

# UNIVERSITATEA NAȚIONALĂ DE ȘTIINȚĂ ȘI TEHNOLOGIE POLITEHNICA DIN BUCUREȘTI

## FIȘA DE ÎNDEPLINIRE A STANDARDELOR MINIMALE PENTRU SUSȚINEREA TEZEI DE ABILITARE

**CANDIDAT: Conferentiar Dr.Ing. Andreea Madalina Pande**  
**Departamentul de Chimie Analitică și Ingineria Mediului**  
**Facultatea de Inginerie Chimică și Biotehnologii**

Condiții	Îndeplinire condiții	
<b>A. Doctor</b>	Diploma de Doctor în domeniul Inginerie Chimică, nr. 371 din 28.07.2014 emisă de Universitatea Politehnică din București în baza Ordinului Ministrului Educației, Cercetării și Tineretului nr. 377 din 15.07.2014.	
<b>B. Îndeplinirea standardelor minime naționale conform OMENCS Nr. 6129 / 20.12.2016 [MO, I, 123 / 15.02.2017]; Comisia CNATDCU Nr. 8</b>	Standarde indeplinite, conform Comisiei CNATDCU Nr. 8, Comisia Inginerie Chimică, Inginerie Medicală, Știința Materialelor Și Nanomateriale Anexată: Fișa de calcul și de susținere a îndeplinirii standardelor minime specifice domeniului, în acord cu realizările menționate:	
<b>Standarde minime și obligatorii</b>	<b>Minim prevăzut</b>	<b>Realizat</b>
Numarul total de articole în reviste ISI situate în top 25% (zona roșie) în calitate de autor principal-NTOP	≥ 4	12 Subanexa 4d-B1
Numarul de articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență) -NP	≥ 20	20 Subanexa 4d-B2
Factorul de impact cumulativ -FIC	≥ 30	156.55 Subanexa 4d-B2
Numarul total de citări (din baza SCOPUS) -NC	≥ 100	2236 Subanexa 4d-B3
Numar contracte de cercetare-dezvoltare-inovare obținute prin competitive la nivel național sau internațional ori contracte de cercetare-dezvoltare-inovare cu terți în valoare minimă echivalentă cu 10.000 Euro-NCO (director/responsabil)	≥ 1 director	2 director Subanexa 4d-B4
<b>C. Indicatorul de Merit (IM)</b>	<b>Minim prevăzut 80 Profesor / CS I</b>	<b>785</b> Subanexa 4d-C1
<b>D. Atestarea studiilor (diploma + supliment diplomă) și a altor realizări profesionale</b>	<b>Diplomă de Master</b> , Specializarea Știința și Ingineria Polimerilor, seria A Nr. 0035736 eliberată în 28.11.2011/Nr. 860 emisă de Universitatea Politehnică din București <b>Diploma de Licență</b> , în profilul <b>Chimie Industrială</b> , specializarea <b>Știința și Ingineria Materialelor</b> , seria B Nr. 0001574 eliberată în 22.01.2010/Nr. 1574 emisă de Universitatea Politehnică din București <b>Certificate de absolvire ale Departamentului pentru Pregătirea Personalului Didactic</b> , Universitatea Politehnică din București, Nivel I (Nr. 298/14.04.2010) și Nivel II (Nr. 2183/10.12.2018)	

Subsemnata Andreea Madalina Pande, Conferentiar universitar la Departamentul de Chimie Analitică și Ingineria Mediului, Facultatea de Inginerie Chimică și Biotehnologii, din Domeniul de Studii Universitare Inginerie Chimică, arondat Comisiei de Specialitate CNATDCU [OMECTS 4106/10.06.2016] Nr 8, Comisia Inginerie chimică, inginerie medicală, știința materialelor și nanomateriale, declar pe propria răspundere, cunoscând prevederile art. 326 Cod Penal privind falsul în declarații, că sunt îndeplinite toate Standardele minime prevăzute de Metodologia Universității Naționale de Știință și Tehnologie POLITEHNICA București pentru susținerea Tezei de Abilitare, și susțin veridicitatea informațiilor prezentate în dosar și în materialul de mai sus. Lucrările considerate a fi indexate WoS [ISI] sau în alte Baze de Date Internaționale [BDI] sunt vizibile în aceste baze, în dreptul numelui candidatului, la această dată.

Candidat,  
Conf. Dr.Ing. Andreea Madalina Pande

Data  
14.11.2025

**ANEXA FIȘA DE ÎNDEPLINIRE A STANDARDELOR MINIMALE PENTRU SUSȚINEREA  
 TEZEI DE ABILITARE**

Subanexa 4d-B1  
 Indicatori de verificare a standardelor NTOP

<b>NTOP</b>		
<b>număr total de articole în reviste ISI situate în top 25% (zona roșie) în calitate de autor principal (prim autor/autor de corespondență) - la data depunerii dosarului (Noiembrie 2025)</b>		
Publicație cu toate elementele de identificare		FI <sub>2024</sub>
01.	MI Necolau, M Ionita, <b>AM Pandele</b> , Poly (propylene fumarate) Composite Scaffolds for Bone Tissue Engineering: Innovation in Fabrication Techniques and Artificial Intelligence Integration, <b>Polymers</b> , 17 (9), 1212, 2025, 10.3390/polym17091212, WOS: 001487576000001, Q1 – <b>Polymer Science</b> cf JCR 2023, IF= 4.9	<b>4.9</b>
02.	V. Satulu <sup>†</sup> , <b>A.M. Pandele<sup>†</sup></b> , G.I. Ionica, L. Bobirică, A. F. Bonciu, A. Scarlatescu, C. Bobirică, Cristina Orbeci, S I. Voicu, B. Mitu, G. Dinescu, Robust CA-GO-TiO2/PTFE Photocatalytic Membranes for the Degradation of the Azithromycin Formulation from Wastewaters, <b>Polymers</b> , 16(10), 1368 (2024), 10.3390/polym16101368, WOS: 001231754500001 Q1 - <b>Polymer Science</b> cf JCR 2023, IF =4.9	<b>4.9</b>
03.	<b>AM Pandele</b> , A Selaru, S Dinescu, M Costache, E Vasile, C Dascălu, MD Raicopol, M Teodorescu, <b>Journal of Materials Chemistry B</b> , 11(34) 8241-8250 (2023), 10.1039/d3tb01232h, Q1 - <b>Materials Science, Biomaterials</b> cf JCR 2023, IF =6.1	<b>6.1</b>
04.	<b>A.M. Pandele</b> , M. Oprea, A. Dutu, F. Miculescu, S.I. Voicu, A Novel Generation of Polysulfone/Crown Ether-Functionalized Reduced Graphene Oxide Membranes with Potential Applications in Hemodialysis, <b>Polymers</b> , 14(1), 148 (2022), 10.3390/polym14010148, WOS: 001046081500001 Q1 - <b>POLYMER SCIENCE</b> cf JCR 2023, IF =4.9	<b>4.9</b>
05.	<b>A.M. Pandele</b> , H. Iovu, C. Orbeci, C. Tuncel, A. Nicolescu, C. Deleanu, S.I. Voicu*, Surface Modified Cellulose Acetate Membranes for the Reactive Retention of Tetracycline, <b>Separation and Purification Technology</b> , 249 (2020) 117145 (9 pagini); 10.1016/j.seppur.2020.117145, WOS: 000540235100012 Q1-Engineering, Chemical (16 din 143), cf JCR 2019, IF =9.	<b>9</b>
06.	E. Vasile <sup>†</sup> , <b>A. M. Pandele<sup>†</sup></b> , C. Andronescu, A. Selaru, S. Dinescu, M. Costache, A. Hanganu, M. D Raicopol, M. Teodorescu, <b>Scientific Reports</b> , 9 (1), 18685 (2019), 10.1038/s41598-019-55081-2, WOS: 000501894800001, Q1 - <b>Multidisciplinary Sciences</b> , cf JCR 2023, IF =3.8	<b>3.8</b>
07.	MD. Raicopol, C. Andronescu, SI. Voicu, E.Vasile, <b>AM Pandele*</b> , Cellulose acetate/layered double hydroxide adsorptive membranes for efficient removal of pharmaceutical environmental contaminants, <b>Carbohydrate Polymers</b> , 214 (2019), 204-2012, (autor de corespondenta, dovada atasata la dosar), 10.1016/j.carbpol.2019.03.042; WOS: 000462586900024 Q1-Chemistry, Applied (3 din 71); Q1 – Chemistry, Organic (2 din 57); Q1-Polymer Science (4 din 89) cf JCR 2019, IF=12.5	<b>12.5</b>
08.	<b>A.M. Pandele</b> , P. Neacsu, A. Cimpean, A.I. Staras, F. Miculescu, A. Iordache, S.I. Voicu*, V.K. Thakur, O.D. Toader, Cellulose acetate membranes functionalized with resveratrol by covalent immobilization for improved Osseointegration, <b>Applied Surface Science</b> , 2018, 438, 2-13, 10.1016/j.apsusc.2017.11.102, WOS: 000425731200002 – Q1 – <b>Materials Science, Coatings and films</b> (1 din 19); Q1 – Physics, Applied (25 din 146), cf JCR 2019, IF=6.9	<b>6.9</b>
09.	<b>A.M. Pandele</b> , C. Andronescu, E. Vasile, L.C. Radu, P. Stanescu, H. Iovu, Non-covalent functionalization of GO for improved mechanical performances of pectin composite films, <b>Composite Part A-Applied Science and Manufacturing</b> , 103(2017), 188-195, 10.1016/j.compositesa.2017.10.005; WOS: 000416497100020 Q1-Engineering, <b>Manufacturing</b> (4 din 50); Q1-Materials Science, Composites (3 din 26), cf JCR 2019, IF=8.9	<b>8.9</b>
10.	<b>A.M. Pandele</b> , M.Ionita, L. Crica, E. Vasile, H. Iovu, Novel Chitosan-poly(vinyl alcohol)/graphene oxide biocomposites 3D porous scaffolds, <b>Composites Part B-Engineering</b> , 126(2017), 81-87, 10.1016/j.compositesb.2017.06.010, WOD: 000407539200008, Q1 – Engineering, Multidisciplinarity (2 din 91); Q1-Materials Science, Composites (1 din 26), cf JCR 2019, IF=14.2	<b>14.2</b>

11.	<b>A.M. Pandele</b> , M. Ionita, L. Crica, D. Dinescu, M. Costache, H. Iovu, Synthesis, characterization, and in vitro studies of graphene oxide/chitosan-polyvinyl alcohol films, <b>Carbohydrate Polymers</b> , 102(2014), 813-820, 10.1016/j.carbpol.2013.10.085; WOS: 000331779600105 Q1-Chemistry, Applied (3 din 71); Q1 – Chemistry, Organic (2 din 57); Q1-Polymer Science (4 din 89) cf JCR 2019, IF=12.5	12.5
12.	M. Ionita, H. Iovu, <b>A.M. Pandele*</b> , Sodium alginate/graphene oxide composite films with enhanced thermal and mechanical properties, <b>Carbohydrate Polymers</b> , 94(2013), 339-344, 10.1016/j.carbpol.2013.01.065, WOS: 000317888500046 autor de corespondenta, dovada atasata la dosar); Q1-Chemistry, Applied (3 din 71); Q1 – Chemistry, Organic (2 din 57); Q1-Polymer Science (4 din 89) cf JCR 2019, IF=12.5	12.5

## ANEXA FIȘA DE ÎNDEPLINIRE A STANDARDELOR MINIMALE PENTRU SUSȚINERE A TEZEI DE ABILITARE

**Factor de impact cumulativ (FIC), calculat în funcție de factorul de impact conform JCR 2024 publicat în  
Iunie 2024, la data depunerii dosarului – NOIEMBRIE 2025**

Subanexa 4d-B2

Indicatori de verificare a standardelor NP și FIC

Articole publicate în calitate de autor principal			
Articol		FI 2024	FIC
1.	MI Necolau, M Ionita, <b>AM Pandele*</b> , Poly (propylene fumarate) Composite Scaffolds for Bone Tissue Engineering: Innovation in Fabrication Techniques and Artificial Intelligence Integration, <b>Polymers</b> , 17 (9), 1212, 2025, 10.3390/polym17091212	4.9	4.9
2.	SI Voicu, E Vasile, A Palla-Papavlu, R Oprea, M Ionita, <b>AM Pandele*</b> , RUO <sub>2</sub> nanoparticle-decorated MWCNTS synthesized using a sonochemical method as reinforcing agents for PEI composite membranes, <b>RSC Advances</b> , 14 (53), 39550-39558 (2024), 10.1039/d4ra07606k	4.6	4.6
3.	V Satulu, <b>A M Pandele</b> , G-I Ionica, L Bobirică, A F Bonciu, A Scarlatescu, C Bobirică, C Orbeci, S I Voicu, B Mitu, G Dinescu, Robust CA-GO-TiO <sub>2</sub> /PTFE Photocatalytic Membranes for the Degradation of the Azithromycin Formulation from Wastewaters, <b>Polymers</b> , 16(10), 1368, 2024, 10.3390/polym16101368	4.9	4.9
4.	<b>A.M. Pandele</b> , A Selaru, S Dinescu, M Costache, E Vasile, C Dascălu, M D Raicopol, M Teodorescu, Synthesis and evaluation of poly (propylene fumarate)-grafted graphene oxide as nanofiller for porous scaffolds, <b>Journal of Materials Chemistry B</b> , 11(34), 8241-8250, 2023, 10.1039/d3tb01232h,	5.8	5.8
5.	<b>A.M. Pandele</b> , M Oprea, A A Dutu, F Miculescu, SI Voicu, A Novel Generation of Polysulfone/Crown Ether-Functionalized Reduced Graphene Oxide Membranes with Potential Applications in Hemodialysis, <b>Polymers</b> , 14(1), 148, 2022, 10.3390/polym14010148, IF=4.9	4.9	4.9
6.	<b>A.M. Pandele</b> , H. Iovu, C. Orbeci, C. Tuncel, A. Nicolescu, C. Deleanu, S.I. Voicu*, Surface Modified Cellulose Acetate Membranes for the Reactive Retention of Tetracycline, <b>Separation and Purification Technology</b> , 249 (2020) 117145 (9 pagini); 10.1016/j.seppur.2020.117145,	9.0	9.0
7.	<b>A.M. Pandele</b> , O.S. Serbanescu, S.I. Voicu, Polysulfone Composite Membranes with Carbonaceous Structure. Synthesis and Applications, <b>Coatings</b> , 2020, 10(7), 609 (27 pagini), 10.3390/coatings10070609,	2.8	2.8
8.	M.I. Necolau, <b>A.M. Pandele*</b> , Recent advances in graphene oxide-based anticorrosive coatings: An overview, <b>Coatings</b> , 10 (2020), 1149 (15 pagini), 10.3390/coatings10121149,	2.8	2.8
9.	<b>A.M. Pandele</b> , A. Constantinescu, I.C. Radu, F. Miculescu, S.I. Voicu, L.T. Ciocan, Synthesis and characterization of PLA – Micro-Structured hydroxyapatite composite films, <b>Materials</b> , 2020, 13(2), 274 (13 pagini), 10.3390/ma13020274	3.8	3.8
10.	E. Vasile <sup>‡</sup> , <b>A.M. Pandele<sup>‡</sup></b> , C. Andronescu, A. Selaru, S. Dinescu, M. Costache, A. Hanganu, MD. Raicopol, M. Teodorescu, Hema-Functionalized Graphene Oxide: a Versatile Nanofiller for Poly(Propylene Fumarate)-Based Hybrid Materials, <b>Scientific Reports</b> , 9 (2019), 18685 (15 pagini), 10.1038/s41598-019-55081-2	3.8	3.8
11.	MD. Raicopol, C. Andronescu, SI. Voicu, E.Vasile, <b>A.M. Pandele*</b> , Cellulose acetate/layered double hydroxide adsorptive membranes for efficient removal of pharmaceutical environmental	12.5	12.5

	contaminants, <b>Carbohydrate Polymers</b> , 214 (2019), 204-212, (autor de corespondenta, dovada atasata la dosar), 10.1016/j.carbpol.2019.03.042,		
12.	<b>A.M. Pandele</b> , P. Neacsu, A. Cimpean, A.I. Staras, F. Miculescu, A. Iordache, S.I. Voicu*, V.K. Thakur, O.D. Toader, Cellulose acetate membranes functionalized with resveratrol by covalent immobilization for improved Osseointegration, <b>Applied Surface Science</b> , 2018, 438, 2-13, 10.1016/j.apsusc.2017.11.102,	6.9	6.9
13.	<b>A.M. Pandele</b> , C. Andronescu, E. Vasile, L.C. Radu, P. Stanescu, H. Iovu, Non-covalent functionalization of GO for improved mechanical performances of pectin composite films, <b>Composite Part A-Applied Science and Manufacturing</b> , 103 (2017), 188-195, 10.1016/j.compositesa.2017.10.005,	9.8	9.8
14.	<b>A.M. Pandele</b> , M. Ionita, L. Crica, E. Vasile, H. Iovu, Novel Chitosan-poly(vinyl alcohol)/graphene oxide biocomposites 3D porous scaffolds, <b>Composites Part B-Engineering</b> , 126 (2017), 81-87, 10.1016/j.compositesb.2017.06.010,	14.2	14.2
15.	<b>A.M. Pandele</b> , M. Ionita, L. Crica, D. Dinescu, M. Costache, H. Iovu, Synthesis, characterization, and in vitro studies of graphene oxide/chitosan-polyvinyl alcohol films, <b>Carbohydrate Polymers</b> , 102 (2014), 813-820, 10.1016/j.carbpol.2013.10.085,	12.5	12.5
16.	M. Ionita, H. Iovu, <b>A.M. Pandele</b> *, Sodium alginate/graphene oxide composite films with enhanced thermal and mechanical properties, <b>Carbohydrate Polymers</b> , 94(2013), 339-344, 10.1016/j.carbpol.2013.01.065,	12.5	12.5
17	<b>A.M. Pandele</b> , C. Andronescu, A. Ghebur, SA Garea, H. Iovu, New biocompatible mesoporous silica/polysaccharide hybrid materials as possible drug delivery systems, <b>Materials</b> , 12 (2019), 15 (14 pagini), 10.3390/ma12010015	3.8	3.8
18.	<b>A.M. Pandele</b> , F.E. Comanici, C.A. Carp, F. Miculescu, S.I. Voicu, V.K. Thakur, B.C. Serban, Synthesis and characterization of cellulose acetate-hydroxyapatite micro and nano composites membranes for water purification and biomedical applications, <b>Vacuum</b> , 2017, 146, 599-605, 10.1016/j.vacuum.2017.05.008	3.9	3.9
19.	<b>A.M.Pandele</b> , M. Ionita, A. Lungu, E. Vasile, C. Zaharia, H. Iovu, Porous chitosan/graphene oxide biocomposites for tissue engineering, <b>Polymer Composites</b> , 38 (2017), 363-370, 10.1002/pc.23594	4.9	4.9
20	<b>A.M. Pandele</b> , S. Dinescu, M. Costache, E. Vasile, C. Obreja, H. Iovu, M. Ionita, Preparation and in vitro, bulk, and surface investigation of chitosan/graphene oxide composite films, <b>Polymer Composites</b> , 34 (2013), 2116 (10 pagini), 10.1002/pc.22620	4.9	4.9
<b>TOTAL FIC autor principal: 129.4</b>			
<b>Articole publicate in calitate de co-autor:</b>			
21.	A. M. Onaş, <b>A. M. Pandele</b> , A. Hanganu, C. V. Florea, H. Iovu, M. D. Raicopol, L. Pilan, Facile preparation of bifunctional monolayers through diazonium grafting and “click” postfunctionalization: A first step towards efficient aptasensing interfaces, <b>Bioelectrochemistry</b> , 163, 108904 (2025), 10.1016/j.bioelechem.2025.108904, WOS: 001399643000001	4.8	0.685
22.	A.C. Mocanu, F. Miculescu, E.S. Dondea, <b>M.A. Pandele</b> , Ș. I. Voicu, A. A. Dobre, G. E Stan, A. Ghebur, L.Toma Ciocan, Induced antibacterial activity of printable composite materials: Influence of the conjoined modulation of ampicillin/hydroxyapatite/graphene nanoplatelets ratios, <b>Ceramic International</b> , 51 (4), 5181-5198 (2025), 10.1016/j.ceramint.2024.11.492, WOS: 001415410100001	5.6	0,622
23.	M Oprea, <b>A M Pandele</b> , A C Nechifor, A I Nicoara, I V Antoniac, A Semenescu, S I Voicu, C I Enachescu, A M Fratila, Improved Biomineralization Using Cellulose Acetate/Magnetic Nanoparticles Composite Membranes, <b>Polymers</b> , 17 (2) 209 (2025), 10.3390/polym17020209, WOS: 001403857600001	4.9	0,544
24.	G. A. Toader, D. I. Mihalache, V. T. Grigorean, E. A. Chiticaru, <b>M. A. Pandele</b> , M. Ionita, Efficient solid-phase extraction of oligo-DNA from complex media using a nitrocellulose membrane modified with carbon nanotubes and aminated reduced graphene oxide, <b>Scientific Reports</b> , 15(1), 5325 (2025), 10.1038/s41598-025-89705-7, WOS: 001421594200023	3.8	0,633
25.	C Pirvu, M. Prodana, C. Dumitru, AG Gheboianu, <b>A.M. Pandele</b> , M Enachescu, GG Vasile, GO Buica, Heavy Metal Ion Detection Using TiO2 Nanotubes and Self-Reduced TiO2	2.5	0,313

	Nanotube Electrodes, <b>Applied Science</b> , 14(24), 11879, 2024, 10.3390/app142411879, WOS: 001385545400001		
26.	M Grinzeanu, OD Orbulet, AM Dancila, C Bobirica, C Modrogan, L Bobirica, <b>M.A. Pandele</b> , Biomimetic Studies on the Antimicrobial Activity of Some Biocides Based on Garlic and Lavender in Surface Waters, <b>Biomimetics</b> , 9(10), 591, 2024, 10.3390/biomimetics9100591, WOS: 001342500800001	3.9	0,557
27.	C Dumitru, <b>A.M. Pandele</b> , MV Mindroiu, OA Lazar, A Popp, M Enachescu, GO Buica, Electrochemical detection of anti-tissue transglutaminase antibody using quantum dots-doped polypyrrole-modified electrode, <b>Microchimica Acta</b> , 191(9), 543, 2024, 10.1007/s00604-024-06620, WOS: 001292884400001	5.3	0,757
28.	C V Florea, G O Buică, <b>M.A Pandele</b> , A M Onaş, ME Voicu, A Hanganu, V Tecuceanu, G-G Vasile, C Devan, R Stan, M D Raicopol, Dual-function sensing platform for Hg (II) based on a redox-active thiosemicarbazone receptor, <b>Journal od Electroanalytical Chemistry</b> , 961, 118251, 2024, 10.1016/j.jelechem.2024.118251, WOS: 001227014000001	4.1	0,372
29.	A Razvan, G T Man, F Dumitru, <b>M. Pandele</b> , R Trusca, L Motelica, O Oprea, G Nechifor, Nanocomposite membranes prepared from cellulose acetate or polysulfone with Ag0 nanoparticles and nitron reagent for nitrate ion removal, <b>Desalination and Water Treatment</b> , 318, 100400, 2024, 10.1016/j.dwt.2024.100400, WOS: 001247441000001	1	0,125
30.	A-C Mocanu, A-E Constantinescu, <b>M-A Pandele</b> , Ş I Voicu, R-C Ciocoiu, D Batalu, A Semenescu, F Miculescu, L-T Ciocan, Biocompatible composite filaments printable by fused deposition modelling technique: selection of tuning parameters by influence of biogenic hydroxyapatite and graphene Nanoplates Ratio, <b>Biomimetics</b> , 9(3), 189, 2024, 10.3390/biomimetics9030189, WOS: 001192013400001	3.8	0,422
31.	A M Onaş, <b>A M Pandele</b> , A Hanganu, C V Florea, G Marton, H Iovu, M D Raicopol, L Pilan, Controlled surface functionalization using aryldiazonium salts with bulky protecting groups for the development of DNA-based sensing platforms, <b>Surfaces and Interfaces</b> , 46, 103855, 2024, 10.1016/j.surfin.2024.103855, WOS: 001172462200001	6.8	0,85
32.	A-G Brotea, O-T Matica, C Musina, <b>A M Pandele</b> , R Trusca, E M Ungureanu, Chemically Modified Electrodes Based on 4-((5-Isopropyl-3, 8-dimethylazulen-1-yl) methylene)-2-phenyloxazol-5 (4H)-one, <b>Symmetry</b> , 16(2), 245, 2024, 10.3390/sym16020245, WOS: 001172520000001	2.2	0,366
33.	A-C Mocanu, F Miculescu, A E Constantinescu, <b>M-A Pandele</b> , Ş I Voicu, A Cîmpean, M Miculescu, A M Negrescu, Selection route of precursor materials in 3D printing composite filament development for biomedical applications, <b>Materials</b> , 16(6), 2359, 2023, 10.3390/ma16062359, WOS: 000958878300001	3.8	0,475
34.	M Oprea, <b>A M Pandele</b> , A I Nicoara, A Nicolescu, C Deleanu, S I Voicu, Crown ether-functionalized cellulose acetate membranes with potential applications in osseointegration, <b>International Journal of Biological Macromolecules</b> , 230, 123162, 2023, WOS: 000922684900001	8.5	1,417
35.	A-G Brotea, O-T Matica, C Musina, M Cristea, A Stefaniu, <b>A-M Pandele</b> , E-M Ungureanu, Advanced Materials Based on Azulenyl-Phenyloxazolone, <b>Symmetry</b> , 15(2), 540, 2023, 10.3390/sym15020540, WOS: 000942058400001	2.2	0,314
36.	E.R Radu, <b>AM Pandele</b> , C Tuncel, F Miculescu, S Voicu, Preparation and characterization of chitosan/LDH composite membranes for drug delivery application, <b>Membranes</b> , 13(2), 179, 2023, 10.3390/membranes13020179, WOS: 000940595000001	3.6	0,720
37.	L T Ciocan A-C Mocanu, F Miculescu, C-A Dascălu, Ş I Voicu, <b>M-A Pandele</b> , R-C Ciocoiu, D Batalu, S Dondea, V Mitran, Influence of Ceramic Particles Size and Ratio on Surface—Volume Features of the Naturally Derived HA-Reinforced Filaments for Biomedical Applications, <b>Journal of Functional Biomaterials</b> , 13(4), 199, 2022, 10.3390/jfb13040199, WOS: 000901197100001	5.2	0,520
38.	O S Serbanescu, <b>A M Pandele</b> , M Oprea, A Semenescu, V K Thakur, S I Voicu, Crown ether-immobilized cellulose acetate membranes for the retention of Gd (III), <b>Polymers</b> , 13(22), 3978, 2021, 10.3390/polym13223978, WOS: 000724513100001	4.9	0,98
39.	A-C Mocanu, F Miculescu, G E Stan, <b>A-M Pandele</b> , M A Pop, R C Ciocoiu, Ş I Voicu, L T Ciocan, Fiber-templated 3D calcium-phosphate scaffolds for biomedical applications: the role of the thermal treatment ambient on physico-chemical properties, <b>Materials</b> , 14(9), 2198, 2021, 10.3390/ma14092198, WOS: 000650579700001	3.8	0,475

40.	A.C.Mocanu, F.Miculescu, M.Miculescu, R. C.Ciocoiu, <b>A.M. Pandele</b> , G. E Stan, A.Cîmpean, Ș. I.Voicu, L.-T. Ciocan, Comprehensive analysis of compatible natural fibre as sacrificial porogen template for tailored ceramic 3D bioproducts destined for hard tissue reconstruction, <i>Ceramics International</i> , 2021, <b>Ceramic International</b> , 47(2021), 5318-5334, 10.1016/j.ceramint.2020.10.113, WOS: 000608672000001	5.6	0,622
41.	M.D. Raicopol, <b>A.M. Pandele</b> , C. Dascalu, E. Vasile, A. Hanganu, GG. Vasile, IG. Bugean, C. Pirvu, G. Stanciu, GO Buica, Improving the voltammetric determination of hg(II): A comparison between ligand-modified glassy carbon and electrochemically reduced graphene oxide electrodes, <b>Sensors</b> , 20 (2020), 6799, (18 pagini), 10.3390/s20236799, WOS: 000597546100001	3.4	0,340
42.	MD. Raicopol, NA. Chira, <b>A.M. Pandele</b> , A. Hanganu, AA Ivanov, V. Tecuceanu, IG Bugean, GO Buica, Electrodes modified with clickable thiosemicarbazone ligands for sensitive voltammetric detection of Hg(II) ions, <b>Sensors and Actuators B-Chemical</b> , 313(2020), 128030 (10 pagini), 10.1016/j.snb.2020.128030, WOS: 000526287200011	7.7	0,962
43.	CM Simonescu, V. Lavric, A. Musina, OM Antonescu, DC. Culita, V. Marinescu, C. Tardei, O Oprea, <b>A.M. Pandele</b> , Experimental and modeling of cadmium ions removal by chelating resins, <b>Journal of Molecular Liquid</b> , 307(2020), 112973, 10.1016/j.molliq.2020.112973, WOS: 000536900800019	5.2	0,577
44.	O.S. Serbanescu, <b>A.M. Pandele</b> , F. Miculescu, SI. Voicu, Synthesis and characterization of cellulose acetate membranes with self-indicating properties by changing the membrane surface color for separation of Gd(III), <b>Coatings</b> , 10(2020), 468, (15 pagini), 10.3390/coatings10050468, WOS: 000541770900031	2.8	0,700
45.	C. Modrogan, <b>A.M. Pandele</b> , C. Bobirica, D. Dobrota, AM. Dancila, G. Garleanu, OD Orbulet, C. Borda, D. Garleanu, C. Orbeci, Synthesis, characterization and sorption capacity examination for a novel hydrogel composite based on gellan gum and graphene oxide (GG/GO), <i>Polymers</i> , 12(2020), 1182 (20 pagini), 10.3390/polym12051182, WOS: 000541431100187	4.9	0,490
46.	CA.Dascalu, F.Miculescu, A. E. Constantinescu, T. M. Butte, <b>A. M. Pandele</b> , RC Ciocoiu, S I. Voicu, L.T. Ciocan, Novel synthesis of core-shell biomaterials from polymeric filaments with a bioceramic coating for biomedical applications, <b>Coatings</b> , 2020, 10(3), 283, (18 pagini), 10.3390/coatings10030283, WOS: 000524211800088	2.8	0,350
47.	A. Muhulet, C. Tuncel, F. Miculescu, <b>A.M. Pandele</b> , C. Bobirica, C. Orbeci, L. Bobirica, A.PallaPapavlu, S.I. Voicu, Synthesis and characterization of polysulfone-TiO <sub>2</sub> decorated MWCNT composite membranes by sonochemical method, <b>Applied Physics A</b> , 2020, 126(3), 233, (9 pagini), 10.1007/s00339-020-3408-9, WOS: 000516564000001	2.7	0,300
48.	GM. Vlasceanu, LE Crica, <b>AM Pandele</b> , M. Ionita, Graphene oxide reinforcing genipin crosslinked chitosan-gelatin blend films, <b>Coatings</b> , 10 (2020), 189, (15 pagini), 10.3390/coatings10020189, WOS: 000522487300099	2.8	0,700
49.	C.A. Dascalu, A. Maidaniuc, <b>A.M. Pandele</b> , SI. Voicu, T. Machedon-Pisu, GE Stan, A. Cimpeanu, V. Mitran, IV. Antoniac, F. Miculescu, Synthesis and characterization of biocompatible polymer-ceramic film structures as favorable interface in guided bone regeneration, <b>Applied Surface Science</b> , 494 (2019), 335-352, 10.1016/j.apsusc.2019.07.098, WOS: 000487838900040	6.9	0,690
50.	V. Satulu, B. Mitu, <b>A.M. Pandele</b> , S.I. Voicu, L. Kravets, G. Dinescu, Composite polyethyleneterephthalate track membranes within teflon-like layers: Preparation and surface properties, <b>Applied Surface Science</b> 476 (2019) 452–459, doi: 10.1016/j.apsusc.2019.01.109., WOS: 000459458600053	6.9	1,150
51.	DF. Enache, E. Vasile, CM Simonescu, D. Culita, E. Vasile, O. Oprea, <b>AM. Pandele</b> , A. Razvan, F. Dumitru, G. Nechifor, Schiff base-functionalized mesoporous silicas (MCM-41, HMS) as Pb(ii) adsorbents, <b>RCS Advances</b> , 8 (2018), 176-189, 10.1039/c7ra12310h, WOS: 000419187600021	3.9	0,390
52.	P. Neacsu, A. I. Staras, S. I. Voicu, I. Ionascu, T. Soare, S. Uzun, V. D. Cojocar, <b>A. M. Pandele</b> , S. M. Croitoru, F. Miculescu, C. M. Cotrut, I. Dan, A.Cimpean, Characterization and In Vitro and In Vivo Assessment of a Novel Cellulose Acetate-Coated Mg-Based Alloy for Orthopedic Applications, <i>Materials</i> , 2017, 10, 686 (20 pagini), doi:10.3390/ma10070686, WOS: 000406668300003	3.8	0,292
53.	NV. Voicu, LE Crica, <b>A.M. Pandele</b> , CM Damian, E. Vasile, M. Ionita, Graphene oxide reinforced gelatin-poly(vinyl alcohol) porous composites for biomedical applications, <b>Materiale Plastice</b> , 53 (2016), 399-405, WOS: 000384870300013	0.6	0,100

54.	M. Ionita, LE Crica, E. Vasile, S. Dinescu, <b>M.A. Pandele</b> , M. Costache, HJ. Haugen, H. Iovu, Effect of carboxylic acid functionalized graphene on physical-chemical and biological performances of polysulfone porous films, <b>Polymer</b> , 92 (2016), 1-12, 10.1016/j.polymer.2016.03.040, WOS: 000374817900001	4.9	0,612
55.	M. Ionita, <b>A.M. Pandele</b> , LE Crica, AC Obreja, Preparation and characterization of polysulfone/ammonia-functionalized graphene oxide composite membrane material, <b>High Performance Polymers</b> , 28 (2016), 181-188, 10.1177/0954008315576233, WOS: 000370420300007	1.8	0,450
56.	M. Ionita, L.E. Crica, S.I. Voicu, <b>A.M. Pandele</b> , H. Iovu, Fabrication of Cellulose Triacetate/Graphene Oxide Porous Membrane, <b>Polymers for Advanced Technologies</b> , 2016, 27(3), 350-357, DOI: 10.1002/pat.3646, WOS: 000369874300009	3.1	0,620
57.	MD. Ionita, S. Vizireanu, SD Stoica, M. Ionita, <b>A.M. Pandele</b> , A. Cucu, I. Stamatina, LC Nistor, G. Dinescu, Functionalization of carbon nanowalls by plasma jet in liquid treatment, <b>European Physical Journal D</b> , 70 (2016), 31, (7 pagini), 10.1140/epjd/e2016-60499-8, WOS: 000375213300002	1.5	0,166
58.	M. Ionita, E. Vasile, L.E. Crica, S.I. Voicu, <b>A.M. Pandele</b> , S. Dinescu, L. Predoiu, B. Galateanu, A. Hermenean, M. Costache, Synthesis, characterization and in vitro studies of polysulfone/graphene oxide composite membranes, <b>Composites Part B-Engineering</b> , 2015, 72, 108-115, DOI: 10.1016/j.compositesb.2014.11.040, WOS: 000349729300013	14.2	1,420
59.	M. Ionita, <b>A.M. Pandele</b> , L. Crica, L. Pilan, Improving the thermal and mechanical properties of polysulfone by incorporation of graphene oxide, <b>Composites Part B-Engineering</b> , 59 (2014), 133-139, 10.1016/j.compositesb.2013.11.018, WOS: 000331019700015	14.2	3,55
60.	S. Dinescu, M. Ionita, <b>A.M. Pandele</b> , B. Galateanu, H. Iovu, A. Ardelean, M. Costache, A. Hermenean, In vitro cytocompatibility evaluation of chitosan/graphene oxide 3D scaffold composites designed for bone tissue engineering, <b>Bio-Medical Materials and Engineering</b> , 24 (2014), 2249-2256, 10.3233/BME-141037, WOS: 000343005700040	1	0,125
61.	S.I. Voicu, <b>M.A. Pandele</b> , E. Vasile, R. Rughinis, L. Crica, L. Pilan, M. Ionita The impact of sonication time through polysulfone/graphene oxide composite films properties, <b>Digest Journal of Nanomaterials and Biostructures</b> , 2013, 8(4), 1389-1394, WOS: 000327818000005	1	0,143
62.	I. Aprodu, I. Banu, A. Istrate, E. Vasile, <b>A.M. Pandele</b> , E. Vasile, M. Ionita, Molecular dynamics analysis of bone morphogenetic protein-2 conformations and mechanical properties, <b>Digest Journal of Nanomaterials and Biostructures</b> , 8 (2013), 81-87, WOS: 000316441200009	1	0.143
63.	CM. Damian, <b>A.M. Pandele</b> , C. Andronescu, A. Ghebur, SA Garea, H. Iovu, Epoxy-based nanocomposites reinforced with new amino functionalized multi-walled carbon nanotubes, <b>Fullerenes Nanotubes and Carbon Nanostructures</b> , 19 (2011), 197-209, 10.1080/15363831003721773, WOS: 000287031600004	2.1	0,350
64.	C.M. Petrea, C. Andronescu, <b>A.M. Pandele</b> , SA Garea, H Iovu, Epoxy-based nanocomposites with amine modified single walled carbon nanotubes, <b>e-Polymers</b> , 020, 2010, (10 pagini), WOS: 000275228900001	3.2	0,640
65.	C.M. Petrea, C. Andronescu, <b>A.M. Pandele</b> , SA Garea, H. Iovu, Advanced characterization of modified carbon nanotubes epoxy-based composites, <b>Materiale Plastice</b> , 45 (2008), 320-325, WOS: 000262600800004	0.6	0,120
<b>TOTAL FIC co-autor: 27.149</b>			
<b>TOTAL FIC autor principal, co-autor: 156.45</b>			

# ANEXA FIȘA DE ÎNDEPLINIRE A STANDARDELOR MINIMALE PENTRU SUSȚINERE A TEZEI DE ABILITARE

Număr total de citări din baza SCOPUS (NC)

Lista a fost realizată în conformitate cu prevederile OMENCS nr. 6129/20.12.2016; MO, I, 123/15.02.2017; Comisia CNATDCU Nr. 8. Au fost utilizate doar citările indicate de baza de date Scopus. Au fost excluse autocitările candidatului. Citarile sunt prezentate la nivelul lunii NOIEMBRIE 2025.

Subanexa 4d-B3  
Indicatori de verificare NC

M Oprea, A M Pandelescu, A C Nechifor, A I Nicoara, I V Antoniac, A Semenescu, S I Voicu, C I Enachescu, A M Fratila, Improved Biomineralization Using Cellulose Acetate/Magnetic Nanoparticles Composite Membranes, <i>Polymers</i> , 17 (2) 209 (2025), 10.3390/polym17020209	
1.	Panaitescu T.G., Niculescu AG, Grumezescu V, Costachescu B, Birca AC, Nanostructured Coatings for Spinal Fixation Screws: A Dual-Function Approach Against Biofilm Formation and Implant Failure, <i>Coating</i> , 2025, 10.3390/coatings15050584
2.	James A., Rahman MdR., Mohamed Said K.A. bin, Namakka M., Shahabuddin M., Al-Saleem M. S.M., Al-Humaidi J.Y., Rahman M.M., Salam M.A., Surface organization of aptamers via diazonium grafting: A key parameter in label-free electrochemical sensing, <i>RSC Advances</i> , 2025, 15(38), 31471-31497
3.	Nasrabadi H.N., Robu A., Ciocoiu R., Ciuca S., Fratila A.M., Evaluation of surface properties in 316L stainless steel orthopedic implants, <i>UPB Scientific Bulletin Series B Chemistry and Materials Science</i> , 2025, 87(2), 187-200
A. M. Onaş, A. M. Pandelescu, A. Hanganu, C. V. Florea, H. Iovu, M. D. Raicopol, L. Pilan, Facile preparation of bifunctional monolayers through diazonium grafting and “click” postfunctionalization: A first step towards efficient aptasensing interfaces, <i>Bioelectrochemistry</i> , 163, 108904 (2025), 10.1016/j.bioelechem.2025.108904	
1.	Lupoi T., Feier B., Geneste F., Cristea C., Leraux YR., Surface organization of aptamers via diazonium grafting: A key parameter in label-free electrochemical sensing, <i>Electrochemistry Communications</i> , 2025, 178, 108000
T.E. Petcov, V.V. Silberschmidt, M.A. Pandelescu, E.A. Chiticaru, M. Ionita, M. Manole, Nanostructures: An efficient drug delivery platform for therapy of multiple myeloma, <i>European Journal of Medical Chemistry Reports</i> , 2025, 14, Article Number 100263, 10.1016/j.ejmcr.2025.100263	
1.	Parvin N., Aslam M., Joo S.W., Mandal T.K., Nano-Phytomedicine: Harnessing Plant-Derived Phytochemicals in Nanocarriers for Targeted Human Health Applications, <i>Molecules</i> , 30 (17), 3177, 2025
M Grinzeanu, OD Orbuliet, AM Dancila, C Bobirica, C Modrogan, L Bobirica, M.A. Pandelescu, Biomimetic Studies on the Antimicrobial Activity of Some Biocides Based on Garlic and Lavender in Surface Waters, <i>Biomimetics</i> , 9(10), 591, 2024, 10.3390/biomimetics9100591	
1.	Gharibeh S., Engineered ZnFe <sub>2</sub> O <sub>4</sub> /SiO <sub>2</sub> nanoparticles for targeted methotrexate delivery: Synthesis, characterization, and controlled release kinetics <i>Inorganic Chemistry Communications</i> , 2025, 180, 115108
C Pirvu, M. Prodana, C. Dumitru, AG Gheboianu, AM Pandelescu, M Enachescu, GG Vasile, GO Buica, Heavy Metal Ion Detection Using TiO <sub>2</sub> Nanotubes and Self-Reduced TiO <sub>2</sub> Nanotube Electrodes, <i>Applied Science</i> , 14(24), 11879, 2024, 10.3390/app142411879	
1.	Ameen S, Highly Dense TiO <sub>2</sub> Nanorods as Potential Electrode Material for Electrochemical Detection of Multiple Heavy Metal Ions in Aqueous Medium, <i>Micromachines</i> , 2025, 10.3390/mi16030275
C Dumitru, AM Pandelescu, MV Mindroiu, OA Lazar, A Popp, M Enachescu, GO Buica, Electrochemical detection of anti-tissue transglutaminase antibody using quantum dots-doped polypyrrole-modified electrode, <i>Microchimica Acta</i> , 191(9), 543, 2024, 10.1007/s00604-024-06620	
1.	Aydin EB, Aydin M, Sezgenturk MK, Celiac disease biomarker quantification in human fluid microenvironment: A selective and ultrasensitive magnetosensing immunoplatfrom, <i>Sensors and Actuators B Chemical</i> , 2025, 10.1016/j.snb.2025.137504
2.	Paun AG, Popescu S, Ungureanu AI, Trusca R, Poop A, Anti-Tissue-Transglutaminase IgA Antibodies Presence Determination Using Electrochemical Square Wave Voltammetry and Modified Electrodes Based on Polypyrrole and Quantum Dots, <i>Biosensors</i> , 2025, 10.3390/bios15010042
C V Florea, G O Buică, M A Pandelescu, A M Onaş, ME Voicu, A Hanganu, V Tecuceanu, G-G Vasile, C Devan, R Stan, M D Raicopol, Dual-function sensing platform for Hg (II) based on a redox-active thiosemicarbazone receptor, <i>Journal of Electroanalytical Chemistry</i> , 961, 118251, 2024, 10.1016/j.jelechem.2024.118251	
1.	Levanen G., Razan F., Bretin S., Betelu S., Michel K, Electrochemical detection of lead, cadmium, and mercury with selective preconcentration on ligand-modified electrodes, <i>Journal of Electroanalytical Chemistry</i> , 2025, 991, 119189, 10.1016/j.jelechem.2025.119189
2.	Cyniak J., Kasprzak A., Mechanochemical Synthesis of Molecular Chemoreceptors, <i>ACS Omega</i> , 2025, 95(5), 48870-48883, 10.1021/acsomega.4c06566
V Satulu, A M Pandelescu, G-I Ionica, L Bobirică, A F Bonciu, A Scarlatescu, C Bobirică, C Orbeci, S I Voicu, B Mitu, G Dinescu, Robust CA-GO-TiO <sub>2</sub> /PTFE Photocatalytic Membranes for the Degradation of the Azithromycin Formulation from Wastewaters, <i>Polymers</i> , 16(10), 1368, 2024, 10.3390/polym16101368	

1.	Khyave AE, Mafigholmi , Davood A, Mahvi A, Salimi L., Photocatalytic degradation of azithromycin and ceftriaxone using synthesized Ag/g-C3N4/Fe3O4 nanocomposites in aqueous solution, <i>Scientific Reports</i> , 2025, 15(1), 18726, 10.1038/s41598-025-00149-5
2.	Han X, Jin Y, Zhao L, Zhang Y, Ren B, Molecularly Imprinted Titanium Dioxide: Synthesis Strategies and Applications in Photocatalytic Degradation of Antibiotics from Marine Wastewater: A Review, <i>Materials</i> , 18(9), 2161, 2025, 10.3390/ma18092161
3.	Satalu V, Kravets L, Orelovich OL, Mitu B, Dinescu G, High-Performance PET-TM/PTFE-like Composite Membranes for Efficient Salt Rejection via Air Gap Membrane Distillation, <i>Polymers</i> , 2025, 17(3), 290, 10.3390/polym17030290
4.	Singh V, Samanta SK, Magnetic graphene oxide-zinc oxide nanocomposite for enhanced photocatalytic degradation of azithromycin under normal sunlight, <i>Journal of Environmental Management</i> , 2024, 370, 122571, 10.1016/j.jenvman.2024.122571
5.	Popovic M, Morovic S, Kovacic M, Kosutic K, Pharmaceutical Removal with Photocatalytically Active Nanocomposite Membranes, <i>Membranes</i> , 2024, 14(11), 239, 10.3390/membranes14110239
6.	Primc G, Mozetic M, Plasma Treatment of Nanocellulose to Improve the Surface Properties, <i>Polymers</i> , 2024, 16(17), 2516, 10.3390/polym16172516
7.	Nannou C, Maroulas K, Tsamtzidou C, Ladomenou K, Kyzas KG, Photocatalytic degradation of veterinary antibiotics in wastewaters: A review, <i>Science of Total Environment</i> , 2025, 966, 178765, 10.1016/j.scitotenv.2025.178765
8.	Rashid S., Ilyas H., Siddiq M., Ha K., Han C., Development, Characterization, and Evaluation of Hydrophilic and Self-Cleaning Composite Membranes for Treating Waters Contaminated with 4-Nitrophenol and Dyes, <i>Journal of Environmental Engineering United States</i> , 2025, 151(9), 04025051
A Razvan, G T Man, F Dumitru, <b>M Pandele</b> , R Trusca, L Motelica, O Oprea, G Nechifor, Nanocomposite membranes prepared from cellulose acetate or polysulfone with Ag0 nanoparticles and nitron reagent for nitrate ion removal, <b>Desalination and Water Treatment</b> , 318, 100400, 2024, 10.1016/j.dwt.2024.100400	
1.	Stamer K, Baltaeva M, Manakhov A, Orlov M, Ayirala S, Polystyrene waste-derived ion-exchange resins for water desalination, <i>Materials Chemistry and Physics</i> , 2025, 339, 130548, 10.1016/j.matchemphys.2025.130548
2.	Albu PC, Pirtac A, Matelica L, Nechifor AC, Man GT, Reduction in Olfactory Discomfort in Inhabited Premises from Areas with Mofettas through Cellulosic Derivative–Polypropylene Hollow Fiber Composite Membranes, <i>Materials</i> , 2024, 17(17), 4437, 10.3390/ma17174437
A-C Mocanu, A-E Constantinescu, <b>M.A Pandele</b> , Ş I Voicu, R-C Ciocoiu, D Batalu, A Semenescu, F Miculescu, L-T Ciocan, Biocompatible composite filaments printable by fused deposition modelling technique: selection of tuning parameters by influence of biogenic hydroxyapatite and graphene Nanoplates Ratio, <b>Biomimetics</b> , 9(3), 189, 2024, 10.3390/biomimetics9030189	
1.	Sanchez GC, Perez Jimenez A, Malve M, Diaz Jimenez C, Effect of Annealing on the Mechanical Properties of Composites of PLA Mixed with Mg and with HA, <i>Polymers</i> , 2025, 17(9), 1207, 10.3390/polym17091207
2.	Prashanth KP, Rudresh M, Venlatesh N, Shivarathri PG, Rajappa S, Revolutionizing Biodegradable and Sustainable Materials: Exploring the Synergy of Polylactic Acid Blends with Sea Shells, <i>Journal of Renewable Materials</i> , 2024, 12(12), pp. 2115–2134, 10.32604/jrm.2024.055437
3.	Mocanu A.C., Printable PLA-based products functionalized for antimicrobial features and destined for biomedical applications <i>Functionalized Materials Applications in Biomedicine</i> , pp 59-84, 2025
A M Onaş, <b>A M Pandele</b> , A Hanganu, C V Florea, G Marton, H Iovu, M D Raicopol, L Pilan, Controlled surface functionalization using aryldiazonium salts with bulky protecting groups for the development of DNA-based sensing platforms, <b>Surfaces and Interfaces</b> , 46, 103855, 2024, 10.1016/j.surfin.2024.103855	
1.	Arjmand F, Chali A., Snoussi Y., Troadec D., Patriarche G., Perriere L., Cauzinie JP, Peroni E., Monasson O., Boissiere M., In-situ chemical grafting of aminophenyl and RGD peptide on an equimolar high-entropy HfNbTaTiZr alloy: electrochemical behavior and surface characterization, <i>Emergent Materials</i> , 8(1), 2025, 537-559, 10.1007/s42247-024-00963-z
2.	Ges A., Viltres H., Castro A., Ladame S., Morales J.O., Advancing electrochemical nanobiosensors for gastric cancer diagnostics: Engineering challenges and clinical integration toward mHealth applications, <i>Talanta</i> , 2026, 296, 128451
A-G Brotea, O-T Matica, C Musina, <b>A M Pandele</b> , R Trusca, E M Ungureanu, Chemically Modified Electrodes Based on 4-((5-Isopropyl-3, 8-dimethylazulen-1-yl) methylene)-2-phenyloxazol-5 (4H)-one, <b>Symmetry</b> , 16(2), 245, 2024, 10.3390/sym16020245	
1.	Cristea M. Razus A.C., Shova S., Raduca M., Dumitrascu F., (Z)-4-(Azulen-1-ylmethylene)-2-phenyloxazol-5(4H)-one, <i>Molbank</i> , 2025, M2006
2.	Raduca M., Popa M.M., Cristea M., Razus A.C., Dumitrascu F., CRYSTAL STRUCTURE AND HIRSHFELD SURFACE ANALYSIS OF (Z)-4((5-ISOPROPYL-3,8-DIMETHYLAZULEN-1-YL)METHYLENE)-2-PHENYLOXAZOL-5(4H)-ONE, <i>Revue Roumaine De Chimie</i> , 2025, 70(5-6), 345-350
<b>A.M. Pandele</b> , A Selaru, S Dinescu, M Costache, E Vasile, C Dascălu, M D Raicopol, M Teodorescu, Synthesis and evaluation of poly (propylene fumarate)-grafted graphene oxide as nanofiller for porous scaffolds, <b>Journal of Materials Chemistry B</b> , 11(34), 8241-8250, 2023, 10.1039/d3tb01232h	
1.	Haung X., Chen J., Ma R., Wang J., Teng Y., Poly(propylene fumarate)/hydroxyapatite nanocomposite/black phosphorus nanosheet phosphate composites for enhanced bone repair, <i>Journal of Orthopaedic Surgery and Research</i> , 2025, 20(1), 721

M Oprea, A M Pandeale, A I Nicoara, A Nicolescu, C Deleanu, S I Voicu, Crown ether-functionalized cellulose acetate membranes with potential applications in osseointegration, <b>International Journal of Biological Macromolecules</b> , 230, 123162, 2023	
1.	Ouradi A., Cherifi N., Afir Y., Bouta C., Bencherik R., Benaboura A., Filler effect on properties of polymethyl methacrylate-based membranes for hemodialysis application <i>Journal of Polymer Research</i> , 32(4), 146, 2025, 10.1007/s10965-025-04345-9
2.	Wu S., Yang H., Liang G., Sun X., Development of L-Met functionalized cellulose nanofiber for an efficient removal of Pb <sup>2+</sup> from aqueous solution: Characterization, adsorption behavior, DFT calculations and physicochemical mechanism, <i>International Journal of Biological Macromolecules</i> , 2025, 292, 139180, 10.1016/j.ijbiomac.2024.139180
3.	Jiang W., Tang M., Lin X., Yang C., Lian D., Yu Y., Liu D., Microwave Irradiation-Assisted Synthesis of Anisotropic Crown Ether-Grafted Bamboo Pulp Aerogel as a Chelating Agent for Selective Adsorption of Heavy Metals (Mn <sup>+</sup> ), <i>Gels</i> , 10 (12), 778, 2024, 10.3390/gels10120778
4.	Buhal V., Badaraev A D., Tran T H, Kozelskaya AI, Frueh J., Tverdokhlebov SI, Rutkowski S., Deposition of cellulose acetate coatings on titanium substrates by electrospraying for biomedical applications, <i>Surface and Coating Technology</i> , 494, 2024, 131472, 10.1016/j.surfcoat.2024.131472
5.	Rattana-arporn P, Poompradub S., Polyethersulfone/silica composite membrane for desalination, <i>Separation and Purification Technology</i> , 2024, 345, 127395, 10.1016/j.seppur.2024.127395
6.	Hu, Y., Lu L., Wu Y., Li Y., Wang F., Chen X., Fu H., She Y., Bifunctional ratiometric fluorescent membrane containing pyrene-based probe for visual monitoring and efficient removal of Al <sup>3+</sup> , <i>Sensors and Actuators B: Chemical</i> , 2024, 413, 135860, 10.1016/j.snb.2024.135860
7.	Lin L., Zhu S., Chen Y., He X., Zhou R., Zhang J., Synthesis and characterization of bagasse cellulose-based quaternary ammonium peroxyphosphotungstate and their catalytic properties for cyclohexene oxidation in the absence of any solvent, <i>International Journal of Biological Macromolecules</i> , 2024, 274, 133549, 10.1016/j.ijbiomac.2024.133549
8.	Zhang C., Liang W., Duo B. Zhu Y., Yan N., Zhang Y., Salleh S., Bin F, Application insights of environmental catalysts: Synergistic effects of cellulose-based porogens and catalytic metal sites in toluene catalytic oxidation, <i>Fuel</i> , 2024, 367, 131402, 10.1016/j.fuel.2024.131402
9.	Souza SS, Gomes AR, guimaraes ATB, Matos LP, Mendonca J, Luz TM, Matos SGS, Rodrigues ASL, Senthil-Nathan S., Rabib MRJ, Exposure to microcrystallized cellulose affects the health of tadpoles and sheds light on the threat these materials pose to amphibians, <i>Environmental Pollution</i> , 2024, 343, 123236, 10.1016/j.envpol.2023.123236
10.	Saurav S., Sharma P., Kumar A., Tabassum Z., Girdhar M., Mamidi N., Mohan A, Harnessing Natural Polymers for Nano-Scaffolds in Bone Tissue Engineering: A Comprehensive Overview of Bone Disease Treatment, <i>Current Issues in Molecular Biology</i> , 2024, 46(1), 585-611, 10.3390/cimb46010038
11.	Oprea M., Voicu SI., Cellulose acetate-based membranes for the removal of heavy metals from water in the context of circular economy, <i>Industrial Crops and Products</i> , 2023, 206, 117716, 10.1016/j.indcrop.2023.117716
12.	Oprea M., Voicu SI, Cellulose Acetate-Based Materials for Water Treatment in the Context of Circular Economy, <i>Water (Switzerland)</i> , 2023, 15(10), 1860, 10.3390/w15101860
13.	Radu E.R, Voicu SI, Thakur V.K., Polymeric Membranes for Biomedical Applications, <i>Polymers</i> , 2023, 15(3), 619, 10.3390/polym15030619
14.	Afzal A., Iqbal N., Rafique MS, Ferrite-SCNTs Composite (ZFS) Embedded Nanostructured Cellulose Acetate Membranes-A Promising Sulphate Salts Rejecting Tool. Synthesis and Characterizations, <i>Journal of Nano Research</i> , 2023, 80, 21-36, 10.4028/p-wrtD3s
E.R Radu, AM Pandeale, C Tuncel, F Miculescu, S Voicu, Preparation and characterization of chitosan/LDH composite membranes for drug delivery application, <b>Membranes</b> , 13(2), 179, 2023, 10.3390/membranes13020179	
1.	Shi B., Fu X., Li H., Jamshed M., Yu Q, Li M., Yang H., Fe-saturated polyaniline adsorbent repurposed for carboxylic acid drugs removal: A sustainable strategy from ferric waste to water remediation, <i>Separation and Purification Technology</i> , 2025, 371, 1333359, 10.1016/j.seppur.2025.133359
2.	Zhao P., Xia X, Xiao Y, Ye Q, Wu H., Zhu R., Chen J, Qui X., Preparation of quaternary layered double hydroxides from coal gangue and phosphorus tailings for immobilizing Cr(VI) and Cd(II) in contaminated soil, <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2025, 723, 137340, 10.1016/j.colsurfa.2025.137340
3.	Nguyen TC, Nguyen TTT, Do QT, Nguyen DB, Tran TM, Tran LC, Nguyen TA, Thai H., Optimizing the synthesis of hydroxycalcite-silver nanoparticles- <i>Allium tuberosum</i> L. hybrid material and its application in chitosan membranes, <i>Inorganic Chemistry Communications</i> , 2025, 178, 114535, 10.1016/j.inoche.2025.114535
4.	Khorasani M.A., Naghib SM, A review of chitosan-based multifunctional nanocomposites for drug/gene/protein delivery and gene therapy in cancer treatments: Promises, challenges and outlooks, <i>International Journal of Biological Macromolecules</i> , 2025, 306, 141394, 10.1016/j.ijbiomac.2025.141394
5.	Rashtiani A., Ghorbani-Vaghei R., Larimi-Nami R., Karakaya, Pd anchored to layered double hydroxide modified with chitosan and <i>Echinophora platyloba</i> extract as a nanocatalyst for the formylation of aryl iodides with formic acid, <i>International Journal of Biological Macromolecules</i> , 2024, 283, 137687, 10.1016/j.ijbiomac.2024.137687
6.	Yadav H., Malviya R., Kaushk N., Chitosan in biomedicine: A comprehensive review of recent developments, <i>Carbohydrate Polymer Technologies and Applications</i> , 2024, 8, 100551, 10.1016/j.carpta.2024.100551
7.	Chicea D., Nicolae-Maranciuc A., A Review of Chitosan-Based Materials for Biomedical, Food, and Water Treatment Applications <i>Materials</i> , 17(23) 5770, 2024, 10.3390/ma17235770

8.	Bao J., Zhang J., Tian Y., Xu H., Zheng L., Bai L., Liu Y., Improving humidity sensor performance through phenylphosphonic acid-intercalated layered double hydroxide, <i>Materials Science in Semiconductor Processing</i> , 2024, 183, 108753, 10.1016/j.mssp.2024.108753
9.	Mohd Affandy M.A., Rovina K., Characterization of chitosan derived from mushroom sources: Physicochemical, morphological, thermal analysis, <i>Sustainable Chemistry and Pharmacy</i> , 2024, 40, 101624, 10.1016/j.scp.2024.101624
10.	Man GT, Albu PC., Nechifor AC, Grosu AR, Popescu DI, Grosu VA, Marinescu VE, Nechifor G., Simultaneously Recovery of Thorium and Tungsten through Hybrid Electrolysis–Nanofiltration Processes, <i>Toxics</i> , 2024, 12(2), 103, 10.3390/toxics12020103
11.	Zhao N., Feng Y., Zuo L., Fu P., Zhang X., Magnesium-induced evolution of micromorphology on layered double hydroxides for enhanced hybrid supercapacitors, <i>Journal of Energy Storage</i> , 2024, 77, 110010, 10.1016/j.est.2023.110010
12.	Oprea M., Voicu SI, Cellulose acetate-based membranes for the removal of heavy metals from water in the context of circular economy, <i>Industrial Crops and Products</i> , 2023, 206, 117716, 10.1016/j.indcrop.2023.117716
13.	Gheorghita D., Moldovan H., Robu A., Bitu AI, Grosu E., Antoniac A, Corneschi I, Antoniac I, Bodog AD, Bacila CI, Chitosan-Based Biomaterials for Hemostatic Applications: A Review of Recent Advances, <i>International Journal of Molecular Science</i> , 2023, 24 (13), 10540, 10.3390/ijms241310540
A-G Brotea, O-T Matica, C Musina, M Cristea, A Stefanu, <b>A-M Pandele</b> , E-M Ungureanu, <i>Advanced Materials Based on Azulenyl-Phenyloxazolone</i> , <i>Symmetry</i> , 15(2), 540, 2023, 10.3390/sym15020540	
1.	Fiaz Z., Noor F., Ikram A., Chohan TA, Aslam MZ, Arshad N., Identification of novel antimicrobial compounds in colostrum-associated <i>Lactiplantibacillus plantarum</i> ZFS 1 and 2 by integrating in vitro, machine learning and bioinformatics approaches, <i>Food Bioscience</i> , 2024, 62, 105098
2.	Raduca M., Popa M.M., Cristea M., Razu A.C., Dumitrascu F., CRYSTAL STRUCTURE AND HIRSHFELD SURFACE ANALYSIS OF (Z)-4((5-ISOPROPYL-3,8-DIMETHYLAZULEN-1-YL)METHYLENE)-2-PHENYLOXAZOL-5(4H)-ONE, <i>Revue Roumaine De Chimie</i> , 2025, 70(5-6), 345-350
A-C Mocanu, F Miculescu, A E Constantinescu, <b>M-A Pandele</b> , Ş I Voicu, A Cîmpean, M Miculescu, A M Negrescu, Selection route of precursor materials in 3D printing composite filament development for biomedical applications, <i>Materials</i> , 16(6), 2359, 2023, 10.3390/ma16062359	
1.	Mocanu A.C., Printable PLA-based products functionalized for antimicrobial features and destined for biomedical applications, <i>Functionalized Materials Applications in Biomedicine</i> , 2025, 59-84
2.	Ahmad S., Hashmi A.W., Iqbal F., Rab S., Tian Y., Exploring the potential of 3D printing for shape memory alloys: a critical review, <i>Measurement Science and Technology</i> , 2024, 35 (12), 122001
3.	Negrescu A.M., Mocanu A.C., Miculescu F., Constantinescu A.E., Cîmpean A., In Vitro Studies on 3D-Printed PLA/HA/GNP Structures for Bone Tissue Regeneration, <i>Biomimetics</i> , 2024, 9(1), 55
4.	Mani G., Thepperumal SK, Recent Trends on Additive Manufacturing Biomaterial Composites in Tissue Regeneration Future Perspectives, Challenges, and Road Maps to Clinics for Biomedical Applications—A Review, <i>3D Printing and Additive Manufacturing</i> , 2024
5.	Barchiki F. Fracaro L., Dominguez A.C., Moura S.A.B.D., Brofman P.R.S, Biocompatibility of ABS and PLA Polymers with Dental Pulp Stem Cells Enhance Their Potential Biomedical Applications <i>Polymers</i> , 2023, 15(24), 4629
L T Ciocan A-C Mocanu, F Miculescu, C-A Dascălu, Ş I Voicu, <b>M-A Pandele</b> , R-C Ciocoiu, D Batalu, S Dondea, V Mitran, Influence of Ceramic Particles Size and Ratio on Surface—Volume Features of the Naturally Derived HA-Reinforced Filaments for Biomedical Applications, <i>Journal of Functional Biomaterials</i> , 13(4), 199, 2022, 10.3390/jfb13040199j	
1.	Talukder M.M.H., Islam M.S., Arifuzzaman M., Agro-waste to high-performance composites: Cow bone particles as renewable reinforcements for enhanced mechanical and fire safety, <i>Hybrid Advances</i> , 2025, 10, 100504
2.	Mocanu A.C., Printable PLA-based products functionalized for antimicrobial features and destined for biomedical applications, <i>Functionalized Materials Applications in Biomedicine</i> , 2025, 59-84
3.	John L.K., Ramu M., Singamneni S., Binudas N., Strength evaluation of polymer ceramic composites: a comparative study between injection molding and fused filament fabrication techniques, <i>Progress in Additive Manufacturing</i> , 2025, 10(1), 339-347
4.	Arumaiselvan U., Kalimuthu M., Nagarajan R., Al-Lohedan H.A., Krishnan K., Mechanical, Physical and Thermal Properties of Polylactic Acid Filament Composite Reinforced with Newly Isolated <i>Cryptostegia grandiflora</i> Fiber, <i>Bioresources</i> , 2024, 19(2), 3740-3754
5.	Negrescu A.M., Mocanu A.C., Miculescu F., Constantinescu A.E., Cîmpean A., In Vitro Studies on 3D-Printed PLA/HA/GNP Structures for Bone Tissue Regeneration, <i>Biomimetics</i> , 2024, 9(1), 55
6.	Ruiz-Baltazar A.D.J., Bohnel H.N., Larranaga Ordaz D., Mendez-Lozano N., Reyes-Lopez S.Y., Green Ultrasound-Assisted Synthesis of Surface-Decorated Nanoparticles of Fe <sub>3</sub> O <sub>4</sub> with Au and Ag: Study of the Antifungal and Antibacterial Activity, <i>Journal of Functional Biomaterials</i> , 2023, 14(6), 304
7.	Prodana M., Ionita D., Stoian A.B., Mihai G.V., Enachescu M., The Design and Characterization of New Chitosan, Bioglass and ZnO-Based Coatings on Ti-Zr-Ta-Ag, <i>Coatings</i> , 2023, 13(3), 493
8.	Patil S., Sathish T., Bio-waste Composite Recycling Using 3d Printing: A Review, <i>Springer Proceeding in Materials</i> , 2023, 32, 131-144
9.	Thurzo A., Galfiova P., Novakova Z.V., Janek M., Danisovic L., Fabrication and In Vitro Characterization of Novel Hydroxyapatite Scaffolds 3D Printed Using Polyvinyl Alcohol as a Thermoplastic Binder, <i>International Journal of Molecular Science</i> , 2022, 23(23) 14870

<b>A.M Pandele, M Oprea, A A Dutu, F Miculescu, SI Voicu, A Novel Generation of Polysulfone/Crown Ether-Functionalized Reduced Graphene Oxide Membranes with Potential Applications in Hemodialysis, <i>Polymers</i>, 14(1), 148, 2022, 10.3390/polym14010148, IF=4.9</b>	
1.	Prihartini Aryanti P.T., Putu Indi Dharmayanti N.L., Hendarwan H., Khoiruddin K., I Gede Wenten, Advancements in membrane materials for hemodialysis: A comprehensive review and future perspectives, <i>Separation and Purification Technology</i> , 2025, 375, 133718
2.	Andrade-Guel M., Cabello-Alvarado C.J., Nervy-Flores S.D., Quinones-Jurado Z.V., Caero L.C., Nanocomposite Polysulfone/CB Modified by Melt Extrusion and Solution Mixing for Enhanced Removal of Uremic Toxins, <i>Materials</i> , 2025, 18(14), 3352
3.	Al-Musawy W.K., Ibraheem B.M., Darwesh T.M., Awad M., Alsahy Q.F., Synthesis and performance of polysulfone-chitosan ultrafiltration membranes for humic acid removal, <i>Desalination and Water Treatment</i> , 2025, 321, 100939
4.	Domke A., Wazniak-Budych M., Staszak K., Enhancing Hemodialysis Through Advanced Polymeric Membranes and Improved Material Additives, <i>Polymer Reviews</i> , 2025, 65(3), 735-776
5.	Zeeshan M.H., Ruman U.E., Shafiq M., Waqas S, Sabir A., Intercalation of GO-Ag nanoparticles in cellulose acetate nanofiltration mixed matrix membrane for efficient removal of chromium and cobalt ions from wastewater, <i>Journal of Environmental Chemical Engineering</i> , 2024, 12(5), 113713
6.	Ba-Abbad M.M., Mahmud N., Benamor A., Takriff M.S., Mohammad A.W., Improved properties and salt rejection of polysulfone membrane by incorporation of hydrophilic cobalt-doped ZnO nanoparticles, <i>Emergent Materials</i> , 2024, 7(2), 509-519
7.	Oprea M., Voicu S.I., Cellulose acetate-based membranes for the removal of heavy metals from water in the context of circular economy <i>Industrial Crops and Products</i> , 2023, 206, 117716
8.	Roy Barman S., Gavit P., Chowdhury S., Chatterjee K., Nain A., 3D-Printed Materials for Wastewater Treatment, <i>Jacs Au</i> , 2023, 3(11), 2930-2947
9.	Saini S., Saini P., Kumar K., Dhuria T., Parewa V., Unlocking the Molecular Behavior of Natural Amine-Targeted Carbon Quantum Dots for the Synthesis of Diverse Pharmacophore Scaffolds via an Unusual Nanoaminocatalytic Route, <i>ACS Applied Materials and Interfaces</i> , 2023, 15(42), 49083-19094
10.	Gupta U., Kumar N., Lata A., Singh P., Arun R.K., Bio-inspired self-pumping microfluidic device for cleaning of urea using reduced graphene oxide (rGO) modified polymeric nanohybrid membrane, <i>International Journal of Biological Macromolecules</i> , 2023, 241, 124614
11.	Oprea M., Voicu S.I., Cellulose Acetate-Based Materials for Water Treatment in the Context of Circular Economy, <i>Water Switzerland</i> , 2023, 15(10), 18690
12.	Radu E.R., Voicu S.I., Thakur V.K., Polymeric Membranes for Biomedical Applications, <i>Polymers</i> , 2023, 15(3), 619
13.	Zhu S., Li Y., Liu D., Huang Q., Kuang Y., Excellent CoOxHy/C Oxygen Evolution Catalysts Evolved from the Rapid In Situ Electrochemical Reconstruction of Cobalt Transition Metals Doped into the V2SnC MAX Phase at A Layers, <i>ACS Applied Energy Materias</i> , 2023, 6(2), 1116-1125
14.	Radu ER, Semenescu A., Voicu SI., Recent Advances in Stimuli-Responsive Doxorubicin Delivery Systems for Liver Cancer Therapy, <i>Polymers</i> , 2022, 14(23), 5249
15.	Chiulan I, Voicu SI, Batalu D.,The Use of Graphene and Its Derivatives for the Development of Polymer Matrix Composites by Stereolithographic 3D Printing, <i>Applied Science Switzerland</i> , 2022, 12(7), 3521
16.	Thiam BG, El Magri A., Vanaei HR, Vaudreuil S., 3D Printed and Conventional Membranes—A Review, <i>Polymers</i> , 2022, 14(5), 1023
17.	Radu ER, Voicu SI, Functionalized Hemodialysis Polysulfone Membranes with Improved Hemocompatibility, <i>Polymers</i> , 2022, 14(6), 1130
<b>O S Serbanescu, A M Pandele, M Oprea, A Semenescu, V K Thakur, S I Voicu, Crown ether-immobilized cellulose acetate membranes for the retention of Gd (III), <i>Polymers</i>, 13(22), 3978, 2021, 10.3390/polym13223978</b>	
1.	Oprea M., Voicu S.I., Cellulose acetate-based membranes for the removal of heavy metals from water in the context of circular economy, <i>Industrial Crops and Proucts</i> , 2023, 206, 117716
2.	Voicu S.I., Thakur V.K., Green polymers-based membranes for water reuse in a circular economy context, <i>Current Opinion in Green and Sutinable Chemistry</i> , 2023, 43, 100852
3.	Diaz Bukvic G. Rossi E., Errea M.I., Polysaccharides as Economic and Sustainable Raw Materials for the Preparation of Adsorbents for Water Treatment, <i>Polysaccharides</i> , 2023, 43(3), 219-255
4.	Ghitman J., Voicu S.I., Controlled drug delivery mediated by cyclodextrin-based supramolecular self-assembled carriers: From design to clinical performances, <i>Carbohydrate Polymer Technologies and Applications</i> , 2023, 5, 100266
5.	Oprea M., Voicu SI, Cellulose Acetate-Based Materials for Water Treatment in the Context of Circular Economy, <i>Water Switzerland</i> , 2023, 15(10), 1860
6.	Radu E.R., Voicu S.I., Thakur V.K., Polymeric Membranes for Biomedical Applications, <i>Polymers</i> , 2023, 15(3), 619
7.	Pylypchuk I., Kovach V., Iatsyshyn A., Kutsenko V., Traduda D., Development Boron and Gadolinium-Containing Composite Materials Based on Natural Polymers for Protection Against Neutron Radiation, <i>Studies in Systems Decision and Control</i> , 4814, 527-540
8.	Radu E.R., Voicu S.I., Functionalized Hemodialysis Polysulfone Membranes with Improved Hemocompatibility, <i>Polymers</i> , 2022, 14(6), 1130

A-C Mocanu, F Miculescu, G E Stan, <b>A-M Pandele</b> , M A Pop, R C Ciocoiu, Ş I Voicu, L T Ciocan, Fiber-templated 3D calcium-phosphate scaffolds for biomedical applications: the role of the thermal treatment ambient on physico-chemical properties, <i>Materials</i> , 14(9), 2198, 2021, 10.3390/ma14092198	
1.	Cioanher M., Amarande L., Stan G.E., Moisescu M.G., Tivig I., Hindrances and solutions on the path towards adjoined barium titanate–hydroxyapatite ceramics with uncompromised piezoelectric and biological responses, <i>Ceramic International</i> , 2024, 50(17), 29711-29728
2.	Mocanu A.C., Miculescu F., Stan G.E., Butte T.M., Ciocan L.T., Development of ceramic coatings on titanium alloy substrate by laser cladding with pre-placed natural derived-slurry: Influence of hydroxyapatite ratio and beam power, <i>Ceramic International</i> , 2023, 49(7), 10445-10454
3.	Munusamy R., Ravichandran A., El Mabrouk K., Anbalagan B.M., Polymer Sponge Replication Technology Derived Strontium-Substituted Apatite (Sr-HAP) Porous Scaffolds for Bone Tissue Engineering, <i>Biomedical Materials and Devices</i> , 2023, 1(1), 504-511
4.	Mocanu A.C., Miculescu F., Stan G.E., Butte T.M., Ciocan L.T., Modulated Laser Cladding of Implant-Type Coatings by Bovine-Bone-Derived Hydroxyapatite Powder Injection on Ti6Al4V Substrates—Part I: Fabrication and Physico-Chemical Characterization, <i>Materials</i> , 2022, 15(22), 7971
A.C.Mocanu, F.Miculescu, M.Miculescu, R. C.Ciocoiu, <b>A.M. Pandele</b> , G. E Stan, A.Cîmpean, Ş. I.Voicu, L.-T. Ciocan, Comprehensive analysis of compatible natural fibre as sacrificial porogen template for tailored ceramic 3D bioproducts destined for hard tissue reconstruction, <i>Ceramics International</i> , 2021, <i>Ceramic International</i> , 47(2021), 5318-5334, 10.1016/j.ceramint.2020.10.113	
1.	Komorowska G., Kosinska J., Wejrzanowski T., Wojciechowska A., Jastrzebska A., Natural porogens for manufacturing of materials for high-temperature fuel cell applications, <i>Material for Renewable and Sustainable Energy</i> , 2025, 14(2), 32
2.	Qasim S.S.B., Tufail Shah A., Daood U., Habib S., Saoud IK.M., Enhancing craniofacial bone tissue engineering strategy: integrating rapid wet chemically synthesised bioactive glass with photopolymerized resins, <i>BMC Oral Health</i> , 2024, 24(1), 1195
3.	Gou Y., Qi K., Wei Y., Gu Z., Xie H., Enhancing craniofacial bone tissue engineering strategy: integrating rapid wet chemically synthesised bioactive glass with photopolymerized resins, <i>Nano Transmed</i> , 2024, 3, 100033
4.	Li R., Yin Y., Miao J., Li C., Xu M., Influence of pore structures on friction and wear properties of iron-based oil-containing composites under dry and self-lubricated sliding conditions, <i>Wear</i> , 2024, 556-557, 205533
5.	da Silva A.D.R., Motta R.J.B., de Sous Triches E., de Almeida R.M., Sugarcane bagasse: alternative use of agro-industrial residue in pre-dimensioned catalytic synthesis to obtain ordered carbon and hydrogen via methane decomposition, <i>Journal of Material Cycles and Waste Management</i> , 2024, 26(5), 3114-3124
6.	Ciftci F., Ozarslan A.C., Comprehensive assessment of PLGA/nHAp combined with Hemp oil bionanocomposites: Revealing the in vitro behavior and features, <i>Nano Structures and Nano Objects</i> , 2024, 38, 101152
7.	Li R., Yin Y., Xu M., Zhen H., Wei X., Effects of a hierarchical pore structure on the tribological properties of an oil-containing iron-based composite, <i>Tribology International</i> , 2023, 188, 108857
8.	Mocanu A.C., Miculescu F., Stan G.E., Butte T.M., Ciocan L.T., Modulated Laser Cladding of Implant-Type Coatings by Bovine-Bone-Derived Hydroxyapatite Powder Injection on Ti6Al4V Substrates—Part I: Fabrication and Physico-Chemical Characterization, <i>Materials</i> , 2022, 15(22) 7971
9.	Senthilkumar B., Sonia K., Mahesh G., Mechanical and in-vitro studies of biodegradable chitosan/cissus quadrangularis coated flax sutures for anterior cruciate ligaments repair, <i>Journal of Industrial Textiles</i> , 2022, 51(4 suppl), 5756-5773
10.	Arokiasamy P., Al Bakri Abdullah M.M., Abd Rahim S.Z., Jamil N.H., Nabialek M., Synthesis methods of hydroxyapatite from natural sources: A review, <i>Ceramics International</i> , 2022, 48(11), 14959-14979
11.	Chang B., Du C., Sun M., Zhang L., He J., Mesoscopic seepage simulation and analysis of unclassified tailings pores based on 3d reconstruction technology, <i>ACS Omega</i> , 2021, 6(22),14309-14316
12.	Mocanu A.C., Miculescu F., Stan G.E., Miculescu M., Ciocan L.T., Preliminary studies on graphene-reinforced 3d products obtained by the one-stage sacrificial template method for bone reconstruction applications, <i>Journal of Functional Biomaterials</i> , 2021, 12(1), 13
13.	Xu H., Du H., Kang L., Feng D., Xia S., Constructing straight pores and improving mechanical properties of gangue-based porous ceramics, <i>Journal of Renewable Materials</i> , 2021, 9(12), 2129-2140
14.	Sandeep B.N., Buddha K., Ashok Raj J., Chandra Babu Naidu K., Manjunatha M., Preparation and characterization using Tectona Grandis natural fiber for the green composite polymer matrix, <i>Materials Today Proceedings</i> , 2021, 47, 3703-3710
M.D. Raicopol, <b>A.M. Pandele</b> , C. Dascalu, E. Vasile, A. Hanganu, GG. Vasile, IG. Bugean, C. Pirvu, G. Stanciu, GO Buica, Improving the voltammetric determination of hg(II): A comparison between ligand-modified glassy carbon and electrochemically reduced graphene oxide electrodes, <i>Sensors</i> , 20 (2020), 6799, (18 pagini), 10.3390/s20236799	
1.	Okeke E.S., Nwankwo CEI, Owonikoko WM, Nwuche CO, Enochoghene AE, Mercury's poisonous pulse: Blazing a new path for aquatic conservation with eco-friendly mitigation strategies, <i>Science of the Total Environment</i> , 2024, 957, 177719
2.	Wang X., Bai X., Wang W., Zhao Z, Shan J, TiO2/Ni-NC Hybrid Derived from Ti3C2TX/NiMOF for Highly Sensitive Electrochemical Sensing of Mercury Ions, <i>Journal of the Electrochemical Society</i> , 2023, 170(3), 037519

3.	Zhou A, Bai J., Hong W., Bai H., Electrochemically reduced graphene oxide: Preparation, composites, and applications, <i>Carbon</i> , 2022, 191, 301-332
4.	Mersal G.A.M., El-Sheshtawy H.S., Fallatah A.M., Saleh D.I., Ibrahim M.M., A Thiomidazolylborate based Carbon Paste Electrode for Voltametric Detection of Heavy Metals in Wastewater, <i>Asian Journal of Chemistry</i> , 2022, 34(3), 635-643
5.	Esmacili M., Ahour F., Keshipour S., Sensitive and selective determination of trace amounts of mercury ions using a dimercaprol functionalized graphene quantum dot modified glassy carbon electrode, <i>Nanoscale</i> , 2021, 13(26), 11403-11413
6.	Aritonang H.F., Kojong T., Koleangan H., Wuntu A.D., Green synthesis of silver nanoparticles using lantana camara fresh leaf extract for qualitative detection of hg <sup>2+</sup> , cu <sup>2+</sup> , pb <sup>2+</sup> , and mn <sup>2+</sup> in aqueous solution, <i>Indonesian Journal of Chemistry</i> , 2021, 21(4), 990-1002
<b>A.M. Pandele, H. Iovu, C. Orbeci, C. Tuncel, A. Nicolescu, C. Deleanu, S.I. Voicu*, Surface Modified Cellulose Acetate Membranes for the Reactive Retention of Tetracycline, <i>Separation and Purification Technology</i>, 249 (2020) 117145; 10.1016/j.seppur.2020.117145</b>	
1.	Hu J., Wang Y., Li K., Huang H., Li Y., Removal of tetracyclines through polymerization combined with colorimetric-photothermal dual-mode sensing platform based on a novel nanozyme Cu-5 PMA, <i>Chemical Engineering Journal</i> , 2025, 520, 165737
2.	Liu Y., Xu S., Zhang Z., A Chlorine Dioxide Sustained-Release System Based on Cellulose Porous Microspheres: A Novel Approach for Grape Preservation, <i>Packaging Technology and Science</i> , 2025, 38(4), 293-308
3.	Sponchiado PAI, Melo M.T., Cominal J.G. ramos A.P. Maniglia B.C., Biomembranes Based on Potato Starch Modified by Dry Heating Treatment: One Sustainable Strategy to Amplify the Use of Starch as a Biomaterial, <i>Biomacromolecules</i> , 2025, 26(3), 1530-1540
4.	Patil S., Nair A., Lakkakula J., Wagh N.S., Bio-Membrane Based Solutions for Wastewater Treatment, <i>Environmental Science and Emgineering</i> , 2025, Part F65, 197-223
5.	Zhang S., Liu L., Yu J., Fan Y., A review of cellulose amination in homogeneous and heterogeneous systems and their applications, <i>Industrial Crops and Products</i> , 2024, 222, 119500
6.	Zhang X., Zhang J., Wang G., Liu H., Gao G., Constructing dendrite-suppressing separators based on cellulose acetate and polyoxometalates toward uniform lithium electrodeposition, <i>Dalton Transactions</i> , 2024, 54(4), 1665-1676
7.	Ullah F., Khan A., Gul K., Kamal T., Ali N., Cellulose acetate sheet supported gold nanoparticles for the catalytic reduction of toxic organic pollutants, <i>Zeitschrift Fur Physikalische Chemie</i> , 2024, 238(12), 2279-2297
8.	Lang D., Wu R., Wang ., Cotton Stalk-Based Biomass, <i>ACS Symposium Series</i> , 2024, 1485, 43-62
9.	Padhan B., Ryoo W., Patel M., Dash J.K., Patel R., Cutting-Edge Applications of Cellulose-Based Membranes in Drug and Organic Contaminant Removal: Recent Advances and Innovations <i>Polymers</i> , 2024, 16(20), 2938
10.	Dos Santos Menezes L., Navarro da Rocha D., Nonato R.C., Correr A.B., Neves J.G., Cellulose acetate scaffold coated with a hydroxyapatite/graphene oxide nanocomposite for application in tissue engineering, <i>Proceedings of the Institution of Mechanical Engineers Part H Journal of Engineering in Medicine</i> , 238(7), 793-802
11.	Jain V., Awasthi A., Ghosh S., Biosynthesis of xylitol by cell immobilization: an insight, <i>Biomass Conversion and Biorefinery</i> , 2024, 14(14), 15223-15235
12.	Jedynak K., Charnas B., Wawrzaszek B., Preparation of Activated Biocarbons from Cones and their Potential Application for Adsorption of Antibiotics (Tetracycline), <i>Chemphyschem</i> , 2024, 25(10), e202300777
13.	Tischer a.M., Ferreira R.R., Ribeiro J.G., dos Santos Rosa D., Paulino A.T., Green synthesis of an advanced composite membrane for the purification of water contaminated with potentially toxic metals, <i>Journal of Water Process</i> , 2024, 61, 105239
14.	Menezes L.D.S., Navarro da Rocha D., Carajescov Nonato R., Correr A.B., Never J.G., Cellulose acetate scaffold containing hydroxyapatite/graphene oxide nanocomposite by electrospinning for advanced regenerative therapies, <i>Journal of Bioactive and Compatible Polymers</i> , 2024, 39(2), 91-103
15.	Trifan I.S., Chibac-Scutaru A.L. Melinte V., Coseri S., Photopolymerization Pattern of New Methacrylate Cellulose Acetate Derivatives, <i>Polymers</i> , 2024, 16(4), 560
16.	Qin X., Feng X., Hu D., From asymmetry to symmetry: Biomimetic multi-channel structures for enhanced desalination using co-dissolving porogens, <i>Journal of Membrane Science</i> , 2023, 685, 121914

17.	Voicu S.I., Thakur V.K., Green polymers-based membranes for water reuse in a circular economy context, <i>Current Opinion in Green and Sustainable Chemistry</i> , 43, 100852
18.	Zeng S., Li K., Xu X., Zhang J., Xue Y., Efficiently catalytic degradation of tetracycline via persulfate activation with plant-based biochars: Insight into endogenous mineral self-template effect and pyrolysis catalysis, <i>Chemosphere</i> , 2023, 337, 139309
19.	Abdel-Naby A., Alabdullatif B.A. Aldulajan S., Alqarni Y., Synthesis and characterization of p-carboxy phenyl amino maleimide-g-cellulose acetate/ZrO <sub>2</sub> nanocomposite membrane for water desalination, <i>Water Reuse</i> , 2023, 139309
20.	Song W., Qian L., Miao Z., Gao J., Li X., High-performance functional cellulose foam fabricated with theoretically optimized imidazolium salts for the efficient removal of ciprofloxacin, <i>Carbohydrate Polymers</i> , 2023, 315, 121001
21.	Lun L., SuY., Gong X., Zeng H., Zheng L., Co-adsorption and competitive adsorption of sulfamethoxazole by carboxyl-rich functionalized corn stalk cellulose in the presence of heavy metals, <i>Industrial Crops and Products</i> , 2023, 199, 116761
22.	Yao T., Song J., Hong Y., Ren X., Du K., Application of cellulose to chromatographic media: Cellulose dissolution, and media fabrication and derivatization, <i>Journal of Chromatography A</i> , 2023, 1705, 464202
23.	Yang S., Lou J., Jing L., Liu Z., Han W., Blue/red dual emission based ratiometric fluorescent intelligent labels for real-time food freshness monitoring, <i>Food Control</i> , 2023, 150, 109775
24.	Galvao DS, Alves N.A., Tiburtius E.R.L., Pessoa C.A., Fujiwara S.T., Reactive dye degradation using Fe <sup>3+</sup> modified membranes obtained from cigarette filters, <i>Journal of Photochemistry and Photobiology A Chemistry</i> , 2023, 439, 114586
25.	Oprea M., Voicu S.I., Cellulose Acetate-Based Materials for Water Treatment in the Context of Circular Economy, <i>Water Switzerland</i> , 2023, 15(10), 1860
26.	Huang B., Huang D., Zheng Q., Fu H., Liao Y., Enhanced adsorption capacity of tetracycline on porous graphitic biochar with an ultra-large surface area <i>RSC Advances</i> , 2023, 13(15), 10397-10407
27.	Yu Z., Ji L., Zuo Y., Chen C., Li F, Removal of Tetracycline Hydrochloride by Ball-Milled Mulberry Biochar, <i>Water Air and Soil Pollution</i> , 2023, 234(4), 211
28.	Chen Z., Lin B., Huang Y., Qu R., Tang C., Pyrolysis temperature affects the physiochemical characteristics of lanthanum-modified biochar derived from orange peels: Insights into the mechanisms of tetracycline adsorption by spectroscopic analysis and theoretical calculations, <i>Science of the Total Environment</i> , 2023, 862, 160860
29.	Quan Z., Xue F., Li H., Zhu H., He H., Design of a biomimetic cellulose nanofibre-based double information encryption sensor for fingerprint imaging, <i>Carbohydrate Polymers</i> , 2023, 302, 120394
30.	Ersan M., Dogan H., Investigation of environmentally friendly adsorbent synthesis from eggshell by carbonization, immobilization, and radiation: Box-Benken Design and tetracyclin removal, <i>Groundwater for Sustainable Development</i> , 2023, 20, 100858
31.	Radu ER., Voicu SI., Thakur VK., Polymeric Membranes for Biomedical Applications, <i>Polymers</i> , 2023, 15(3), 619
32.	Moreira JB., Kuntzler SG., Teixeira LHC, Costa JAV, de Morais MG, Nanocellulose as Reinforcement in Epoxy Composites, <i>Epoxy Based Biocomposites</i> , 2023, 211-227
33.	Komali N.D., Gaikwad P.S., Yadav B.K., Fabrication of cellulose acetate membrane for monitoring freshness of minimally processed pomegranate ( <i>Punica granatum</i> ) arils, <i>Food Bioscience</i> , 2022, 49, 101945
34.	Voicu SI, Thakur VK, Graphene-based composite membranes for nanofiltration: performances and future perspectives, <i>Emergent Materials</i> , 2022, 5(5), 1429-1441
35.	Zhang K., Wu H.H., Huo H.Q, Zhou Y., Gao C.J., Recent advances in nanofiltration, reverse osmosis membranes and their applications in biomedical separation field, <i>Chenise Journal of Chemical Engineering</i> , 2022, 49, 76-99

36.	Mengyuan Y., Ce C., Li L., Cheng C., Ronghui G., Porous activated carbons derived from bamboo pulp black liquor for effective adsorption removal of tetracycline hydrochloride and malachite green from water, <i>Water Science and Technology</i> , 2022, 86(2), 244-260
37.	Liu W., Wei C., Peng R., Zhang X., Xie F., Persulfate assisted photocatalytic degradation of tetracycline by bismuth titanate under visible light irradiation, <i>New Journal of Chemistry</i> , 2022, 46(22), 10854-10862
38.	Elbakry S., Ali MEA, Abouelfadl M., Badway NA, Salam KMM, Effective removal of organic compounds using a novel cellulose acetate coated by PA/g-CN/Ag nanocomposite membranes, <i>Surfaces and Interfaces</i> , 2022, 29, 101748
39.	Leichtweis J., Vieira Y., Welter N., Dotto GL, Carissimi E., A review of the occurrence, disposal, determination, toxicity and remediation technologies of the tetracycline antibiotic, <i>Process Safety and Environmental Protection</i> , 2022, 160, 25-40
40.	Chiulan I., Voicu SI., Batalu D., The Use of Graphene and Its Derivatives for the Development of Polymer Matrix Composites by Stereolithographic 3D Printing, <i>Applied Sciences Switzerland</i> , 2022, 12(7), 3521
41.	Stavarache C., Nicolescu A., Duduianu C., Iovu H., Deleanu C., A Real-Life Reproducibility Assessment for NMR Metabolomics, <i>Diagnostics</i> , 2022, 12(3), 559
42.	Ma Y., Chen S., Qi Y., Ding Y., Zhang Z, An efficient, green and sustainable potassium hydroxide activated magnetic corn cob biochar for imidacloprid removal, <i>Chemosphere</i> , 2022, 291, 132707
43.	Radu E.R., Voicu S.I., Functionalized Hemodialysis Polysulfone Membranes with Improved Hemocompatibility, <i>Polymers</i> , 2022, 14(6), 1130
44.	Tie J., Zhang H., Duan X., Wei M., Zheng Z., Performance of Tetracycline Hydrochloride Removal Using Acidized and Magnetized Waterworks Sludge as Adsorbent, <i>Polish Journal of Environmental Studies</i> , 2022, 31(6), 5863-5873
45.	Rana A.K. Gupta VK., Saini AK, Abdellattifaand MH, Thakur VK, Water desalination using nanocelluloses/cellulose derivatives based membranes for sustainable future, <i>Desalination</i> , 2021, 520, 1152359
46.	Shao X., Chen X., Qui Z., Qui F., Zhang T., Fabrication of hierarchical porous MgO/cellulose acetate hybrid membrane with improved antifouling properties for tellurium separation, <i>Cellulose</i> , 2021, 28(16), 10549-10563
47.	Yong H., Yu H., Wang J., Di S, Zhu S., Magnetic porous biochar as a renewable and highly effective adsorbent for the removal of tetracycline hydrochloride in water, <i>Environmental Science and Pollution Research</i> , 2021, 28(43), 61513-61525
48.	Mamba FB., Mbuli BS, Ramonta J., Recent advances in biopolymeric membranes towards the removal of emerging organic pollutants from water, <i>Membranes</i> , 2021, 11(11), 798
49.	Liu Y., Liu H., Shen Z., Nanocellulose based filtration membrane in industrial waste water treatment: A review, <i>Material</i> , 2021, 14(18) 5398
50.	Voicu SI., Thakur VK., Multiple adsorption systems and electron-scale insights into the high efficiency coadsorption of a novel assembled cellulose via experiments and DFT calculations, <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021, 30, 100480
51.	Ruello J.L., Kim H., Fabrication of lightweight and robust cryogel with opposite wettability for effective oil-water separation via sustainable and toxic-free approach, <i>Journal of Environmental Chemical Engineering</i> , 2021, 9(4), 105477
52.	Ersan M., Dogan H., Development of new adsorbents via microwave treatment magnetic PET synthesis from waste PET and investigation of TC removal, <i>Colloids and Interface Science Communications</i> , 2021, 42, 100416
53.	Palla-Papavlu A., Voicu SI., Dinescu M., Sensitive materials and coating technologies for surface acoustic wave sensors, <i>Chemosnsors</i> , 2021, 9(5), 105
54.	Zhang D., He Q., Hu X., Chen C., Xue Y., Enhanced adsorption for the removal of tetracycline hydrochloride (TC) using ball-milled biochar derived from crayfish shell, <i>Colloids and Surfaces A Physicochemical and Engineering Aspects</i> , 2021, 615, 126254
55.	Liang, C., Zhao, L., Li, S., Qiao, L., Wang, T., Du, K, Direct preparation of porous cellulose microspheres via a self-growth process on bamboo fibers and their functionalization for specific adsorption of histidine-rich proteins, 2020, <i>Journal of Chromatography A</i> , 1633, art. no. 461636
56.	Oprea, M., Voicu, S.I., Cellulose composites with graphene for tissue engineering applications, 2020, <i>Materials</i> , 13 (23), art. no. 5347, pp. 1-24
57.	Zhang, T., Zheng, L., Yu, H., Ren, J., Peng, D., Zhang, L., Meng, P, Multiple adsorption systems and electron-scale insights into the high efficiency coadsorption of a novel assembled cellulose via experiments and DFT calculations, 2021, <i>Journal of Hazardous Materials</i> , 416, art. no. 125748
58.	Voicu, S.I., Thakur, V.K, Aminopropyltriethoxysilane as a linker for cellulose-based functional materials: New horizons and future challenges, 2021, <i>Current Opinion in Green and Sustainable Chemistry</i> , 30, art. no. 100480
59.	Ruello, J.L., Kim, H., Fabrication of lightweight and robust cryogel with opposite wettability for effective oil-water separation via sustainable and toxic-free approach, 2021, <i>Journal of Environmental Chemical Engineering</i> , 9 (4), art. no. 105477
60.	Ersan, M., Dogan, H., Development of new adsorbents via microwave treatment magnetic PET synthesis from waste PET and investigation of TC removal, 2021, <i>Colloids and Interface Science Communications</i> , 42, art. no. 100416

61.	Zhang, D., He, Q., Hu, X., Zhang, K., Chen, C., Xue, Y., Enhanced adsorption for the removal of tetracycline hydrochloride (TC) using ball-milled biochar derived from crayfish shell, 2021, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 615, art. no. 126254
<b>A.M. Pandele, O.S. Serbanescu, S.I. Voicu, Polysulfone Composite Membranes with Carbonaceous Structure. Synthesis and Applications, Coatings, 2020, 10(7), 609, 10.3390/coatings10070609</b>	
1.	Andrade-Guel M., Cabello-Alvarado CJ., Nery-Flores S.D., Quinones-Jurado Z.V., Caero L.C., Nanocomposite Polysulfone/CB Modified by Melt Extrusion and Solution Mixing for Enhanced Removal of Uremic Toxins, Materials, 2025, 18(14), 3352
2.	Xu W., Zhao D., Jiang X., Yang W., Ma Y., Modification of epoxy resins with different molecular weight poly(aryl ether sulfone) as effective toughening agents, Polymer, 2025, 325, 128324
3.	Qu H., Huang Q., Dai G., Sun X., Gao C., Enhancement of antifouling and mechanical properties of polysulfone membrane using zwitterionic biphenyl polyimide as additive, Journal of Environmental Chemical Engineering, 2024, 12(4), 113239
4.	Yan S., Qui Y., Improving Hemocompatibility of Polysulfone Membrane by UV-Assisted Grafting of Sulfonated Chitosan, Polymers, 2024, 16(11), 1555
5.	De Souza A.X., Frighetto P.D., Badagnani de Carvalho G., Pasquini D., de Moraes L.C., Polysulfone with Different Degrees of Sulfonation: Simple Method with Acetyl Sulfate, Orbital, 2024, 16(1), 41-49
6.	Oprea M., Voicu S.I., Cellulose acetate-based membranes for the removal of heavy metals from water in the context of circular economy, Current Opinion in Green and Sustainable Chemistry, 2023, 43, 100852
7.	Khalil H., Wadi V.S., Hegab H.M., Banat F., Hasan S.W., High-performance f-GO/MWCNTs-COOH nanohybrid-based polylactic acid mixed matrix membrane for wastewater treatment, Journal of Water Process Engineering, 2023, 53, 103784
8.	Oprea M., Voicu S.I., Cellulose Acetate-Based Materials for Water Treatment in the Context of Circular Economy, Water Switzerland, 2023, 15(10), 1860
9.	Costa Florea M., Figueiredo K.C.D.S., Asymmetric oxygen-functionalized carbon nanotubes dispersed in polysulfone for CO <sub>2</sub> separation, Journal of Applied Polymer Science, 2023, 140(2), e53303
10.	Gaina C., Gaina V., Ursache O., Vasiliu L., TEOS loading effect on the properties of PVA-modified polysulfone membranes, Polymer Plastics Technology and Materials, 2023, 62(6), 712-721
11.	Borgaonkar A.V., Potdar S.B., Carbon nanotubes: Application for water purification and desalination, Carbon Nanotubes for Energy and Environmental Applications, 2022, 191-209
12.	Dang X., Liu C., Shi Z., Qiao Y., Jian X., Two-Step Synthesis and Properties of Copoly(Aryl Ether Sulfone) Containing Phthalazinone, Gaofenzi Cailiao Kexue Yu Gongcheng Polymeric Materials Science and Engineering, 2022, 38(10), 1-16
13.	Mishra D., Singh S.K., Adhikari A., Chatterjee S., Polyaniline and polypyrrole impregnated polyethersulfone based composite polymer beads for defluoridation application, Journal of Environmental Chemical Engineering, 2022, 10(5), 108283
14.	Voicu S.I., Thakur V.K., Graphene-based composite membranes for nanofiltration: performances and future perspectives, Emergent Materials, 2022, 5(5), 1429-1441
15.	Zambianchi M., Khaliha S., Bianchi A., Casentini B., Melucci M., Graphene oxide-polysulfone hollow fibers membranes with synergic ultrafiltration and adsorption for enhanced drinking water treatment, Journal Of Membrane Science, 2022, 658, 120707
16.	Gogoi M., Goswami R., Borah A., Sarmah H., Hazarika S., Functionalized multi-walled carbon nanotube thin-layered hollow fiber membrane for enantioselective permeation of racemic $\beta$ -substituted- $\alpha$ -amino acids, Journal of Chemical Sciences, 2022, 134(3), 89
17.	Mukeba K.M., Shelar K.E., Faradizaji B., Pittman C.U., Smith D.W., Semi-fluorinated Poly(aryl ether sulfone)s via step-growth polymerization of perfluorocyclohexene with bisphenols, Polymer, 2022, 253, 124937
18.	Chiulan I., Voicu S.I., Batalu D., The Use of Graphene and Its Derivatives for the Development of Polymer Matrix Composites by Stereolithographic 3D Printing, Applied Sciences Switzerland, 2022, 12(7), 3521
19.	Aljumaily M.M., Alayan H.M., Mohammed A.A., Figoli A., Criscuoli A., The influence of coating super-hydrophobic carbon nanomaterials on the performance of membrane distillation, Applied Water Science, 2022, 12(3), 28
20.	Altaf F., Ahmed S., Usman M., Bocchetta P., Batool R., Removal of heavy metals from wastewater using novel polydopamine-modified cnts-based composite membranes, Processes, 2021, 9(12), 2120
21.	Palla-Papavlu A., Voicu S.I., Dinescu M., Sensitive materials and coating technologies for surface acoustic wave sensors, Chemosensors, 2021, 9(5), 105
22.	Oprea, M., Voicu, S.I., Cellulose composites with graphene for tissue engineering applications, 2020, Materials, 13 (23), art. no. 5347, pp. 1-24
<b>MD. Raicopol, NA. Chira, AM Pandele, A. Hanganu, AA Ivanov, V. Tecuceanu, IG Bugean, GO Buica, Electrodes modified with clickable thiosemicarbazone ligands for sensitive voltammetric detection of Hg(II) ions, Sensors and Actuators B-Chemical, 313(2020), 128030, 10.1016/j.snb.2020.128030</b>	
1.	Dudja R., Nisa S., Yusuf M., Malik A.K., Synthesis, Antimicrobial Potential and Copper (II) Sensing Application of New Thiosemicarbazone and Semicarbazone Derivatives, Journal of Fluorescence, 2025

2.	Magar H.S., Fahim A.M., Sensing platform based on RGO/cellulose-triazole composite for the electrochemical detection of mercury (II) ions in food samples, <i>Microchemical Journal</i> , 2025, 215, 114243
3.	Khanna S., Analysis of thiosemicarbazones as an effective spectrophotometric chemosensor, <i>Phosphorus Sulfur and Silicon and the Related Elements</i> , 2025, 200(1), 37-45
4.	Cyniak J.S., Kasprzak A., Mechanochemical Synthesis of Molecular Chemoreceptors, <i>ACS Omega</i> , 2024, 9(50), 48870-48883
5.	Xu H., Li H.R., Li J.Y., Qu J.J. Li S.S., Sensitive detection of Hg(II) on MoS <sub>2</sub> /NiS <sub>2</sub> based on interfacial engineering to accelerate the Ni <sup>2+</sup> /Ni <sup>3+</sup> cycle: Identification the role of atomic-level heterojunction-induced electron transfer in electroanalysis, <i>Analytica Chimica Acta</i> , 2024, 1331, 343339
6.	Ghalebi S.M., Parham H., Shirmardi A., Hg <sup>2+</sup> determination by DPASV by using poly (methylene disulfide)/Au nanoparticle/MWCNT modified glassy carbon electrode by differential pulse anodic stripping voltammetry (DPASV) technique, <i>Journal of Porous Materials</i> , 2024, 31(1), 251-266
7.	Jaafar A., Youness F., Bilbeisi R.A., Tailored Zeolitic Imidazolate Framework (TSC-ZIF) for water purification: Evaluating TSC-ZIF affinity towards heavy metal ions in multi-metal solutions, <i>Applied Organometallic Chemistry</i> , 2024, 38(1), e7313
8.	Yang Z., Voltammetry for quantitative determination of trace mercury ions in water via acetylene black modified carbon paste electrode, <i>Alexandria Engineering Journal</i> , 2024, 87, 107-113
9.	Munir R., Zaib S., Zia-ur-Rehman M., Bhat M.A., Khan I., Exploration of morpholine-thiophene hybrid thiosemicarbazones for the treatment of ureolytic bacterial infections via targeting urease enzyme: Synthesis, biochemical screening and computational analysis, <i>Frontier in Chemistry</i> , 2024, 12, 1403127
10.	Jain P., Vishvakarma V.K., Singh P., Kumar D., Misra N., Bioactive Thiosemicarbazone Coordination Metal Complexes: Synthesis, Characterization, Theoretical analysis, Biological Activity, Molecular Docking and ADME analysis, <i>Chemistry and Biodiversity</i> , 2023, 20(8), e202300760
11.	Ozbek O., Berkel C., Sensor properties of thiosemicarbazones in different analytical methods, <i>Polyhedron</i> , 2023, 238, 116426
12.	Liu Z, Xu H., Xia X., Jiang M., Li S.S., Ultrasensitive detection of Hg(II) by small-sized Mn <sub>3</sub> O <sub>4</sub> loaded on g-C <sub>3</sub> N <sub>4</sub> nanosheets: Heterojunction facilitates electron transfer and Mn(II)/Mn(III)/Mn(IV) cycle, <i>Analytica Chimica Acta</i> , 2022, 1230, 340404
13.	Pirvu C., Stanciu G., Buica G.O., Cu(ii) and Hg(ii) detection under photo-assisted accumulation in an open circuit potential at a polyazulene-EDTA like modified electrode, <i>Analyst</i> , 2022, 147(21), 4730-4734
14.	Wu L., Wang X., Huang J., Wei H., Kan C., Switch-type near-infrared fluorescent probes for Hg <sup>2+</sup> based on rhodamines, <i>Journal of Photochemistry and Photobiology A Chemistry</i> , 2022, 429, 113936
15.	Jain P., Vishvakarma V.K., Singh P., Kumar D., Misra N., Co(II) and Ni(II) Complexes of a Heterocyclic Ligand: Synthesis, Characterization, Docking and Biological Activity, <i>Iranian Journal of Science and Technology, Transaction A Science</i> , 2022, 46(3), 793-805
16.	Khan A., Khan A.A.P., Khan I., Asiri A.M., Rahman M.M., Sol-Gel Synthesis and Characterization of Highly Selective Poly(N-methyl pyrrole) Stannous(II) Tungstate Nano Composite for Mercury (Hg(II)) Detection, <i>Crystals</i> , 2022, 12(3), 371
17.	Kariuki B.M., Abdel-Wahab B.F., Bekheit M.S., El-Hiti G.A., (Z)-2-(1-(5-Methyl-1-(4-nitrophenyl)-1H-1,2,3-triazol-4-yl)ethylidene)-N-phenylhydrazine-1-carbothioamide, <i>Molbank</i> , 2022, (4), M1462
18.	Esmaili M., Ahour F., Keshipour S., Sensitive and selective determination of trace amounts of mercury ions using a dimercaprol functionalized graphene quantum dot modified glassy carbon electrode, <i>Nanoscale</i> , 2021, 13(26), 11403-11413
19.	Wang S., Chen H., Xie H., She Y., Fu H., A novel thioctic acid-carbon dots fluorescence sensor for the detection of Hg <sup>2+</sup> and thiophanate methyl via S-Hg affinity, <i>Food Chemistry</i> , 2021, 346, 128923
20.	Govindasamy, M., Sriram, B., Wang, S.-F., Chang, Y.-J., Rajabathar, J.R., Highly sensitive determination of cancer toxic mercury ions in biological and human sustenance samples based on green and robust synthesized stannic oxide nanoparticles decorated reduced graphene oxide sheets, 2020, <i>Analytica Chimica Acta</i> , 1137, pp. 181-190
CM Simonescu, V. Lavric, A. Musina, OM Antonescu, DC. Culita, V. Marinescu, C. Tardei, O Oprea, <b>AM Pandelescu</b> , Experimental and modeling of cadmium ions removal by chelating resins, <b>Journal of Molecular Liquid</b> , 307(2020), 112973, <a href="https://doi.org/10.1016/j.molliq.2020.112973">10.1016/j.molliq.2020.112973</a>	
1.	Wang C., Chen Y., Liu Y., Ma B., Wang C., From hazardous waste to resource: Proper disposal of cadmium, <i>Separation and Purification Technology</i> , 2025, 377, 134304
2.	Feng Z-G., Huang C., Ma Q, Removal of Cr <sup>6+</sup> from aqueous solution using thiourea-glutaraldehyde double-crosslinked chitosan/sodium alginate composites, <i>Water and Environment Journal</i> , 2025, 39(3), 300-314
3.	Liu Y., Wang Z., Jiang D., Zhou Y., Chen J., Highly efficient and selective adsorption of Hg(II) from water by N, S-functionalized fly ash-based tobermor, <i>Separation and Purification Technology</i> , 2025, 361, 131285

4.	Stamer K., Baltaeva M., Manakhov A., Ayirala S., Cha D.K., Polystyrene waste-derived ion-exchange resins for water desalination, <i>Materials Chemistry and Physics</i> , 2025, 339, 130548
5.	Szwaczko K., Kolodynska D., Podkoscielna B., Functionalized TEVS-EGDMA microspheres for efficient cadmium(II) removal: Synthesis, characterization, and adsorption performance, <i>Separation and Purification Technology</i> , 2025, 359, 130496
6.	Tubon-Usca G., Centeno C., Pomasqui S., Beneduci A., Arias F.A., Enhanced Adsorption of Methylene Blue in Wastewater Using Natural Zeolite Impregnated with Graphene Oxide, <i>Applied Sciences Switzerland</i> , 2025, 15(5), 2824
7.	Ryszko U., Rusek P., Kolodynska D., Transforming industrial processes: effective removal of Cd(II) ions from wet phosphoric acid streams, <i>Chemical Engineering Journal</i> , 2025, 505, 159696
8.	Rodriguez-Otero A., Galarneau A., Drane M., Christensen J.H., Bouyssiere B., Transforming industrial processes: effective removal of Cd(II) ions from wet phosphoric acid streams, <i>Processes</i> , 2024, 12(11), 2420
9.	Tran H.D., Tran U.P.N., Nguyen D.Q., BMIm][PF6]/silicon oil/multi-walled carbon nanotubes paste electrode: Electrochemical properties and application for lead and cadmium ion determinations, <i>Journal of the Serbian Chemical Society</i> , 2024, 89(1), 63-77
10.	Sheikh M.C., Hasan M.M., Hasan M.N., Khaleque M.A., Awual M.R., Toxic cadmium(II) monitoring and removal from aqueous solution using ligand-based facial composite adsorbent, <i>Journal of Molecular Liquids</i> , 2023, 389, 122854
11.	Villa-Reyna A.L., Aguilar-Martinez M., Ochoa-Teran A., Garcia-Eia J., Galver-Ruiz J.C., Efficient and Sustainable Bidentate Amines-Functionalized Resins for Removing Ag <sup>+</sup> , Cu <sup>2+</sup> , Pb <sup>2+</sup> , and Fe <sup>3+</sup> from Water, <i>Polymers</i> , 2023, 15(13), 2778
12.	Marin N.M., Dolete G., Motelica L., Oprea O.C., Ficai A., Preparation of Eco-Friendly Chelating Resins and Their Applications for Water Treatment, <i>Polymers</i> , 2023, 15(10), 2251
13.	Marin N.M., Ficai A., Constantin L.A., Motelica L., Trusca R., New Chelate Resins Prepared with Direct Red 23 for Cd <sup>2+</sup> , Ni <sup>2+</sup> , Cu <sup>2+</sup> and Pb <sup>2+</sup> Removal, <i>Polymers</i> , 2022, 14(24), 5523
14.	Gupta A., Dubey P., Kumar M., Pathak N., Hasanuzzaman M., Consequences of Arsenic Contamination on Plants and Mycoremediation-Mediated Arsenic Stress Tolerance for Sustainable Agriculture, <i>Plants</i> , 2022, 11(23), 3220
15.	Xu C., Xu Y., Zhong D., Wang H., Shen H., Zr <sup>4+</sup> cross-linked chitosan-thiourea composite for efficient detoxification of Cr(VI) ions in aqueous solution, <i>Carbohydrate Polymers</i> , 2022, 296, 119872
16.	Zandi-Mehri E., Taghavi L., Moeinpour F., Khosravi I., Ghasemi S., Modification of halloysite nanotubes by hydroxyl terminated triazine-based dendritic polymer for efficient adsorptive removal of Cd (II) from aqueous media, <i>Applied Organometallic</i> , 2022, 36(10), e6816
17.	Chu S., feng X., Liu C., Wu H., Liu X., Advances in Chelating Resins for Adsorption of Heavy Metal Ions, <i>Industrial and Engineering Chemistry Research</i> , 2022, 61(31), 11309-11328
18.	Lahnafi A., Elgamouz A., Tijani N., Jabel L., Kawde A.N., Hydrothermal synthesis and electrochemical characterization of novel zeolite membranes supported on flat porous clay-based microfiltration system and its application of heavy metals removal of synthetic wastewaters, <i>Microporous and Mesoporous Materials</i> , 2022, 334, 111778
19.	Geng H., Xu Y., Dai x-H., Yang D.H., Overview and prospect of the application of ion exchange resin in treatment of sewage sludge, <i>Zhongguo Huanjing Kexue China Environmental Science</i> , 2022, 42(11), 5220-5228
20.	Moiseev D.V., James B.R., Phospha-Mannich reactions of PH <sub>3</sub> and its analogs, <i>Phosphorous Sulfur and Silicon and the Related Elements</i> , 2022, 197(4), 277-326
21.	Owija N.Y., Kosa S.A., Abdel salam M., Removal of cadmium ions from aqueous solution by zero valent iron nanoparticles: Equilibrium and thermodynamic studies, <i>Journal of Molecular Liquids</i> , 2021, 342, 117462
22.	Hu M., Zhang X., Ji Y., Jin X., Xia S., Comparison of Adsorption Mechanisms of Modified Zeolite Coated with Two Different Fe-CO <sub>3</sub> -Layered Double Hydroxides for Cd(II) Removal, <i>Research of Environmental Science</i> , 2021, 34(11), 2655-2664
23.	Nuengmatcha P., Mercapto-Functionalized Magnetic Graphene Quantum Dots as Adsorbent for Cd <sup>2+</sup> Removal from Wastewater, <i>Environmental Processes</i> , 2021, 8(3), 1289-1306
24.	Foroutan R., Peighambardoust S.J., Hosseini S.S., Akbari A., Ramavandi B., Hydroxyapatite biomaterial production from chicken (femur and beak) and fishbone waste through a chemical less method for Cd <sup>2+</sup> removal from shipbuilding wastewater, <i>Journal of Hazardous Materials</i> , 2021, 413, 125428
25.	Abdulbur-Alfakhoury E., Leermakers M., Elimination of interferences in the determination of platinum, palladium and rhodium by diffusive gradients in thin films (DGT) and inductively coupled plasma mass spectrometry (ICP MS) using selective elution, <i>Talanta</i> , 2021, 223, 121771
26.	Alguacil, F.J., The removal of toxic metals from liquid effluents by ion exchange resins. Part XIV: Indium(III)/H <sup>+</sup> /Dowex-400 [La eliminación de metales tóxicos presentes en efluentes líquidos mediante resinas de intercambio iónico. Parte XIV: Indium(III)/H <sup>+</sup> /Dowex-400, 2020, <i>Revista de Metalurgia</i> , 56 (4), art. no. e184.
27.	Foroutan, R., Peighambardoust, S.J., Hosseini, S.S., Akbari, A., Ramavandi, B., Hydroxyapatite biomaterial production from chicken (femur and beak) and fishbone waste through a chemical less method for Cd <sup>2+</sup> removal from shipbuilding wastewater(2021) <i>Journal of Hazardous Materials</i> , 413, art. no. 125428

28.	Abdulbur-Alfakhoury, E., Leermakers, M., Elimination of interferences in the determination of platinum, palladium and rhodium by diffusive gradients in thin films (DGT) and inductively coupled plasma mass spectrometry (ICP MS) using selective elution, (2021) <i>Talanta</i> , 223, art. no. 121771
C. Modroga, AM. Pande, C. Bobirica, D. Dobrota, AM. Dancila, G. Garleanu, OD Orbuliet, C. Borda, D. Garleanu, C. Orbeci, Synthesis, characterization and sorption capacity examination for a novel hydrogel composite based on gellan gum and graphene oxide (GG/GO), <i>Polymers</i> , 12(2020), 1182, 10.3390/polym12051182	
1.	Afsheen Shah L.A., Salman S.M., Yoo H., Quick catalytic degradation of methylene blue using gellan gum-co-polymethacrylic acid hydrogel supported Ni-Cu bimetallic composite, <i>Materials Science and Engineering B</i> , 2026, 323, 118690
2.	Xin W.G., Jiang Y.H., Zhao Y.T., Liu S.J., Suo H.Y., Encapsulation of <i>Lactiplantibacillus plantarum</i> in a sodium alginate/pectin/tea polyphenol complex: Enhancing stability and bioactivity for fermented milk products, <i>Food Chemistry</i> , 2025, 488, 144851
3.	Zhi J., Bai X., Wang Q., Kumar A., Dhiman P., Natural gums-derived hydrogels for adsorptive removal of heavy metals: A review, <i>International Journal of Biological Macromolecules</i> , 2025, 310, 143350
4.	Rai N., Marwaha D., Gautam S. Bakshi A.K., Mishra P.R., Intratumoral delivery of Mitomycin C using bio-responsive Gellan Gum Nanogel: In-vitro evaluation and enhanced chemotherapeutic efficacy, <i>International Journal of Biological Macromolecules</i> , 2025, 302, 140306
5.	Segovia-Gutierrez J.P., Agudo J.A.R., Binder N., Utz J., Germann N., Dynamic mechanical analysis of alginate/gellan hydrogels under controlled conditions relevant to environmentally sensitive applications, <i>Carbohydrate Polymers</i> , 2025, 352, 123180
6.	Ratke R.F., de Sousa A., Chaves D.V., Gonzales H.H.S., Morales-Aranibar L., Dynamic mechanical analysis of alginate/gellan hydrogels under controlled conditions relevant to environmentally sensitive applications, <i>Scientific Reports</i> , 2024, 14(1), 2159
7.	Yang Z., Ma Y., Jiang Q., Ren Z., Comigration Behavior of Cr(VI) and Microplastics and Remediation of Microplastics-Facilitated Cr(VI) Transportation in Saturated Porous Media, <i>Polymers</i> , 2024, 16(23), 3271
8.	Cao L., Van de Walle D., Hirmz H., Parakhonskiy B.V., Skirtach A.G., Food-based biomaterials: pH-responsive alginate/gellan gum/carboxymethyl cellulose hydrogel beads for lactoferrin delivery, <i>Biomaterials Advances</i> , 2024, 165, 213999
9.	Tincu C.E., Hamcerencu M., Secula M.S., Popa M., Volf I., A Natural Carbon Encapsulated in Gellan-Based Hydrogel Particles Designed for Environmental Challenges, <i>Gels</i> , 2024, 10(11), 713
10.	Loukelis K., Papadogianni D., Kruse J.E., Chatzinikolaïdou M., The effects of gellan gum concentration on electrospinning and degradation of flexible, crosslinker-free scaffolds for bone tissue engineering, <i>Carbohydrate Polymer Technologies and Applications</i> , 2024, 7, 100454
11.	Thinkohkaew K., Jonjaroen V., Niamsiri N., Suppavorasatit I., Potiyaraj P., Microencapsulation of probiotics in chitosan-coated alginate/gellan gum: Optimization for viability and stability enhancement, <i>Food Hydrocolloids</i> , 2024, 151, 109788
12.	Khademolqorani S., Banitaba S.N., Azizi S., Kouhi M., Gellan gum-based nanocomposite hydrogels, <i>Application of Gellan Gum as a Biomedical Polymer</i> , 2024, 171-197
13.	Ali R.H.M., Hsu C.Y., Thalij K.M., Dawood F.A., Ahmed N.M., An efficient magnetic nanoadsorbent based on functionalized graphene oxide with gellan gum hydrogel embedded with MnFe layered double hydroxide for adsorption of Indigo carmine from water, <i>International Journal of Biological Macromolecules</i> , 2023, 253, 127479
14.	Jiang Q., Ma Y., He J., ren Z., Highly Stable, Mechanically Enhanced, and Easy-to-Collect Sodium Alginate/NZVI-rGO Gel Beads for Efficient Removal of Cr(VI), <i>Polymers</i> , 2023, 15(18), 3764
15.	Hamza M.F., Guibal E., Wei Y., Abu Khoziem H.A., Mashaal N.M., Functionalization of thiosemicarbazide/gellan gum for the enhancement of cadmium removal from aqueous solutions – Grafting of tributyl phosphate derivative, <i>Journal of Water Process Engineering</i> , 2023, 54, 103928
16.	Tee W.T., Loh N.Y.L., Hiew B.Y.Z., gn S., Lee L.Y., Design and development of a high-performance 3D graphene system for adsorptive removal of organic toxins from wastewater: Mechanisms and process optimization, <i>Chemical Engineering Research and Design</i> , 2023, 195, 132-150
17.	Bosco C.D., De Cesaris M.G., Felli N., Fanali S., Gentili A., Carbon nanomaterial-based membranes in solid-phase extraction, <i>Microchimica Acta</i> , 2023, 190(5), 175
18.	Elgarahy A.M., Mostafa H.Y. Zaki E.G., Akhdhar A., Guibal E., Methylene blue removal from aqueous solutions using a biochar/gellan gum hydrogel composite: Effect of agitation mode on sorption kinetics, <i>International Journal of Biological Macromolecules</i> , 2023, 232, 123355
19.	DAmora U., Ronca A., Scialla S., Raucci M.G., Ambrosio L., Bioactive Composite Methacrylated Gellan Gum for 3D-Printed Bone Tissue-Engineered Scaffolds, <i>Nanomaterials</i> , 2023, 13(4), 772
20.	Elgamal A.M., Abd El-Ghany N.A., Saad G.R., Highly reactive adsorbent based on carboxymethyl xanthan gum-g-poly(4-vinylpyridine) copolymer for the potential removal of Acid Orange 10 dye and Cr(VI) ions for water treatment, <i>Journal of Applied Polymer Science</i> , 2022, 139(47), e53179
21.	Nguyen H.T., Ngwabebhoh F.A., Saha N., Saha T. Saha P., Gellan gum/bacterial cellulose hydrogel crosslinked with citric acid as an eco-friendly green adsorbent for safranin and crystal violet dye removal, <i>International Journal of Biological Macromolecules</i> , 2022, 222, 77-89
22.	Zhang P., Zou K., Yuan L., Qing T.P., Feng B., A biomass resource strategy for alginate-polyvinyl alcohol double network hydrogels and their adsorption to heavy metals, <i>Separation and Purification Technology</i> , 2022, 301, 122050

23.	Mostovoy A., Shcherbakov A., Yakovlev A., Arzamastsev S., Lopukhova M., Reinforced Epoxy Composites Modified with Functionalized Graphene Oxide, <i>Polymers</i> , 2022, 14(2), 338
24.	Zulkipli N.A., Khalik W.M.A.W.M., Arffin M.M., Kamaruzaman S., Loh S.H., Multiwalled Carbon Nanotubes-Encapsulated Gellan Gum Membrane for Micro-Solid Phase Extraction of Selected Polycyclic Aromatic Hydrocarbons in Environmental Water and Beverages, <i>Chromatographia</i> , 2022, 85(1), 23-33
25.	Racovita S., Lungan M.A., Vasiliu A.L. Vasiliu S., Mihai M., Sorption Behavior of Grafted Porous Microparticles Based on Methacrylic Monomers and Chitosan/Gellan Gum towards Copper(II) and Nickel(II) Ions in Aqueous Solutions, <i>Chemistryselect</i> , 2021, 6(44), 12512-12523
26.	Keirudin, A.A., Zainuddin, N., Yusof, N.A., Crosslinked carboxymethyl sago starch/citric acid hydrogel for sorption of pb <sup>2+</sup> , cu <sup>2+</sup> , ni <sup>2+</sup> and zn <sup>2+</sup> from aqueous solution, 2020, <i>Polymers</i> , 12 (11), art. no. 2465, pp. 1-21
27.	Trucco, D., Vannozzi, L., Teblum, E., Telkhozhayeva, M., Nessim, G.D., Affatato, S., Al-Haddad, H., Lisignoli, G., Ricotti, L, Graphene Oxide-Doped Gellan Gum-PEGDA Bilayered Hydrogel Mimicking the Mechanical and Lubrication Properties of Articular Cartilage, (2021) <i>Advanced Healthcare Materials</i> , 10 (7), art. no. 2001434
28.	Umar Aslam Khan, M., Haider, S., Haider, A., Izwan Abd Razak, S., Rafiq Abdul Kadir, M., Shah, S.A., Javed, A., Shakir, I., Al-Zahrani, A.A, Development of porous, antibacterial and biocompatible GO/n-HAp/bacterial cellulose/ $\beta$ -glucan biocomposite scaffold for bone tissue engineering, (2021) <i>Arabian Journal of Chemistry</i> , 14 (2), art. no. 102924
29.	Özgür, D.Ö., Green synthesis of highly dispersed Ag nanoparticles on polydopamine-functionalized graphene oxide and their high catalytic reduction reaction, (2021) <i>Microporous and Mesoporous Materials</i> , 314, art. no. 110861
OS. Serbanescu, A.M. Pandele, F. Miculescu, SI. Voicu, Synthesis and characterization of cellulose acetate membranes with self-indicating properties by changing the membrane surface color for separation of Gd(III), <i>Coatings</i> , 10(2020), 468, <a href="https://doi.org/10.3390/coatings10050468">10.3390/coatings10050468</a>	
1.	Abbas M.A., Shah A.A., Lee H.T., Cho Y.H., Park H., Homogeneous electrospun regenerated cellulose nanofiber-based membrane adsorber for membrane chromatography applications, <i>Cellulose</i> , 2025, 32(9), 5523-5537
2.	Habiba U.E., Nadeem S., Answer A., Rashid N., Nawaz H., Raman spectroscopy of soft tissues and body fluids, <i>Applied Raman Spectroscopy Concepts Instrumentation Chemometrics and Life Science Applications</i> , 2025, 213-235
3.	Sayadi S., Brouillette F., Silylation of phosphorylated cellulosic fibers with an aminosilane, <i>Carbohydrate Polymers</i> , 2024, 343, 122500
4.	Ibrahim M.I.A., Abozamil I.S.M., Abdel-Kawi M.A., Soliman M., Hamdona S.K., Cost-effective seawater desalination by photothermal membranes composed of biopolymers-doped graphene oxide using direct solar steam generation strategy, <i>Desalination</i> , 2024, 579, 117481
5.	Gohain M.B., Karki S., Ingole P.G., Cellulose acetate, a source from discarded cigarette butts for the development of mixed matrix loose nanofiltration membranes for selective separation, <i>International Journal of Biological Macromolecules</i> , 2024, 271, 132197
6.	Ullah A., Lee G.J., Kwon H.T., Lim S.I., Covalent immobilization of human serum albumin on cellulose acetate membrane for scavenging amyloid beta – A stepping extracorporeal strategy for ameliorating Alzheimer's disease, <i>Colloids and Surface B Biointerfaces</i> , 2024, 234, 113753
7.	Oprea M., Voicu S.I., Cellulose acetate-based membranes for the removal of heavy metals from water in the context of circular economy, <i>Industrial Crops and Products</i> , 2023, 206, 117716
8.	Voicu S.I., Thakur V.K., Green polymers-based membranes for water reuse in a circular economy context, <i>Current Opinion in Green and Sustainable Chemistry</i> , 2023, 43, 100852
9.	Ma ruf A, Puspawiningtiyas E., Synthesis and Characterization of Cellulose Acetate Membrane from Cassava Peel for Microfiltration, <i>Natura Environment and Pollution Technology</i> , 2023, 22(3), 1513-1518
10.	Mohan C., Kumari P., Kumari N., Negi A., Fabrication of Colored Polymeric Membrane Using Clay-Based Nano Pigments of Safranin O (SO) Dye, <i>Membranes</i> , 2023, 13(7), 619
11.	Gao Z., Cizdziel J.V., Chen L., Microplastics profile in sludge from a university wastewater treatment plant and the influence of chemical digestions on Nile red stained microplastics, <i>Journal of Environmental Chemistry Engineering</i> , 2023, 11(3), 109671
12.	Ghitman J., Voicu S.I., Controlled drug delivery mediated by cyclodextrin-based supramolecular self-assembled carriers: From design to clinical performances, <i>Carbohydrate Polymer Technologies and Applications</i> , 2023, 5, 100266
13.	Oprea M., Voicu S.I., Cellulose Acetate-Based Materials for Water Treatment in the Context of Circular Economy, <i>Water Switzerland</i> , 2023, 15(10), 1860
14.	Ghorani B., Emadzadeh B., Fooladi E., Tucker N., Designing a colorimetric nanosensor based on dithizone and cholesteric liquid crystals loaded in electrospun cellulose acetate nanofibers: Monitoring the quality of pistachio as a case study, <i>Journal of Applied Polymer Science</i> , 2023, 140(7), e53472

15.	Gayathri V., Lobo N.P., Vikash V.L., Kamini N.R., Samanta D., Functionalization of Bacterial Cellulose and Related Surfaces Using a Facile Coupling Reaction by Thermoresponsive Catalyst, ACS Biomaterials Science and Engineering, 2023, 9(2), 625-641
16.	Radu E.R., Voicu S.I., Rhakur V.K., Polymeric Membranes for Biomedical Applications, Polymers, 2023, 15(3), 619
17.	Pylypchuk I., Kovach V., Iatsyshyn A., Kutsenko V., Taraduda D., Development Boron and Gadolinium-Containing Composite Materials Based on Natural Polymers for Protection Against Neutron Radiation, Studies in Systems Decision and Control, 2023, 481, 527-540
18.	Voicu S.I., Thakur VK, Graphene-based composite membranes for nanofiltration: performances and future perspectives, Emergent Materials, 2022, 5(5), 1429-1441
19.	Radu E.R., Voicu S.I., Functionalized Hemodialysis Polysulfone Membranes with Improved Hemocompatibility, Polymers, 2022, 14(6), 1130
20.	Asiri a.M., Pugliese V., Petrosino F., Mukherjee D., Chakraborty S., Photocatalytic Degradation of Textile Dye on Blended Cellulose Acetate Membranes, Polymers, 2022, 14(3), 636
21.	Mofokeng L.E., Hlekelele L., Moma J., Tetana Z.N., Chauke V.P., Energy-Efficient CuO/TiO <sub>2</sub> @GCN Cellulose Acetate-Based Membrane for Concurrent Filtration and Photodegradation of Ketoprofen in Drinking and Groundwater, Applied Sciences Switzerland, 2022, 12(3), 1649
22.	Witri P.S., Rahmayetty, Toha M., Kanani N., Wardhono E.Y., Energy-Efficient CuO/TiO <sub>2</sub> @GCN Cellulose Acetate-Based Membrane for Concurrent Filtration and Photodegradation of Ketoprofen in Drinking and Groundwater, Materials Science Forum, 2022, 1057 MSF, 48-45
23.	Rana AK., Gupta V.K., Saini A.K., Abdellattifaand M.H., Thakur V.K., Water desalination using nanocelluloses/cellulose derivatives based membranes for sustainable future, Desalination, 2021, 520, 115359
24.	Park W, Kim H, Park H., Hong S.J., Bahk Y.M., Biochar as a low-cost, eco-friendly, and electrically conductive material for terahertz applications, Scientific Reports, 2021, 11(1), 18498
25.	Abu-Dalo M.A., Al-Rosan S.A., Albiss B.A., Photocatalytic degradation of methylene blue using polymeric membranes based on cellulose acetate impregnated with zno nanostructures, Polymers, 2021, 13(19), 3451
26.	Wibisono Y., Amanah A., Sukoyo A., Anugroho F., Kurniati E., Activated carbon loaded mixed matrix membranes extracted from oil palm empty fruit bunches for vehicle exhaust gas adsorbers, Evergreen, 2021, 8(3), 593-600
27.	Andrade M.C., Pereira J.C., de Ameida N., Faria M., Goncalves M.C., Improving hydraulic permeability, mechanical properties, and chemical functionality of cellulose acetate-based membranes by co-polymerization with tetraethyl orthosilicate and 3-(aminopropyl)triethoxysilane, Carbohydrate Polymers, 2021, 261, 117813
28.	Palla-Papavlu A., Voicu S.I., Dinescu M., Sensitive materials and coating technologies for surface acoustic wave sensors, Chemosensors, 2021, 9(5), 105
29.	Zhang Z., Zhao Z, Lu Y., Wang C., Li J., One-step synthesis of eu <sup>3+</sup> -modified cellulose acetate film and light conversion mechanism, Polymers, 2021, 13(1), 1-16
31.	Abdelrahman, M.S., Khattab, T.A., Aldalbahi, A., Hatshan, M.R., El-Naggar, M.E., Facile development of microporous cellulose acetate xerogel immobilized with hydrazone probe for real time vapochromic detection of toxic ammonia, 2020, Journal of Environmental Chemical Engineering, 8 (6), art. no. 104573
32.	Oprea, M., Voicu, S.I., Cellulose composites with graphene for tissue engineering applications, 2020, Materials, 13 (23), art. no. 5347, pp. 1-24
33.	Oprea, M., Voicu, S.I., Recent advances in applications of cellulose derivatives-based composite membranes with hydroxyapatite, 2020, Materials, 13 (11), art. no. 2481
34.	Voicu, S.I., Thakur, V.K., Aminopropyltriethoxysilane as a linker for cellulose-based functional materials: New horizons and future challenges, 2021, Current Opinion in Green and Sustainable Chemistry, 30, art. no. 100480
35.	Andrade, M.C., Pereira, J.C., de Almeida, N., Marques, P., Faria, M., Gonçalves, M.C, Improving hydraulic permeability, mechanical properties, and chemical functionality of cellulose acetate-based membranes by co-polymerization with tetraethyl orthosilicate and 3-(aminopropyl)triethoxysilane, (2021) Carbohydrate Polymers, 261, art. no. 117813
36.	Zhang, Z., Zhao, Z., Lu, Y., Wang, D., Wang, C., Li, J., One-step synthesis of eu <sup>3+</sup> -modified cellulose acetate film and light conversion mechanism, (2021) Polymers, 13 (1), art. no. 113, pp. 1-16
CA. Dascalu, F. Miculescu, A. E. Constantinescu, T. M. Butte, A. M. Pandele, RC Ciocoiu, S I. Voicu, L.T. Ciocan, Novel synthesis of core-shell biomaterials from polymeric filaments with a bioceramic coating for biomedical applications, <b>Coatings</b> , 2020, 10(3), 283, 10.3390/coatings10030283	

1.	Talukder M.M.H., Islam M.S., Arifuzzaman M., Agro-waste to high-performance composites: Cow bone particles as renewable reinforcements for enhanced mechanical and fire safety, <i>Hybrid Advances</i> , 2025, 10, 100504
2.	Liu X., Xia Z., Wang Y., Meng Z., Lian H., Zinc-doped inorganic bioactive materials: a comprehensive review of properties and their applications in osteogenesis, antibacterial, and hemostasis, <i>Applied Materials Today</i> , 2024, 40, 102393
3.	Alonso-Fernandez I., Haugen H.J., Lopez-Pena M., Gonzales-Cantalapiedra A., Munoz F., Use of 3D-printed polylactic acid/bioceramic composite scaffolds for bone tissue engineering in preclinical in vivo studies: A systematic review, <i>Acta Biomaterialia</i> , 2023, 168, 1-21
4.	Mocanu A.C., Miculescu F., Stan G.E., Butte T.M., Ciocan L.T., Development of ceramic coatings on titanium alloy substrate by laser cladding with pre-placed natural derived-slurry: Influence of hydroxyapatite ratio and beam power, <i>Ceramics International</i> , 2023, 49(7), 10445-10454
5.	Robu A., Ciocoiu R., Antoniac A., Cristea M.B., Carstoc I.D., Bone Cements Used for Hip Prosthesis Fixation: The Influence of the Handling Procedures on Functional Properties Observed during In Vitro Study, <i>Materials</i> , 2022, 15(9), 2967
6.	Kim Y., Kwon H.J., Kook J.W., Hwang K.S., Lee J.Y., Wetting properties and morphological behavior of core-shell polymer-based nanoparticle coatings, <i>Progress in Organic Coating</i> , 2022, 163, 106606
7.	Sola A., Trinchi A., Fused Deposition Modeling of Composite Materials, <i>Fused Deposition Modeling of Composite Materials</i> , 2022, 1-448
8.	Maleki-Ghaleh H., Hossein Siadati M., Fallah A., Beygi-Khosrowshahi Y., Adibkia K., Effect of zinc-doped hydroxyapatite/graphene nanocomposite on the physicochemical properties and osteogenesis differentiation of 3D-printed polycaprolactone scaffolds for bone tissue engineering, <i>Chemical Engineering Journal</i> , 2021, 426, 131321
9.	Diez-Escudero A., Andersson B., Persson C., Hailer N.P., Hexagonal pore geometry and the presence of hydroxyapatite enhance deposition of mineralized bone matrix on additively manufactured polylactic acid scaffolds, <i>Materials Science and Engineering C</i> , 2021, 125, 112091
10.	Vranceanu, D.M., Ionescu, I.C., Ungureanu, E., Cojocaru, M.O., Vladescu, A., Cotrut, C.M., Magnesium doped hydroxyapatite-based coatings obtained by pulsed galvanostatic electrochemical deposition with adjustable electrochemical behavior, 2020, <i>Coatings</i> , 10 (8), art. no. 727
11.	Guo, P., Wang, F., Duo, T., Xiao, Z., Xu, A., Liu, R., Jiang, C., Facile fabrication of methylcellulose/PLA membrane with improved properties, 2020, <i>Coatings</i> , 10 (5), art. no. 499
12.	Diez-Escudero, A., Andersson, B., Persson, C., Hailer, N.P., Hexagonal pore geometry and the presence of hydroxyapatite enhance deposition of mineralized bone matrix on additively manufactured polylactic acid scaffolds, (2021) <i>Materials Science and Engineering C</i> , 125, art. no. 112091
M. Ionita, E. Vasile, L.E. Crica, S.I. Voicu, <b>A.M. Pandele</b> , S. Dinescu, L. Predoiu, B. Galateanu, A. Hermenean, M. Costache, Synthesis, characterization and in vitro studies of polysulfone/graphene oxide composite membranes, <b>Composites Part B</b> , 2015, 72, 108-115, DOI: 10.1016/j.compositesb.2014.11.040	
1.	Bhattacharyya S., Hera M., Chakraborty S., Calabro V., Algeri C., Synthesis, characterization and in vitro studies of polysulfone/graphene oxide composite membranes, <i>Separation and Purification Technology</i> , 2025, 375, 133714
2.	Prasetya N.B.A., Masfufah F.I.S., Ngadiwiyanana N., Yassaroh Y., Wulandari R., pH-sensitive chitosan/graphene oxide films enriched with red cabbage anthocyanins for visual spoilage detection in chicken meat, <i>International Journal of Biological Macromolecules</i> , 2025, 329, 147866
3.	Puri S., Narayanan A., Nellur U., Praveen B.M. Padaki M., In Situ B-gC3N4 Mixed Matrix Membrane Strategy for Enhanced Dye Removal: A Pathway to Exceptional Water Purification Efficiency, <i>Polymers for Advanced Technologies</i> , 2025, 36(9), e70327
4.	Dhongade S.P., Malkapuram S.T., Sonawane S.H., High-Performance Graphene Oxide-Incorporated Cellulose Acetate Membranes for Efficient Dye Wastewater Treatment, <i>Chemistryselect</i> , 2025, 10(31), e01810
5.	Andrade-Guel M., Cabello-Alvarado C.J., Nery-Flores S.D., Quinones-Jurado Z.V., Caero L.C., Nanocomposite Polysulfone/CB Modified by Melt Extrusion and Solution Mixing for Enhanced Removal of Uremic Toxins, <i>Materials</i> , 2025, 18(14), 3352
6.	Swefi Y.M., Isawi H., Ali M.E.A., Khalil E.M., El-Aassar A.H.M., A comparative investigation on the performances of different nanocomposite ultrafiltration membranes for wastewater reuse, <i>Surfaces and Interfaces</i> , 2025, 64, 106361
7.	Golgoli M., Najafi M., Farahbakhsh J., Johns M.L. Zargar M., Microplastics-resistant FO membranes: Zwitterionic MOF nanoparticles for superior fouling control, <i>Journal of Environmental Chemical Engineering</i> , 2025, 13(3), 115668
8.	Emon S.H., Hossain M.I., Khanam M., Yi D. K., Expanding Horizons: Taking Advantage of Graphene's Surface Area for Advanced Applications, <i>Applied Sciences Switzerland</i> , 2025, 15(8), 4145

9.	Salah Z., Bhattacharyya S., Cozzolino V., Amar R.B., Chakraborty S., Graphene oxide- polysulfone nanocomposite membranes for diclofenac removal, <i>Emergent Materials</i> , 2025, 8(3), 1671-1685
10.	Gizzatov A.S., Petrov M.A., Eremin Y.S., Grekhov A.M., Effect of Graphene Oxide on the Permeability of Asymmetric Polysulfone Membranes, <i>Russian Journal of Physical Chemistry A</i> , 2024, 98(12), 2921-2925
11.	Olatunji S.O., Camacho L.M., Dry-wet phase inversion GO-PSF membranes with pH-modified GO for DCMD desalination, <i>Desalination</i> , 2024, 587, 117915
12.	Farahbakhsh J., Najafi M., Golgoli M., Razmjou A., Zargar M., Microplastics and dye removal from textile wastewater using MIL-53 (Fe) metal-organic framework-based ultrafiltration membranes, <i>Chemosphere</i> , 2024, 364, 143170
13.	Golgoli M., Farahbakhsh J. Najafi M., Johns M. L., Zargar M., Resilient forward osmosis membranes against microplastics fouling enhanced by MWCNTs/UiO-66-NH <sub>2</sub> hybrid nanoparticles, <i>Chemosphere</i> , 2024, 359, 142180
14.	Zhao W., Jin X., Chen K., Fan Z., Xiao C., Facile method to fabricate robust homogeneous braid-reinforced cellulose acetate hollow fiber membranes with enhanced physiochemical properties, <i>Cellulose</i> , 2024, 31(1), 395-410
15.	Taha Y.R., Zrelli A., Hajji N., Nemth Z., Hernadi K., Optimum content of incorporated nanomaterials: Characterizations and performance of mixed matrix membranes a review, <i>Desalination and Water Treatment</i> , 2024, 317, 100088
16.	Maqbool A., Shahid A., jahan Z., M. Kamel E., Saeed Akhtar M., Development of ZnO-GO-NiO membrane for removal of lead and cadmium heavy metal ions from wastewater, <i>Chemosphere</i> , 2023, 139622
17.	Golgoli M., Farahbakhsh J., Asif A.H., Johns M.L., Zargar M., Harnessing the power of metal-organic frameworks to develop microplastic fouling resistant forward osmosis membranes, <i>Journal of Membrane Science</i> , 2023, 682, 121766
18.	Puppi D., Braccini S., Battisti A., Pecorini G., Samal S.K., Additive Manufacturing of Wet-Spun Polysulfone Medical Implants, <i>ACS Biomaterials Science and Engineering</i> , 2023, 9(9), 5418-5429
19.	Kavitha J., Rajalakshmi M., Phani A.R., Sherugar P., Padaki M., A transport channel-regulated graphene oxide-based composite membranes for salt rejection, <i>International Journal of Environmental Science and Technology</i> , 2023, 20(9), 10031-10048
20.	Khoshchehre M.R., Saljoughi E., Kiani S., High-performance CO <sub>2</sub> separation membranes: comparison of graphene oxide and carboxylated graphene oxide nanofillers, <i>Polymer Bulletin</i> , 2023, 80(8), 8483-8509
21.	Idowu O.E., Latif A.A., Faziliani S.N., Suzylawati I., Functionalized bi-polymeric inclusion membrane for pharmaceutical wastewater remediation: A preliminary investigation, <i>Aip Conference Proceedings</i> , 2023, 2785(1), 06001
22.	Sarac Z., Kilic A., Tasdelen-Yucedag C., Optimization of electro-blown polysulfone nanofiber mats for air filtration applications, <i>Polymer Engineering and Science</i> , 2023, 63(3), 723-737
23.	Sasikumar B., Arthanareeswaran G., Construction of selective gas permeation channels in polymeric membranes using nanocage tuned ionic liquid/MIL-53 (Al) filler nanoparticles for effective CO <sub>2</sub> separation, <i>Journal of Natural Gas Science and Engineering</i> , 2022, 106, 104728
24.	Chiticaru E.A., Ionita M., Graphene toxicity and future perspectives in healthcare and biomedicine, <i>Flatchem</i> , 2022, 35, 100417
25.	Igder A., Cai W., Luo X., Nosrati A., Raston C.L., Vortex-Fluidic-Mediated Fabrication of Polysulfone Ultrafiltration Membranes Incorporating Graphene Oxide, <i>ACS Applied Polymer Materials</i> , 2022, 4(6), 4131-4143
26.	Rybak A., Rybak A., Boncel S., Kaszuwara W., Kolev S.D., Hybrid organic-inorganic membranes based on sulfonated poly (ether ether ketone) matrix and iron-encapsulated carbon nanotubes and their application in CO <sub>2</sub> separation, <i>RSC Advances</i> , 2022, 12(21), 13367-13380
27.	Siddique T., Balu R., Mata J., Dutta N.K., Choudhury N.K., Electrospun Composite Nanofiltration Membranes for Arsenic Removal, <i>Polymer</i> , 2022, 14(10), 1980
28.	Chiulan I., Voicu S.I., Batalu D., The Use of Graphene and Its Derivatives for the Development of Polymer Matrix Composites by Stereolithographic 3D Printing, <i>Applied Sciences Switzerland</i> , 2022, 12(7), 3521
29.	Kumar A., Kumar R., Misra N., Tripathi J.K., Srivastava A.K., Electronic structures and properties of small (BCN) x (x =1-5) clusters and (BCN) 12 nanotube, <i>Pramana Journal of Physics</i> , 2022, 96(1), 12
30.	Kausar A., Bocchetta P., Polymer/Graphene Nanocomposite Membranes: Status and Emerging Prospects, <i>Journal of Composites Science</i> , 2022, 6(3), 76
31.	Moradienayat M., Olmos D., Gonzalez-Benito J., Airbrushed Polysulfone (PSF)/Hydroxyapatite (HA) Nanocomposites: Effect of the Presence of Nanoparticles on Mechanical Behavior, <i>Polymers</i> , 2022, 14(4), 753

32.	Rybak A., Rybak A., Kaszuwara W., Kolanowska A., Kolev S.D., Characteristics of Inorganic–Organic Hybrid Membranes Containing Carbon Nanotubes with Increased Iron-Encapsulated Content for CO <sub>2</sub> Separation, <i>Membranes</i> , 2022, 12(2), 132
33.	Sunil K., Sherugar P., Rao S., Arthanareeswaran G., Padaki M., Prolific approach for the removal of dyes by an effective interaction with polymer matrix using ultrafiltration membrane, <i>Journal of Environmental Chemical Engineering</i> , 2021, 9(6), 106328
34.	Sainath K., Kumari P., Bellare J., Zeolitic imidazolate framework-8 nanoparticles coated composite hollow fiber membranes for CO <sub>2</sub> /CH <sub>4</sub> separation, <i>Journal of Environmental Chemical Engineering</i> , 2021, 9(5), 106052
35.	Rybak A., Rybak A., Methods of ensuring energy security with the use of hard coal—the case of Poland, <i>Energies</i> , 2021, 14(18), 5609
36.	Anbealagan L.D., Ng T.Y.S., Chew T.L., Ho C.D., Jawad Z.A., Modified zeolite/polysulfone mixed matrix membrane for enhanced CO <sub>2</sub> /CH <sub>4</sub> separation, <i>Membranes</i> , 2011, 11(8), 630
37.	Bouchareb, S., Doufnoune, R., Riahi, F., Cherif-Silini, H., Belbahri, L., High performance of polysulfone/graphene oxide-silver nanocomposites with excellent antibacterial capability for medical applications, (2021) <i>Materials Today Communications</i> , 27, art. No. 102297
38.	Sainath K., Modi A., Bellar J., CO <sub>2</sub> /CH <sub>4</sub> mixed gas separation using graphene oxide nanosheets embedded hollow fiber membranes: Evaluating effect of filler concentration on performance, <i>Chemical Engineering Journal Advances</i> , 2021, 5, 100074
39.	Amusa, A.A., Ahmad, A.L., Jimoh, A.K., Enhanced gas separation prowess using functionalized lignin-free lignocellulosic biomass/polysulfone composite membranes, (2021) <i>Membranes</i> , 11 (3), art. no. 202
40.	Abbasi, H., Antunes, M., Velasco, J.I., Electrical conduction behavior of high-performance microcellular nanocomposites made of graphene nanoplatelet-filled polysulfone, 2020, <i>Nanomaterials</i> , 10 (12), art. no. 2425, pp. 1-12.
41.	Syed Ibrahim, G.P., Isloor, A.M., Ismail, A.F., Farnood, R., One-step synthesis of zwitterionic graphene oxide nanohybrid: Application to polysulfone tight ultrafiltration hollow fiber membrane, 2020, <i>Scientific Reports</i> , 10 (1), art. no. 6880
42.	Oprea, M., Voicu, S.I., Cellulose composites with graphene for tissue engineering applications, (2020) <i>Materials</i> , 13 (23), art. no. 5347, pp. 1-24
43.	Mondal, S., Kumar Majumder, S., Fabrication of the polysulfone-based composite ultrafiltration membranes for the adsorptive removal of heavy metal ions from their contaminated aqueous solutions, (2020) <i>Chemical Engineering Journal</i> , 401, art. no. 126036
44.	Sainath, K., Modi, A., Bellare, J., In-situ growth of zeolitic imidazolate framework-67 nanoparticles on polysulfone/graphene oxide hollow fiber membranes enhance CO <sub>2</sub> /CH <sub>4</sub> separation, 2020, <i>Journal of Membrane Science</i> , 614, art. no. 118506
45.	Muraru, S., Ionita, M., Super Carbonaceous Graphene-based structure as a gas separation membrane: A Non-Equilibrium Molecular Dynamics Investigation, 2020, <i>Composites Part B: Engineering</i> , 196, art. no. 108140
46.	Serbanescu, O.S., Voicu, S.I., Thakur, V.K., Polysulfone functionalized membranes: Properties and challenges, 2020, <i>Materials Today Chemistry</i> , 17, art. no. 100302
47.	Karimi, A., Rajabi, M., Zahedi, P., Effect of graphene oxide content on morphology and topography of polysulfone-based mixed matrix membrane for permeability and selectivity of carbon dioxide and methane [Einfluss von Graphenoxid gehalten von polysulfonbasierter Mischmatrixmembran auf Morphologie und Topographie für die Permeabilität und Selektivität von Kohlenstoffdioxid und Methan], 2020, <i>Materialwissenschaft und Werkstofftechnik</i> , 51 (8), pp. 1137-1147
48.	Camacho, L.M., Pinion, T.A., Olatunji, S.O., Behavior of mixed-matrix graphene oxide – Polysulfone membranes in the process of direct contact membrane distillation, 2020, <i>Separation and Purification Technology</i> , 240, art. no. 116645
49.	Jaleh, B., Zare, E., Azizian, S., Qanati, O., Nasrollahzadeh, M., Varma, R.S., Preparation and Characterization of Polyvinylpyrrolidone/Polysulfone Ultrafiltration Membrane Modified by Graphene Oxide and Titanium Dioxide for Enhancing Hydrophilicity and Antifouling Properties, 2020, <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 30 (6), pp. 2213-2223
50.	Bałaaban, J., Wierzbicki, M., Zielińska, M., Szczepaniak, J., Sosnowska, M., Daniluk, K., Cysewski, D., Koczoń, P., Chwalibog, A., Sawosz, E., Effects of graphene oxide nanofilm and chicken embryo muscle extract on muscle progenitor cell differentiation and contraction, 2020, <i>Molecules</i> , 25 (8), art. no. 1991
51.	Li, Z., Wang, Y., Han, M., Wang, D., Han, S., Liu, Z., Zhou, N., Shang, R., Xie, C., Graphene Oxide Incorporated Forward Osmosis Membranes With Enhanced Desalination Performance and Chlorine Resistance, 2020, <i>Frontiers in Chemistry</i> , 7, art. no. 877
52.	Hudita, A., Galateanu, B., Dinescu, S., Costache, M., Dinischiotu, A., Negrei, C., Stan, M., Tsatsakis, A., Nikitovic, D., Lupuliasa, D., Balanescu, A., In Vitro Effects of Cetylated Fatty Acids Mixture from Celadrin on Chondrogenesis and Inflammation with Impact on Osteoarthritis, 2020, <i>Cartilage</i> , 11 (1), pp. 88-97

53.	Zhu, Z., Bai, C., Wang, L., Meng, X., Preparation and antifouling property of sulfonated graphene oxide/ polysulfone composite membrane [磺化氧化石墨烯/聚砜复合膜的制备及抗污染性能], (2019) <i>FuHeCailiaoXuebao/Acta MateriaeCompositaeSinica</i> , 36 (11), pp. 2515-2521
54.	Peña-Bahamonde, J., San-Miguel, V., Baselga, J., Fernández-Blázquez, J.P., Gedler, G., Ozisik, R., Cabanelas, J.C., Effect of polysulfone brush functionalization on thermo-mechanical properties of melt extruded graphene/polysulfone nanocomposites, (2019) <i>Carbon</i> , 151, pp. 84-93
55.	Ponnaiyan, P., Gopalakrishnan, N., Enhancement of the PSF/PVP membrane performance by Ag-ZnO incorporation, (2019) <i>Materials Research Express</i> , 6 (11), art. no. 115006
56.	Ignat, S.-R., Lazăr, A.D., Şelaru, A., Samoilă, I., Vlăsceanu, G.M., Ioniță, M., Radu, E., Dinescu, S., Costache, M., Versatile biomaterial platform enriched with graphene oxide and carbon nanotubes for multiple tissue engineering applications, (2019) <i>International Journal of Molecular Sciences</i> , 20 (16), art. no. 3868
57.	Pramila, P., Gopalakrishnan, N., Fabrication and characterization of pristine and GO incorporated pristine membranes for water purification, (2019) <i>AIP Conference Proceedings</i> , 2115, art. no. 030273
58.	Indherjith, S., Karthikeyan, S., Monica, J.H.R., Krishna Kumar, K., Graphene oxide & reduced graphene oxide polysulfone nanocomposite pellets: An alternative adsorbent of antibiotic pollutant-ciprofloxacin, (2019) <i>Separation Science and Technology (Philadelphia)</i> , 54 (5), pp. 667-674
59.	Ruiz, S., Tamayo, J.A., Ospina, J.D., Porras, D.P.N., Zapata, M.E.V., Hernandez, J.H.M., Valencia, C.H., Zuluaga, F., Tovar, C.D.G., Antimicrobial films based on nanocomposites of chitosan/poly(Vinyl alcohol)/graphene oxide for biomedical applications, (2019) <i>Biomolecules</i> , 9 (3), art. no. 109
60.	Rybak, A., Rybak, A., Kaszuwara, W., Nyc, M., Auguścik, M. Metal substituted sulfonated poly(2,6-dimethyl-1,4-phenylene oxide) hybrid membranes with magnetic fillers for gas separation, (2019) <i>Separation and Purification Technology</i> , 210, pp. 479-490.
61.	Karimi, S., Firouzfard, E., Khoshchereh, M.R. Assessment of gas separation properties and CO <sub>2</sub> plasticization of polysulfone/polyethylene glycol membranes (2019) <i>Journal of Petroleum Science and Engineering</i> , 173, pp. 13-19.
62.	Nguyen, H.T.V., Ngo, T.H.A., Do, K.D., Nguyen, M.N., Dang, N.T.T., Nguyen, T.T.H., Vien, V., Vu, T.A., Preparation and characterization of a hydrophilic polysulfone membrane using graphene oxide, (2019) <i>Journal of Chemistry</i> , 2019, art. no. 3164373
63.	Najimu, M.O., Aljundi, I.H. Separation performance of CO <sub>2</sub> by hybrid membrane comprising nanoporous carbide derived carbon (2018) <i>Journal of Natural Gas Science and Engineering</i> , 59, pp. 9-20.
64.	Rybak, A., Rybak, A., Sysel, P. Modeling of gas permeation through mixed-matrix membranes using novel computer application MOT (2018) <i>Applied Sciences (Switzerland)</i> , 8 (7), art. no. 1166, .
65.	Salimi, M., Pirouzfard, V. Preparation and characterization of a novel MMMs by comprising of PSF-HNT/TiO <sub>2</sub> nanotubes to reduce organic sediments (2018) <i>Polymer Bulletin</i> , 75 (6), pp. 2285-2299.
66.	Abudabbus, M.M., Jevremović, I., Nešović, K., Perić-Grujić, A., Rhee, K.Y., Mišković-Stanković, V. In situ electrochemical synthesis of silver-doped poly(vinyl alcohol)/graphene composite hydrogels and their physico-chemical and thermal properties (2018) <i>Composites Part B: Engineering</i> , 140, pp. 99-107.
67.	Badrinezhad, L., Ghasemi, S., Azizian-Kalandaragh, Y., Nematollahzadeh, A. Preparation and characterization of polysulfone/graphene oxide nanocomposite membranes for the separation of methylene blue from water (2018) <i>Polymer Bulletin</i> , 75 (2), pp. 469-484.
68.	Indherjith, S., Karthikeyan, S., Monica, J.H.R., Krishna Kumar, K. Graphene oxide & reduced graphene oxide polysulfone nanocomposite pellets: An alternative adsorbent of antibiotic pollutant-ciprofloxacin (2018) <i>Separation Science and Technology (Philadelphia)</i> , .
69.	Hermenean, A., Codreanu, A., Herman, H., Balta, C., Rosu, M., Mihali, C.V., Ivan, A., Dinescu, S., Ionita, M., Costache, M. Chitosan-Graphene Oxide 3D scaffolds as Promising Tools for Bone Regeneration in Critical-Size Mouse Calvarial Defects (2017) <i>Scientific Reports</i> , 7 (1), art. no. 16641, .
70.	Layek, R.K., Uddin, M.E., Kim, N.H., Tak Lau, A.K., Lee, J.H. Noncovalent functionalization of reduced graphene oxide with pluronic F127 and its nanocomposites with gum arabic (2017) <i>Composites Part B: Engineering</i> , 128, pp. 155-163.
71.	Wu, X., Fang, F., Zhang, K. Graphene oxide modified forward osmosis membranes with improved hydrophilicity and desalination performance (2017) <i>Desalination and Water Treatment</i> , 85, pp. 73-83.
72.	Xiao, S., Yu, S., Yan, L., Liu, Y., Tan, X. Preparation and properties of PPSU/GO mixed matrix membrane (2017) <i>Chinese Journal of Chemical Engineering</i> , 25 (4), pp. 408-414.
73.	Li, F., Zhao, F., Huang, M., Ma, C., Yang, B., Tian, Q. Thin-film composite membranes with nanocomposite substrate modified with graphene oxide/TiO <sub>2</sub> for forward osmosis process (2017) <i>Desalination and Water Treatment</i> , 70, pp. 64-78.

74.	Li, F., Sun, M., Cheng, Q., Tian, Q., Ma, C., Huang, M. Characterization and antifouling performance of cellulose triacetate forward osmosis membranes modified with graphene oxide (2017) <i>Desalination and Water Treatment</i> , 62, pp. 31-42.
75.	Rybak, A., Rybak, A., Kaszuwara, W., Awietjan, S., Molak, R., Sysel, P., Grzywna, Z.J. The magnetic inorganic-organic hybrid membranes based on polyimide matrices for gas separation (2017) <i>Composites Part B: Engineering</i> , 110, pp. 161-170.
76.	Wu, X., Field, R.W., Wu, J.J., Zhang, K., Polyvinylpyrrolidone modified graphene oxide as a modifier for thin film composite forward osmosis membranes (2017) <i>Journal of Membrane Science</i> , 540, pp. 251-260.
77.	Voicu, N.V., Crica, L.E., Pandele, A.M., Damian, C.M., Vasile, E., Ionita, M. Graphene oxide reinforced gelatin-poly(vinyl alcohol) porous composites for biomedical applications (2016) <i>Materiale Plastice</i> , 53 (3), pp. 399-405.
78.	Zahri, K., Goh, P.S., Ismail, A.F. The incorporation of graphene oxide into polysulfone mixed matrix membrane for CO <sub>2</sub> /CH <sub>4</sub> separation (2016) <i>IOP Conference Series: Earth and Environmental Science</i> , 36 (1), art. no. 012007, .
79.	Azarniya, A., Eslahi, N., Mahmoudi, N., Simchi, A. Effect of graphene oxide nanosheets on the physico-mechanical properties of chitosan/bacterial cellulose nanofibrous composites (2016) <i>Composites Part A: Applied Science and Manufacturing</i> , 85, pp. 113-122.
80.	Ionita, M., Crica, L.E., Vasile, E., Dinescu, S., Pandele, M.A., Costache, M., Haugen, H.J., Iovu, H. Effect of carboxylic acid functionalized graphene on physical-chemical and biological performances of polysulfone porous films (2016) <i>Polymer</i> , 92, pp. 1-12.
81.	Ali, M.E.A., Wang, L., Wang, X., Feng, X. Thin film composite membranes embedded with graphene oxide for water desalination (2016) <i>Desalination</i> , 386, pp. 67-76.
82.	Zahri, K., Wong, K.C., Goh, P.S., Ismail, A.F. Graphene oxide/polysulfone hollow fiber mixed matrix membranes for gas separation (2016) <i>RSC Advances</i> , 6 (92), pp. 89130-89139.
83.	Malas, A., Das, C.K. Effect of graphene oxide on the physical, mechanical and thermo-mechanical properties of neoprene and chlorosulfonated polyethylene vulcanizates (2015) <i>Composites Part B: Engineering</i> , 79, pp. 639-648.
84.	Ionita, M., Crica, L.E., Tiainen, H., Haugen, H.J., Vasile, E., Dinescu, S., Costache, M., Iovu, H. Gelatin-poly(vinyl alcohol) porous biocomposites reinforced with graphene oxide as biomaterials (2015) <i>Journal of Materials Chemistry B</i> , 4 (2), pp. 282-291.
<b>A. Muhulet, C. Tuncel, F. Miculescu, A.M. Pandele, C. Bobirica, C. Orbeci, L. Bobirica, A. Palla Papavlu, S.I. Voicu, Synthesis and characterization of polysulfone-TiO<sub>2</sub> decorated MWCNT composite membranes by sonochemical method, <i>Applied Physics A</i>, 2020, 126(3), 233, 10.1007/s00339-020-3408-9</b>	
1.	Lwin K.M., Kim T., Lee J., Kim S., Kim K., Cost-effective thin metal-polyphenol coating for enhancing fouling resistance of ultrafiltration membranes, <i>Sustainable Materials and Technologies</i> , 2025, 45, e01509
2.	Sponchiado P.A.I., Melo m.T., Cominal j.G., Ramos A.P., Maniglia B.C., Biomembranes Based on Potato Starch Modified by Dry Heating Treatment: One Sustainable Strategy to Amplify the Use of Starch as a Biomaterial, <i>Biomacromolecules</i> , 2025, 26(3), 1530-1540
3.	Liu P., Mao J., Fang Y., Liu Y., wang L., Preparation of Modified Composite Nanofiltration Membrane Synergistically Using Carboxylic Multi-walled Carbon Nanotube and β-cyclodextrin, <i>Journal Wuhan University of Technology Materials Science Edition</i> , 2025, 40(1), 232-239
4.	Calota R., Pop O., Bodea F., Damian C., Tefas L., A Novel Concept of Nano-Enhanced Phase Change Material, <i>Materilas</i> , 2024, 17(17), 4268
5.	De Oliveira C.P.M., Sperle P., Arcanjo G.S., Drewes J.E., Amaral M.C.S, Successful application of photocatalytic recycled TiO <sub>2</sub> -GO membranes for the removal of trace organic compounds from tertiary effluent, <i>Chemosphere</i> , 2024, 362, 142730
6.	Venkatesh S.S., Vellaichmy P., Thrumalachari S., Ramalingam V., Doraiswamy Raju M., Experimental investigation and comparison of PBI/MWCNT and PSF/MWCNT membranes for recovering water from RO reject of brackish water by FO, <i>Heliyon</i> , 2024, 10(7), e28455
7.	Shekhar Samanta N., Mondal p., Dhara S., Bora U., Purkait M.K., Fabrication of LD-slag derived zeolite Y coated polysulfone (PSf) membrane for decontamination of groundwater, <i>Chemical Engineering Journal</i> , 2023, 478, 147330
8.	Oprea ., Voicu S.I., Cellulose acetate-based membranes for the removal of heavy metals from water in the context of circular economy, <i>Industrial Crops and Products</i> , 2023, 206, 117716
9.	Voicu S.I., Thakur V.K., Green polymers-based membranes for water reuse in a circular economy context, <i>Current Opinion in Green and Sustainable Chemistry</i> , 2023, 43, 100852
10.	Ghitman J., Voicu S.I., Controlled drug delivery mediated by cyclodextrin-based supramolecular self-assembled carriers: From design to clinical performances, <i>Carbohydrate Polymer Technologies and Applications</i> , 2023, 5, 100266
11.	Oprea M., Voicu S.I., Cellulose Acetate-Based Materials for Water Treatment in the Context of Circular Economy, <i>Water Switzerland</i> , 2023, 15(10), 1860
12.	Radu E.R., Voicu S.I., Thakur V.K., Polymeric Membranes for Biomedical Applications, <i>Polymers</i> , 15(3), 619

13.	Sasikumar B., Arthanareeswaran G., Construction of selective gas permeation channels in polymeric membranes using nanocage tuned ionic liquid/MIL-53 (Al) filler nanoparticles for effective CO <sub>2</sub> separation, <i>Journal of Natural Gas Science and Engineering</i> , 2022, 106, 104728
14.	Olaret E., Voicu S.I., Oprea R., Stancu I.C., Serafim A., Nanostructured Polyacrylamide Hydrogels with Improved Mechanical Properties and Antimicrobial Behavior, <i>Polymers</i> , 2022, 14(12), 2320
15.	Homocianu M., Pascariu P., High-performance photocatalytic membranes for water purification in relation to environmental and operational parameters, <i>Journal of Environmental Management</i> , 2022, 311, 114817
16.	Chiulan I., Voicu S.I., Batalu D., The Use of Graphene and Its Derivatives for the Development of Polymer Matrix Composites by Stereolithographic 3D Printing, <i>Applied Sciences Switzerland</i> , 2022, 12(7), 3521
17.	Radu E.R., Voicu S.I., Functionalized Hemodialysis Polysulfone Membranes with Improved Hemocompatibility, <i>Polymers</i> , 2022, 14(6), 1130
18.	Oprea M., Fikai A., Ilie C., Serbanescu O.S., Voicu S.I., ZINC-LOADED CELLULOSE ACETATE MEMBRANES WITH POTENTIAL BIOMEDICAL APPLICATIONS, <i>UPB Scientific Bulletin Series B Chemistry and Materials Science</i> , 2022, 84(2), 15-30
19.	Rana A.K., Gupta V.K., Saini A.K., Abdellattifaand M.H., Thakur V.K., Water desalination using nanocelluloses/cellulose derivatives based membranes for sustainable future, <i>Desalination</i> , 2021, 520, 115359
20.	Diainabo K.J., Mthombeni N.H., Motsa M., Preparation and Characterization of Hybrids of Cellulose Acetate Membranes Blended with Polysulfone and Embedded with Silica for Copper(II), Iron(II) and Zinc(II) Removal from Contaminated Solutions, <i>Journal of Polymers and the Environment</i> , 2021, 29(11), 3587-3604
21.	Serbanescu O.S., Pandeale A.M., Oprea M., Thakur v.K., Voicu S.I., Crown ether-immobilized cellulose acetate membranes for the retention of GD (III), <i>Polymers</i> , 2021, 13(22), 3978
22.	Palla-Papavlu A., Voicu S.I., Dinescu M., Sensitive materials and coating technologies for surface acoustic wave sensors, <i>Chemosensors</i> , 2021, 9(5), 105
23.	Gonzales Z., Yus J., Bravo Y., Sanchez-Herencia A.J., Ferrari B., Exploitation of lignocellulose fiber-based biotemplates to improve the performance of an immobilized tio <sub>2</sub> photocatalyst, <i>Cataysts</i> , 2021, 11(2), 1-14
24.	Zhang S., Wang Q., Dai F., Chen C., Yu Y., Novel tio <sub>2</sub> nanoparticles/polysulfone composite hollow microspheres for photocatalytic degradation, <i>Polymers</i> , 2021, 13(3), 1-17
25.	Kallawar G.A., Bhanvase B.A., Nanomaterial-based photocatalytic membrane for organic pollutants removal, <i>Handbook of Wastewater Treatment Fundamentals and Scale Up Issue</i> , 2021, 699-737
26.	Oprea, M., Voicu, S.I., Cellulose composites with graphene for tissue engineering applications, 2020, <i>Materials</i> , 13 (23), art. no. 5347, pp. 1-24
27.	Mironyuk, I.F., Soltys, L.M., Tatarchuk, T.R., Savka, Kh.O., Methods of titanium dioxide synthesis (review) [Методисинтезутиган (IV) оксиду (огляд)], 2020, <i>Physics and Chemistry of Solid State</i> , 21 (3), pp. 462-477
28.	Romay, M., Diban, N., Rivero, M.J., Urriaga, A., Ortiz, I., Critical issues and guidelines to improve the performance of photocatalytic polymeric membranes, 2020, <i>Catalysts</i> , 10 (5), art. no. 570
29.	Gonzalez, Z., Yus, J., Bravo, Y., Sanchez-Herencia, A.J., Ferrari, B., Exploitation of lignocellulose fiber-based biotemplates to improve the performance of an immobilized tio <sub>2</sub> photocatalyst, (2021) <i>Catalysts</i> , 11 (2), art. no. 156, pp. 1-14
30.	Zhang, S., Wang, Q., Dai, F., Gu, Y., Qian, G., Chen, C., Yu, Y., Novel tio <sub>2</sub> nanoparticles/polysulfone composite hollow microspheres for photocatalytic degradation, (2021) <i>Polymers</i> , 13 (3), art. no. 336, pp. 1-17
31.	Diainabo, K.J., Mthombeni, N.H., Motsa, M., Preparation and Characterization of Hybrids of Cellulose Acetate Membranes Blended with Polysulfone and Embedded with Silica for Copper(II), Iron(II) and Zinc(II) Removal from Contaminated Solutions, (2021) <i>Journal of Polymers and the Environment</i>
<b>GM. Vlasceanu, LE Crica, A.M. Pandeale, M. Ionita, Graphene oxide reinforcing genipin crosslinked chitosan-gelatin blend films, <i>Coatings</i>, 10 (2020), 189, 10.3390/coatings10020189</b>	
1.	Torgal S., Subramani G., Manian R., Comprehensive insights into chitosan hydrogels: from crosslinking and characterization to immunomodulation, microbiome interactions and biomedical uses, <i>Biomass Conversion and Biorefinery</i> , 2025, 15(9), 1319-13226
2.	Ding W., Guo S., Wang K., Asrer B.S., Ding Z., Aminated graphene oxide reinforced gelatin-chitosan composite films toward biopackaging: Preparation and properties, <i>International Journal of Biological Macromolecules</i> , 2025, 284, 138104
3.	Vlasceanu G.M., Zamfir C.I., Balta C., Popescu R.C, Ionita M., Hermenean A., Functionalized Reduced Graphene Oxide-Based Nanocomposite Hydrogels for Enhanced Osteogenesis in Bone Tissue Engineering, <i>Advanced Healthcare Materials</i> , 2025
4.	Croitoru A.M., Fikai D., Fikai A., Novel Photothermal Graphene-Based Hydrogels in Biomedical Applications, <i>Polymers</i> , 2024, 16(8), 1098
5.	Jia S., Han Y., ficai D., Fikai A., Chitosan/graphene oxide/gelatin (CS/GA/GO) hybrid fiber with enhanced tensile strength and photothermal conversation efficiency, <i>Carbon Letters</i> , 2024, 34(2), 703-713
6.	Constantinescu S., Niculescu A.G., Hudita A., Bolocan A., Radulescu R., Silver/Graphene Oxide Nanostructured Coatings for Modulating the Microbial Susceptibility of Fixation Devices Used in Knee Surgery, <i>International Journal of Molecular Sciences</i> , 2024, 25(1), 246

7.	Li Y., qui Y., Hou H., Hao H., Bi J., The Preparation and Properties of Amino-Carboxymethyl Chitosan-Based Antibacterial Hydrogel Loaded with $\epsilon$ -Polylysine, <i>Foods</i> , 2023, 12(20), 3807
8.	Cernencu A.I., Vlasceanu G.M., Serafim A., Pircalabioru G., Ionita M., 3D double-reinforced graphene oxide - nanocellulose biomaterial inks for tissue engineered constructs, <i>RSC Advances</i> , 2023, 13(34), 24053-24063
9.	Zeng J., Gao Y., Zhu S., He H., Yu M, Effect of genipin crosslinking on the property of chitosan-soy protein isolate film, <i>Journal of Applied Polymer Science</i> , 2023, 140(28), e54055
10.	Xu H., Chen L., McClements D.J., Long J., Jin Z., Development and characterization of active starch-based films incorporating graphene/polydopamine/Cu <sup>2+</sup> nanocomposite fillers, <i>Carbohydrate Polymers</i> , 2023, 305, 120498
11.	Toader A.G., Vlasceanu G.M., Serafim A., Banciu A., Ionita M., Double-Reinforced Fish Gelatin Composite Scaffolds for Osteochondral Substitutes, <i>Materials</i> , 2023, 16(5), 1815
12.	Mocanu A.C., Miculescu F., Constantinescu A.E., Miculescu M., Negrescu A.M., Selection Route of Precursor Materials in 3D Printing Composite Filament Development for Biomedical Applications, <i>Materials</i> , 2023, 16(6), 2359
13.	Nazar V., Kashi M., haghbin Nazarpak M., Shahryari E., Mehrjoo M., Gelatin hydrogel reinforced by graphene oxide grafted chitosan for cartilage tissue engineering application, <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2023, 72(14), 1120-1131
14.	De Matos Morawski F., Dias GBM, Sousa K.A.P., Bafica A., Jost CL., Chitosan/genipin modified electrode for voltammetric determination of interleukin-6 as a biomarker of sepsis, <i>International Journal of Biological Macromolecules</i> , 2023, 224, 1450-1459
15.	Thirupathi K., Raorane C.J., Ramkumar V., Phan T.T.V., Kim S.C., Update on Chitosan-Based Hydrogels: Preparation, Characterization, and Its Antimicrobial and Antibiofilm Applications, <i>Gels</i> , 2023, 9(1), 35
16.	Wu S., Xu C., Zhao Y., Ding F., Qu P., Recent Advances in Chitosan-Based Hydrogels for Flexible Wearable Sensors, <i>Chemosensors</i> , 2023, 11(1), 39
17.	Vlasceanu G.M., Ionita M., Ghitman J., Iovu H., Chitosan-Based Materials Featuring Multiscale Anisotropy for Wider Tissue Engineering Applications, <i>International Journal of Molecular Sciences</i> , 2022, 23(10), 5336
18.	Bozorgi A., Mozafari M., Khazaei M., Soleimani M., Jamalpoor Z., Fabrication, characterization, and optimization of a novel copper-incorporated chitosan/gelatin-based scaffold for bone tissue engineering applications, <i>Biomaterials</i> , 2022, 12(3), 233-246
19.	Inthamat P., Lee Y.S., Boonsiriqit A., Siripatrawan U., Improving moisture barrier and functional properties of active film from genipin-crosslinked chitosan/astaxanthin film by heat curing, <i>International Journal of Food Science and Technology</i> , 2022, 57(1), 137-144
20.	Jiang X, Xue J., Zhang Y., Xiong Z., Zhao L., Facile synthesis of DTC-Chm-GO nanocomposite with remarkable adsorption capacity and antibacterial activity, <i>Materials Science and Engineering B</i> , 2022, 275, 115517
21.	Abdalla T.H., Nasr A.S., Bassioni G., Harding D.R., Kandile N.G., Fabrication of sustainable hydrogels-based chitosan Schiff base and their potential applications, <i>Arabian Journal of Chemistry</i> , 2022, 15(1), 103511
22.	Selaru A., Herman H., Vlasceanu G.M, Hermernean A., Costache, Graphene-oxide porous biopolymer hybrids enhance in vitro osteogenic differentiation and promote ectopic osteogenesis in vivo, <i>International Journal of Molecular Sciences</i> , 2022, 23(1), 491
23.	Moshayedi S., Sarpoolaky H., Khavadi A., Fabrication, swelling behavior, and water absorption kinetics of genipin-crosslinked gelatin-chitosan hydrogels, <i>Polymer Engineering and Science</i> , 2021, 61(12), 3094-3103
24.	Olaret E., Stancu IC, Iovu H., Serafim A., Computed tomography as a characterization tool for engineered scaffolds with biomedical applications, <i>Materials</i> , 2021, 14(22), 6763
25.	Nguyen HT, HO TL, Pratomo A., Chen CH, Chuang EY, Enzymatically triggered graphene oxide released from multifunctional carriers boosts anti-pathogenic properties for promising wound-healing applications, <i>Materials Science and Engineering C</i> , 2021, 1428, 112265
26.	Da Silva Alves DC., Healy B., Yu T. Breslin CB, Graphene-based materials immobilized within chitosan: Applications as adsorbents for the removal of aquatic pollutants, <i>Materials</i> , 2021, 14(13), 3655
27.	Ehrmann A, Non-toxic crosslinking of electrospun gelatin nanofibers for tissue engineering and biomedicine—a review, <i>Polymers</i> , 2021, 13(12), 1973
28.	Sivashankari PR., Krishna Kumar K., Devendiran M., Prabakaran M., Graphene oxide-reinforced pectin/chitosan polyelectrolyte complex scaffolds, <i>Journal of Biomaterials Science Polymer Edition</i> , 2021, 32(17), 2246-2266
29.	Abdalla TH., Nasr A.S., Nasr A.S., Bassiuni G, Harding DR, Kandile NG, New modified chitosan composites and nanocomposites for different applications, <i>Journal of Scientific Research in Science</i> , 2021, 38, 187-209

30.	Maiz-Fernández, S., Guaresti, O., Pérez-Álvarez, L., Ruiz-Rubio, L., Gabilondo, N., Vilas-Vilela, J.L., Lanceros-Mendez, S., $\beta$ -Glycerol phosphate/genipin chitosan hydrogels: A comparative study of their properties and diclofenac delivery, 2020, Carbohydrate Polymers, 248, art. no. 116811
31.	Vlasceanu, G.M., Şelaru, A., Dinescu, S., Balta, C., Herman, H., Gharbia, S., Hermenean, A., Ionita, M., Costache, M., Comprehensive appraisal of graphene-oxide ratio in porous biopolymer hybrids targeting bone-tissue regeneration, 2020, Nanomaterials, 10 (8), art. no. 1444, pp. 1-19
32.	Politano, G.G., Vena, C., Desiderio, G., Versace, C., Variable angle spectroscopic ellipsometry characterization of Reduced Graphene Oxide stabilized with poly(sodium 4-styrenesulfonate), 2020, Coatings, 10 (8), art. no. 743
33.	Wang, N., Yin, X., Zhang, J., Gao, H., Diao, X., Yao, H., Preparation and anti-corrosive properties of waterborne epoxy composite coating containing graphene oxide grafted with sodium tripolyphosphate, 2020, Coatings, 10 (4), art. no. 307
<b>MI Necolau, AM. Pandele, Recent advances in graphene oxide-based anticorrosive coatings: An overview, Coatings, 10 (2020), 1149, 10.3390/coatings10121149</b>	
1.	Lei F., Feng M., Liu P., Sun D., Sun H., Artificially cultivated diatom frustule as oil reservoir toward anti-corrosion and anti-wear lubricant-infused surface, Progress in Organic Coating, 2025, 207, 109401
2.	Amini A. Pirhady Tavadashti N., Effect of polyelectrolyte type and incorporation of graphene oxide on self-healing multilayered nanostructured coatings on AA2024, Surfaces and Interfaces, 2025, 72, 107120
3.	Rzajj D.R., Mahmoudi E., Yong N.L., Wee M.F.M.R., Munir N.M.R., Synthesis and characterizations of hybrid nanocomposite coatings for enhanced anticorrosion performance, Journal of Coatings Technology and Research, 2025, 22(5), 1629-1648
4.	Schut A., Smart and functional coatings: Nanotechnology in coatings, Smart and Functional Coatings Nanotechnology in Coatings, 2025, 1-140
5.	Campos Garcia J.E., Carbajal De la Torre G., Hernandez Dominguez A.A., Zurita Mendez N.N., Espinosa Medina M.A., Development of PMMA-GO hybrid coatings applied as anti-corrosion coatings, MRS Advances, 2025, 10(6), 747-752
6.	Feng M., Chen M., Liu P., Lei F., Progress in Research of Two-Dimensional Nanomaterials in Epoxy Resin for Anticorrosion Coating, Gaofenzi Cailiao Kexue Yu Gongcheng Polymeric Materials Science and Engineering, 2025, 41(3), 172-180
7.	Devikrishna K.S., Suresh K.I., Amphiphilic polymer modification of graphene oxide (AGO) to enhance the barrier and corrosion protection properties of waterborne polyurethane coatings, Journal of Materials Science, 2025, 60(5), 2673-2688
8.	Li Y., Ma Y., Wu Y., Liu C., Zhang F., Surface inhomogeneity study of carbon steel with GO-doped epoxy coatings using integrated SEM-SVET-LEIS methodology, Anti Corrosion Methods and Materials, 2025
9.	Kausar A., Graphene Quantum Dots and their Derived Nanocomposites: Fundamentals and Applications, Graphene Quantum Dots and their Derived Nanocomposites Fundamentals and Applications, 2025, 1-234
10.	Zeinedini A., Shokrieh M.M., Agglomeration phenomenon in graphene/polymer nanocomposites: Reasons, roles, and remedies, Applied Physics Reviews, 2024, 11(4), 041301
11.	Wang B., Luo R., Yang Z., Wang Z., Gan W., Synthesis and characterization of modified iron oxide hydrophobic corrosion-resistant pigment for aluminum alloy coating, Surface Topography Metrology and Properties, 2024, 12(2), 025005
12.	Hassan I., Baba N.M., Benin M.E., Labulo A.H., Review on green synthesis of silica nanoparticle functionalized graphene oxide acrylic resin for anti-corrosion applications, Journal of Umm Al Qura University for Applied Sciences, 2024, 10(2), 379-397
13.	Xing Z., Song B., Liu R., Sang X., Luo J., Investigation of the size effect of mica sheets on the anticorrosion behavior of UV-cured coatings, Journal of Applied Polymer Science, 2024, 141(12), e55133
14.	Alcaraz L., Diaz-Guerra C., Diaz-Guerra C., Fernandez-Martinez R., Lorente I., Lopez F.A., Second life of recycled graphite for sustainable production of multilayer graphene related materials with multiple potential applications, Materials Characterization, 2024, 209, 113695
15.	Dua S., Arora N., Prakashaiah B.G., Ganguly S.K., Senthikumar T., Conjugated polymer-based composites for anti-corrosion applications, Progress in Organic Coatings, 2024, 188, 108231
16.	Filizzola A.B., Pereira J.L.N., dos Santos P.R., de Vasconcelos C.K.B., Silva G.G., Enhanced wear resistance of epoxy coatings on steel using graphene oxide, Journal of Coatings Technology and Research, 2024, 21(1), 215-228
17.	Kumar S.S.A., Nujud Badawi M., Batoor K.M., Ramesh S., Shah M.A., Fabrication and characterization of graphene oxide-based polymer nanocomposite coatings, improved stability and hydrophobicity, Scientific Reports, 2023, 13(1), 8946

18.	Al-Noaman A.S., Rawlinson S.F., Titanium Dioxide/Graphene Oxide Composite Coatings for 316 Stainless Steel Dental Implants, <i>European Journal of Prosthodontics and Restorative Dentistry</i> , 2023, 31(4), 358-372
19.	Liu S., Liu H., Shao N., Dong Z., Modification of Electrochemical Exfoliation of Graphene Oxide with Dopamine and Tannic to Enhance Anticorrosion Performance of Epoxy Coatings, <i>Coatings</i> , 2023, 13(10), 1809
20.	Chang Z., Du S., Sun J., Enhancing graphene's resistance to oxidative corrosion by positive charge doping: A DFT view, <i>Applied Surface Science</i> , 2023, 633, 157622
21.	He X., Bai X., Yuan C., Ren K., Research Progress of Nanomaterial-based Coatings for Marine Antifouling Applications, <i>Zhongguo Biaomian Gongcheng China Surface Engineering</i> , 2023, 36(5), 37-51
22.	Li T., Zhan H., Lan H., Lin Y., Jin R., Graphene oxide modification and its application in anticorrosive epoxy coatings, <i>Journal of Chemical Engineering of Chinese Universities</i> , 2023, 37(4), 525-536
23.	Oguz B., Hayri-Senel T., Kahraman E., Nasun-Saygili G., Improving corrosion resistance and electrical conductivity of sunflower oil based polyurethane coatings by graphene oxide/reduced graphene oxide, <i>Polymer Testing</i> , 2023, 108057
24.	Sheydaei M., Edraki M., Radeghi Mehrjou S.M., Anticorrosion and Antimicrobial Evaluation of Sol-Gel Hybrid Coatings Containing <i>Clitoria ternatea</i> Modified Clay, <i>Gels</i> , 2023, 9(6), 490
25.	Verma C., Quraishi M.A., Carbohydrate polymers-modified carbon allotropes for enhanced anticorrosive activity: State-of-arts and perspe, <i>Chemical Engineering Journal Advances</i> , 2023, 13, 100428
26.	Ding C., Lin Z., Li Y., Mao Z., Feng J., Research and application of fast-curing anticorrosion inner coatings for vessels in an acid environment, <i>Journal of Physics Conference Series</i> , 2023, 2539(1), 012015
27.	Chopda L.V., Dave P.N., Biobased anticorrosive materials for the mitigation of corrosion, <i>Smart Anticorrosive Materials Trends and Opportunities</i> , 2023, 421-434
28.	Hung H.M., Thi T.M., Van Khoe L., Huong V.T., Trung V.Q., Polypyrrole-based nanocomposites doped with both salicylate/molybdate and graphene oxide for enhanced corrosion resistance on low-carbon steel, <i>Designed Monomers and Polymers</i> , 2023, 26(1), 171-181
29.	B.C.B. Bose, B.A. Kalarikkal N., Nanomaterials and nanocomposites for surface protection, <i>Polymer Based Nanoscale Materials for Surface Coating</i> , 2023, 19-40
30.	Onlaor K., Putta B., Thiwawong T., Tunhoo B., Preparation of Nanofibers of Poly (methyl methacrylate) Composed with Few-Layer-Graphene for Anticorrosion Layer, <i>Current Applied Science and Technology</i> , 2022, 22(5), 1-11
31.	Azlina Y., Azlan M.N., Suriani a.B., Tafida R.A, Fauzi F., Emission properties of reduced graphene oxide-coated Er <sup>3+</sup> -tellurite glass for fiber optics, <i>Journal of Materials Science Materials in Electronics</i> , 2022, 33(36), 26915-26930
32.	Madhusudhana A.M., Mohana K.N.S., Hegde M.B., Rajitha K., Sunil Kumar m.C., Functionalized graphene oxide dispersed polyvinyl alcohol-epoxidized linseed oil composite: An eco-friendly and promising anticorrosion coating material, <i>Colloids and Surfaces A Physicochemical and Engineering Aspects</i> , 2022, 650, 129382
33.	Da S. Medeiros F., Cury C.S.R., de Vasconcelos C.K.B., Silva G.G., Reduced graphene oxide as an adhesion enhancer of fusion-bonded epoxy coatings, <i>Progress in Organic Coatings</i> , 2022, 171, 107057
34.	Zhang M., Zhao X., Jia H., Wang X., Liu C., Anticorrosion properties of modified basalt powder/epoxy resin coating, <i>Journal of Coatings Technology and Research</i> , 2022, 19(5), 1409-1420
35.	Jayasooriya D., Rajeev P., Sanjayan J., Application of Graphene-Based Nanomaterials as a Reinforcement to Concrete Pavements, <i>Sustainability Switzerland</i> , 2022, 14(18), 11282
36.	Balakrishnan D., Lee C.I., Surface Functionalization of Bamboo with Silver-Reduced Graphene Oxide Nanosheets to Improve Hydrophobicity and Mold Resistance, <i>Coatings</i> , 2022, 12(7), 980
37.	Aiman Syafiq Mohd Hamidi N., Cleaner Materials, Potential Application of Plant-Based Derivatives as Green Components in Functional Coatings: A Review, <i>Cleaner Materials</i> , 2022, 4
38.	Liang X., Li X., Thang Y., Wei W., Liu X., Hyperbranched epoxy resin-grafted graphene oxide for efficient and all-purpose epoxy resin modification, <i>Journal of Colloid and Interface Science</i> , 2022, 611, 105-117
39.	Norapandi N.F., Salim N., Ching K.F., Abu Bakar N.H., Structural evaluation of graphene oxide/Zinc oxide nanocomposite for corrosion mitigation, <i>Materials Today Proceedings</i> , 2022, 75, 58-62
40.	Nishad G.R., Sharma A.K., Verma D.K., Carbon allotropes: Mechanism of corrosion prevention and control, <i>Carbon Allotropes Nanostructured Anti Corrosive Materials</i> , 2022, 117-132
41.	Murariu A.C., Macarie L., Crisan L., Plesu N., Experimental investigations of almg3 components with polyurethane and graphene oxide nanosheets composite coatings, after accelerated uv-aging, <i>Molecules</i> , 2022, 27(1), 84

42.	Yuoff F., Suresh K., Rosli A.R.M., Ramachandran M.R., Zain N.N.M., MAGNETITE-GRAPHENE BASED NANOCOMPOSITES IN ELECTROCHEMISTRY: A BRIEF REVIEW ON THEIR APPLICATIONS, 2022, Malaysian Journal of Analytical Sciences, 2022, 26(4), 788-807
43.	Hosseinabadi N., Carbon allotropes-based materials as ideal substitutes for industrially useful selfhealing coatings: Recent advancements and future proponents, Carbon Allotropes Nanostructured Anti Corrosive Materials, 2022, 355-382
44.	Sadabadi H., Ghaderi O., Kordijazi A., Rohatgi P.K., Graphene derivatives reinforced metal matrix nanocomposite coatings: A review, Journal of Metals Materials and Minerals, 2022, 32(3), 1-14
45.	George J.S., Vijayan P.P., Paduvilan J.K., Hameed N., Thomas S., Advances and future outlook in epoxy/graphene composites for anticorrosive applications, Progress in Organic Coatings, 2022, 162, 106571
46.	Elhalawany N., Serour J., Abdel-karim A.M., Saleeb M.M., Morsy F., Novel Water-Born Anticorrosive Paints Based on Modified Nanocarbon (NC), Journa of Bio and Tribo Corrosion, 2021, 7(4), 144
47.	Aljohani T.A., Albeladi M.I., Alshammari B.A., Improving pitting corrosion resistance of the commercial titanium through graphene oxide-titanium oxide composite, Heliyon, 2021, 7(6), e07289
48	Nnaji N., Nwaji N., Mack J., Nyokong T., Ball-type phthalocyanines and reduced graphene oxide nanoparticles as separate and combined corrosion inhibitors of aluminium in HCl, Journal of Molecular Structure, 1236, 2011, art no. 130279
49.	Bashir M.A., Use of Dynamic Mechanical Analysis (DMA) for Characterizing Interfacial Interactions in Filled Polymers, Solids, 2021, 2(1), 108-120
50.	Kausar A., Graphene to Polymer/Graphene Nanocomposites: Emerging Research and Opportunities, Graphene to Polymer Graphene Nanocomposites Emerging Research and Opportunities, 2021, 1-276
<b>A.M. Pandele, A. Constantinescu, I.C. Radu, F. Miculescu, S.I. Voicu, L.T. Ciocan, Synthesis and characterization of PLA – Micro-Structured hydroxyapatite composite films, Materials, 2020, 13(2), 274, 10.3390/ma13020274</b>	
1.	Farkas N.I., Barabas R., Turdean G.L. Bizo L., Investigation of optimized poly(lactic acid)/hydroxyapatite/doxycycline coatings on titanium alloy surfaces, Materials Science and Engineering B., 2025, 322, 118625
2.	Mancuso A., Monzillo K., Moshfeghi N., Vaiano V., Sacco O., Fe,N co-doped TiO2 photocatalyst supported in PLA nanofibers for sunlight-driven degradation of water organic pollutants and Escherichia coli Inactivation, Applied Surface Science Advances, 2025, 29, 100849
3.	Panickar R., Alexander B., Freeman T.E., Rangari V., Mechanical, Thermal, and Barrier Property Studies of Polylactic Acid Composite Blown Films with Nanohydroxyapatite as a Filler Derived from Pink Perch Fish Scales, ACS Omega, 2025, 10(33), 37053-37065
4.	Tazibt N., Kaci M., Ragoubi M., Dehauche N., Morphological, thermal, mechanical and in vitro degradation of PLA/Silane-modified hydroxyapatite composites, Polymer Bulletin, 2025, 82(12), 7123-7145
5.	Fernandes de Carvalho reis, de Oliveira Machado G., Coco Teixeira S., Veloso de Oliveira T., Oliveira Carneiro A.D.C., Strengthening poly (lactic acid): The role of fractionated lignin in the development of sustainable films, International Journal of Biological Macromolecules, 2025, 320, 145912
6.	Borges P.H.S., Caldas N.M., de Faria L.V., Dornellas R.M., Nossol E., Nickel-Loaded 3D-Printed Electrode for In Situ Electrochemical Conversion to a Prussian Blue Analogue: Synthetic Parameter Optimization for Pseudocapacitor Applications, ACS Materials Au, 2025, 5(4), 675-686
7.	Sostero L., Ferrari M., Pagono D., Morano A., Girard S., Radiation-induced effects on commercial 3D printing materials exposed to high x-ray doses, Jphys Materials, 2025, 8(3), 035003
8.	Rojas R., Zanin J.P., Martinez R., Gil G.A., Self-standing films of medical grade PLA/PEG copolymers for guided bone regeneration, Next Materials, 2025, 8, 100561
9.	Muzaffarova B., eranov S., Tillayev S., Resorbable Bone-Fixation Materials: Synthesis, Physical-Chemical and Biological Properties, Avicenna Journal of Medical Biotechnology, 2025, 17(3), 196-207
10.	Wojciechowski L., Sydow Z., Bula K., Runka T., Application of Food Waste in Biodegradable Composites: An Ecological Alternative in Tribology, Materials, 2025, 18(14), 3216
11.	Xiong Y., Li L., Tan P., Preparation and Properties of the Hydroxyapatite/polylactic Acid (HA/PLA) Nanocomposites, Journal Wuhan Univeristy of Technology Materials Science Edition, 2025, 40(3), 668-673
12.	Phunaty J.D., Lalley J.M., Kennedy A.J., Griggs C.S., Magbanua B.S., Adsorption of MC-LR enabled by customizable 3D printed graphene-coated structures, Journal of Environmental Chemical Engineering, 2025, 13(3), 117046

13.	Qiao D., Li M., Chen J., Zhang B., Xie F., Combination of crosslinked zein film enhances the water barrier and mechanical properties of deacetylated konjac glucomannan/agar-based bilayer films, <i>Food Chemistry</i> , 2025, 475, 143350
14.	Wei F., Chen D., Wei C., Yan C., Zhu Y., Nano SiC ceramics and MOFs synergistically enhanced polylactic acid composites for efficient flame retardant performance, <i>Journal of Materials Chemistry A</i> , 2025, 13(25), 19644-19660
15.	Venu Gopala Kumari S., Rawat S., Vasanth D., Pakshirajan K., Pugazhenth G., Development and characterization of novel environmentally sustainable poly (lactic acid)/ball clay composite films, <i>Polymer Engineering and Science</i> , 2025, 65(5), 2455-2467
16.	Bilgili H.K., Todoh M., Pioneering Soundscapes: Investigating Commercial Fused Deposition Modelling Filament's Potential for Ultrasound Technology in Bone Tissue Scaffolds, <i>Bioengineering</i> , 2025, 12(5), 529
17.	Sponchiado P.A.I., Melo M.T., Cominal J.G., Ramos A.P., Maniglia B.C., Biomembranes Based on Potato Starch Modified by Dry Heating Treatment: One Sustainable Strategy to Amplify the Use of Starch as a Biomaterial, <i>Biomacromolecules</i> , 2025, 26(3), 1530-1540
18.	Vengadesan E., Arunkumar T., Muralidharan S., Dutta H., Kadirgama, K., Hybrid Bio-composites Reinforced with Natural Wood Saw Dust and Eco-friendly Graphite: Evaluation of Physical, Mechanical, and Thermal Properties, <i>Fibers and Polymers</i> , 2025, 26(2), 833-854
19.	Sutil G.A., Andrade K.S., Rebelatto E.A., Lanza M., Effect of supercritical CO <sub>2</sub> impregnation of piperine and black pepper extract on properties of poly(l-lactic acid) films, <i>Journal of Supercritical Fluids</i> , 2025, 216, 106441
20.	Seo H.J., kim Y.K., Hong S.H., Lim S.K., Energy harvesting and storage using highly durable Biomass-Based artificial muscle fibers via shape memory effect, <i>Chemical Engineering Journal</i> , 2025, 504, 158850
21.	Narayanan P.L., Study on distribution of hydroxyapatite (HA) in twin screw extruded cum injection moulded polylactic acid (PLA) composites and their effect on mechanical property, <i>Advanced Composite Materials</i> , 2025, 34(4), 681-706
22.	Ur A., Plachi D., Varga V., Tatraaljai D., Pukhanszky B., Enzymatic etching of PLA/hydroxyapatite scaffolds for improved cell adhesion: surface modification and homogeneity, <i>Emergent Materials</i> , 2025
23.	Arora N., Dua S., Choudhary V., Singh S.K., Senthilkumar T., Mechanical properties of novel PLA composite infused with betel nut waste biocarbon for sustainable 3D printing, <i>Composites Communications</i> , 2025, 53, 102188
24.	Mustaza N.M., Salleh F.M., Ramli M.I., Abdullah A.M., Iasmal M.H., Influence of differential PA12 content on the rheological behavior of PLA/Wollastonite composite for 3D printing applications, <i>Progress in Additive Manufacturing</i> , 2025
25.	Saberi A., Aghabarari B., Behnamghader A., yousefi A., Huerta M.V.M., Dual-functional drug delivery from 3D printed polylactic acid/glass ceramic scaffolds: combining antibacterial and osteogenic properties for craniofacial applications, <i>Journal of Materials Science</i> , 2025
26.	Ogbu J.E., Idumah C.I., Poly (lactic) acid (PLA) hybrid bionanoarchitectures for tissue engineering, <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2025, 74(6), 497-522
27.	Sen I., Preparation and characterization of the Leonardite and Boric acid added Polylactic acid films for food packaging applications, <i>Industrial Crops and Products</i> , 2024, 222, 119488
28.	Lim D.S., Kim E.B., Lee H.Y., Lee J.C., Myung S., Highly miscible bio-based poly(lactic acid)/acetylated cellulose ether ultrafiltration membranes with improved water permeances, <i>Journal of Membrane Science</i> , 2024, 711, 123195
29.	Rojas V., Jugdaohsing R., Rayment ., Powell J., Freeman P., Applying the Techniques of Materials Science towards an Understanding of the Process of Canine Intervertebral Disc Degeneration, <i>Animals</i> , 2024, 14(18), 2665
30.	Mendes L.C., Mariano D.M., Freitas D.F.S., Tavares M.I.B., Garcia E.E., Ecofriendly composites based on poly (lactic acid) with nano-zirconium phosphate and nano-zinc oxide/zirconium phosphate: physicochemical and aging characteristics, <i>Journal of Thermal Analysis and Calorimetry</i> , 2024, 149(17), 9297-9306
31.	Tabish T.A., Hussain M.Z., Zhu Y., Winyard P.G., Lygate C.A., Synthesis and characterization of amine-functionalized graphene as a nitric oxide-generating coating for vascular stents, <i>Applied Physics Reviews</i> , 2024, 11(3), 031422
32.	Topuz M., Dikici B., Kasapoglu A.E., Zhao X., Niinomi M., Systematic characterization and enhanced corrosion resistance of novel $\beta$ -type Ti-30Zr-5Mo biomedical alloys with halloysite nanotubes (HNTs) and zirconia (ZrO <sub>2</sub> )-reinforced polylactic acid (PLA) matrix coatings, <i>Materials Today Communications</i> , 2024, 40, 110110
33.	Subramaniyan M., Karuppan S., Helaili S., Ahmad I., Structural, mechanical, and in-vitro characterization of hydroxyapatite loaded PLA composites, <i>Journal of Molecular Structure</i> , 2024, 1306, 137862

34.	Ziblim Z., Thapsukhon B., Choommongkol V., Khantamat O., Ruangsuriya J., Collagen-cellulose-poly(l-lactide) scaffold by electrospinning and plasma-assisting fabrication for bone tissue engineering applications, <i>Plasma Processes and Polymers</i> , 2024, 21(6), 2300209
35.	Siqueira A.S. Braga N.F., Munoz PAR, Ferreira A.H., Fechine G.J.M., Biodegradable scaffold: integration of polylactic acid, hydroxyapatite, and graphene oxide via FDM 3D printing, <i>Express Polymer Letter</i> , 2024, 18(6), 656-672
36.	Natarajan E. Sekar T., Markandan K., Selvaraj A.D.A., Sekar S.M., Structural integrity and mechanical behaviour of magnesium oxide (MgO) as reinforcement in PLA-HDPE composite, <i>Emergent Materials</i> , 2024, 7(3), 1283-1294
37.	Hazarika G., Jadhav S.V., Ingole P.G., Exploring the potential of polymeric membranes in cutting-edge chemical and biomedical applications: A review, <i>Materials Today Communications</i> , 2024, 39, 109022
38.	Rai P., Mehrotra S., Gautam K., Priya S., Sharma S.K., A polylactic acid-carbon nanofiber-based electro-conductive sensing material and paper-based colorimetric sensor for detection of nitrates, <i>Analytical Methods</i> , 2024, 16(19), 3131-3141
39.	Sen I., Structure, performance, and crystallization behavior of Turkey leonardite and raw kaolin added polylactic acid composite films, <i>Journal of Composite Materials</i> , 2024, 58(10), 1303-1316
40.	Mushtaq Alam M., Kumar S., Gopan G., Mani M., Kannan S., Fabrication, mechanical, finite element and In vitro evaluation of 3D printed polylactide/biphasic calcium phosphate composite blends, <i>Materials Chemistry and Physics</i> , 2024, 318, 129306
41.	Akoumeh R., Noun M, Ponnamma D, Song K, Hassan M.K., A versatile route for the fabrication of micro-patterned polylactic-acid (PLA)-based membranes with tailored morphology via breath figure imprinting, <i>Soft Matter</i> , 2024, 20(18), 3787-3797
42.	Vazque-Lopez A, de la Vega J, Collado I, Prolongo S.G., Wang D.Y., Graphene Oxide/Polylactic Acid-Based Face Mask to Combat H3N2: A Strategy against Influenza, <i>ACS Applied Nano Materials</i> , 2024, 7(6), 2024, 6460-6470
43.	Alam M., Manivannan E., Rizwan M., Mani M., Kannan S., 3D printed polylactide-based zirconia-toughened alumina composites: fabrication, mechanical, and in vitro evaluation, <i>International Journal of Applied Ceramic Technology</i> , 2024, 21(2), 957-971
44.	Aggarwal D., Sharma S., Gupta M., Porous Mg-Hydroxyapatite Composite Incorporated with Aloe barbadensis Miller for Scaphoid Fracture Fixation: A Natural Drug Loaded Orthopedic Implant, <i>Applied Sciences Switzerland</i> , 2024, 14(4), 1512
45.	Liu L., Xu Y.L., Liu J.X., Wang S., Zhu Q.X., Preparation and characterization of high flux cellulose acetate/hydroxyapatite composite ultrafiltration membranes for water treatment, <i>Desalination and Water Treatment</i> , 2024, 317, 100309
46.	Mustaza N.M., Salleh F.M., Rahmat S.I., Ismail M.H., Murat B.I.S., Influence of Hydroxyapatite Particle Size on the Flowability of PLA/HA Filament, <i>Journal of Mechanical Engineering</i> , 2024, 21(2), 159-179
47.	Lisboa T.P., de Faria L.V., de Oliveira W.B.V., Dornellas R.M., Matos R.C., Simultaneous monitoring of amoxicillin and paracetamol in synthetic biological fluids using a 3D printed disposable electrode with a lab-made conductive filament, <i>Analytical and Bioanalytical Chemistry</i> , 2024, 416(1), 215-226
48.	Leal F., Nirwan V., Goncalves A.M., Fahmi A., Costa P.F., Bio-inspired nanoporous scaffold: electrospun hybrid fibers based on self-assembled block copolymer mineralized with inorganic nanoparticles for bone tissue engineering, <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2024, 73(12), 1054-1067
49.	Da Luz Belo, Vasconcelos E.V., Pinheiro M.A., Rodrigues A.P.D., Candido V.S., Additive manufacturing of poly (lactic acid)/hydroxyapatite/carbon nanotubes biocomposites for fibroblast cell proliferation, <i>Scientific Reports</i> , 2023, 13(1), 20387
50.	De Faria L.V., do Nascimento S.F.L., Villafuerte L.M., Pacheco W.F., Dornellas R.M., 3D printed graphite-based electrode coupled with batch injection analysis: An affordable high-throughput strategy for atorvastatin determination, <i>Talanta</i> , 2023, 265, 124873
51.	De Franca J.O.C., Lima Q.D.S., Barbosa M.M. D.M., Dias S.C.L., Dias J.A., Sonochemical Synthesis of Magnetite /Poly(lactic acid) Nanocomposites, <i>Polymers</i> , 2023, 15(24), 4662
52.	Mushtaq Alam M., Sugail M., Kannan S., Development, Physicochemical characterization, Mechanical and Finite element analysis of 3D printed Polylactide- $\beta$ -TCP/ $\alpha$ -Al <sub>2</sub> O <sub>3</sub> composite, <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2023, 147, 106161
53.	Panda S., Hajra S., Kim H.G., Vivekananthan V., Kim H.J., Carbohydrate-protein interaction-based detection of pathogenic bacteria using a biodegradable self-powered biosensor, <i>Journal of Materials Chemistry B</i> , 2023, 11(42), 10147-10157

54.	Voicu S.I., Thakur V.K., Green polymers-based membranes for water reuse in a circular economy context, <i>Current Opinion in Green and Sustainable Chemistry</i> , 2023, 43, 100852
55.	Nguyen N.M., Kakarla A.B., Nukala S.G., Baji A., Kong I., Evaluation of Physicochemical Properties of a Hydroxyapatite Polymer Nanocomposite for Use in Fused Filament Fabrication, <i>Polymers</i> , 2023, 15(19), 3980
56.	Gomes N.O., Teixeira S.C., Calegario M.L., de Oliveira T.V., Raymundo-Pereira P.A., Flexible and sustainable printed sensor strips for on-site, fast decentralized self-testing of urinary biomarkers integrated with a portable wireless analyzer, <i>Chemical Engineering Journal</i> , 2023, 472, 144775
57.	Pattanayak I., Alex Y., Mohanty S., Advancing strategies towards the development of tissue engineering scaffolds: a review, <i>Journal of Materials Science</i> , 2023, 58(32), 12847-12898
58.	Kumar R., Sadeghi K., Jang J., Seo J., Mechanical, chemical, and bio-recycling of biodegradable plastics: A review, <i>Science of the Total Environment</i> , 2023, 882, 163446
59.	Perez-Davila S., Garrido-Gulias N., Gonzalez-Rodriguez L., Lopez-Periago J.E., Gonzalez P., Physicochemical Properties of 3D-Printed Polylactic Acid/Hydroxyapatite Scaffolds, <i>Polymer</i> , 2023, 15(13), 2849
60.	Obada D.O., Osseni S.A., Sina H., Bada A.A., Dauda E.T., Hydroxyapatite materials-synthesis routes, mechanical behavior, theoretical insights, and artificial intelligence models: a review, <i>Journal of the Australian Ceramic Society</i> , 2023, 59(3), 565-596
61.	Jang H.J., Lang M.S., Kim W.H., Kim B, Han S.W., 3D printed membranes of polylactic acid and graphene oxide for guided bone regeneration, <i>Nanoscale Advances</i> , 2023, 5(14), 3619-3628
62.	Trombino S., Sole R., Curcio F., Cassano R., 3D printed membranes of polylactic acid and graphene oxide for guided bone regeneration, <i>Membranes</i> , 2023, 13(6), 576
63.	Ghitman J., Voicu S.I., Controlled drug delivery mediated by cyclodextrin-based supramolecular self-assembled carriers: From design to clinical performances, <i>Carbohydrate Polymer Technologies and Applications</i> , <i>Carbohydrate Polymer Technologies and Applications</i> , 2023, 5, 100266
64.	Asyiah E.N., Irwansyah F.S., Norviyanti A.R., Eddy D.R., Composite of hydroxyapatite (HA) from eggshells and TiO <sub>2</sub> , <i>Aip Conference Proceedings</i> , 2023, 2646, 030016
65.	Qiao D., Lu J., Chen Z., Li M., Zhang B., Zein inclusion changes the rheological, hydrophobic and mechanical properties of agar/konjac glucomannan based system, <i>Food Hydrocolloids</i> , 2023, 137, 108365
66.	Furko M., Balazsi K., Balazsi C., Calcium Phosphate Loaded Biopolymer Composites—A Comprehensive Review on the Most Recent Progress and Promising Trends, <i>Coatings</i> , 2023, 13(2), 360
67.	Radu E.R., Voicu S.I., Thakur V.K., Polymeric Membranes for Biomedical Applications, <i>Polymers</i> , 2023, 15(3), 619
68.	Alam M.M., Ezhilan M., Saha S., Mani M., Kannan S., Design, fabrication, mechanical, and in vitro evaluation of 3D printed ZrO <sub>2</sub> reinforced polylactide scaffolds through fused deposition modeling, <i>Materials Chemistry Frontiers</i> , 2023, 7(3), 464-475
69.	Al-Daas A., Azmi A.S., Ali F.B., Anuar H., The Effect of Alkaline Treatment to Pseudo-Stem Banana Fibers on the Performance of Polylactic Acid/ Banana Fiber Composite, <i>Journal of Natural Fibers</i> , 2023, 20(1), 2176401
70.	Stogov M.V., Kireeva E.A. Dubinenko G.E., Tverdokhlebov S.I., The influence of polylactide/hydroxyapatite composite implant crystallinity on the polymer structure degradation, <i>Genij Ortopedii</i> , 2023, 29(6), 591-595
71.	Tazibt N., Kaci M., Dehouche N., Ragoubi M., Atanase L.I., Effect of Filler Content on the Morphology and Physical Properties of Poly(Lactic Acid)-Hydroxyapatite Composites, <i>Materials</i> , 2023, 16(2), 809
72.	Deshmukh R., Mishra S., Singh R., Biosensors-A Miraculous Detecting Tool in Combating the War against COVID-19, <i>Current Pharmaceutical Biotechnology</i> , 2023, 24(11), 1430-1448
73.	Ray S.S., Banerjee R., Sustainable Polylactide-Based Composites, <i>Sustainable Polylactide Based Composites</i> , 2023, 1-376
74.	Souza A.P.C., Neves J.G., Navarro da Rocha D., Correr-Sabrinho L., Correr A.B., Chitosan/Xanthan membrane containing hydroxyapatite/Graphene oxide nanocomposite for guided bone regeneration, <i>Journal of the Mechanical</i> , 2022, 136, 105464
75.	Mocanu A.C., Miculescu F., Dascalu C.A., Mitran V., Ciocan L.T., Influence of Ceramic Particles Size and Ratio on Surface—Volume Features of the Naturally Derived HA-Reinforced Filaments for Biomedical Applications, <i>Journal of Functional Biomaterials</i> , 2022, 13(4), 199
76.	Mahmud M., Hossain S., Mobarak M.B., Islam D., Ahmed S., Engineering GO@Zn-Hap@CA porous heterostructure for ultra-fast and ultra-high adsorption efficacy: investigation towards the remediation of chromium and lead, <i>Environmental Science Advances</i> , 2022, 1(5), 827-848

77.	Radu E.R., Semenescu A., Voicu S.I., Recent Advances in Stimuli-Responsive Doxorubicin Delivery Systems for Liver Cancer Therapy, <i>Polymers</i> , 2022, 14(23), 5249
78.	Rathnayake A., Hettithanthri O., Sandanayake S., Rajapaksha A.U., Vithanage M., Essence of hydroxyapatite in defluoridation of drinking water: A review, <i>Environmental Pollution</i> , 2022, 311, 119882
79.	Injorhor P., Trongsatikul T., Wittayakun J., Ruksakulpiwat C., Ruksakulpiwat Y., Nano-Hydroxyapatite from White Seabass Scales as a Bio-Filler in Polylactic Acid Biocomposite: Preparation and Characterization, <i>Polymers</i> , 2022, 14(19), 4158
80.	Voicu S.I., Thakur V.K., Graphene-based composite membranes for nanofiltration: performances and future perspectives, <i>Emergent Materials</i> , 2022, 5(5), 1429-1441
81.	Hajibeygi M., Faramarzinia S., Shabaniyan M., Norouzbahari S., Meier-Haack J., Hydrazide-hydrazone-modified polyamide as reinforcement and dispersion aid for poly(lactic acid)/hydroxyapatite nanocomposites, <i>materials Chemistry and Physics</i> , 2022, 289, 126497
82.	Liang B., Feng T., Yuan X., Li C., Han Y., Proportion-dependent osteogenic activity of electrospun nano-hydroxyapatite/polylactic acid fiber membrane in vitro and in vivo, <i>Materials and Design</i> , 2022, 219, 110834
83.	Senatov F., Zimina A., Chubrik A., Gromov A., Karyagina A., Effect of recombinant BMP-2 and erythropoietin on osteogenic properties of biomimetic PLA/PCL/HA and PHB/HA scaffolds in critical-size cranial defects model, <i>Biomaterials Advances</i> , 2022, 135, 112680
84.	Nasrallah D.A., Ibrahim M.A., Enhancement of physico-chemical, optical, dielectric and antimicrobial properties of polyvinyl alcohol/carboxymethyl cellulose blend films by addition of silver doped hydroxyapatite nanoparticles, <i>Journal of Polymer research</i> , 2022, 29(3), 86
85.	Radu E.R., Voicu S.I., Functionalized Hemodialysis Polysulfone Membranes with Improved Hemocompatibility, <i>Polymers</i> , 2022, 14(6), 1130
86.	Naveed N., Dutta K., Balamurugan D., Haveri A.V., Sabapathy K., Oil-Incorporated Poly(Lactic Acid) as an Alternative Material for Orthodontic Base Plate: A 3D Printing Approach, <i>Advanced in Polymer Technology</i> , 2022, 7448575
87.	Igwe Idumah C., Nwabanne J.T., Tanjung F.A., Novel trends in poly (lactic) acid hybrid bionanocomposites, <i>Cleaner Materials</i> , 2021, 2, 100022
88.	Rana A.K., Gupta V.K., Saini A.K., Adbellattifaand M.H., Thakur V.K., Water desalination using nanocelluloses /cellulose derivatives based membranes for sustainable future, <i>Desalination</i> , 2021, 520, 115359
89.	Nawrocka A., Piwonski I., Sauro S., Hardan L., Lukomska-Szymanska M., Traditional microscopic techniques employed in dental adhesion research-applications and protocols of specimen preparation, <i>Biosensors</i> , 2021, 11(11), 408
90.	Slota D., Florkiewicz W., Pietak K., Rudnicka K., Sobczak-Kupiec A., Preparation, characterization, and biocompatibility assessment of polymer-ceramic composites loaded with <i>Salvia officinalis</i> extract, <i>Materials</i> , 2021, 14(20) 6000
91.	Malek N.S.A., Faizuwan M., Khusaimi Z., Rusop M., Asli N.A., Preparation and Characterization of Biodegradable Polylactic Acid (PLA) Film for Food Packaging Application: A Review, <i>Journal of Physics Conference Series</i> , 2021, 1892(1), 012037
92.	Palla-Papavlu A., Voicu S.i., Dinescu M., Sensitive materials and coating technologies for surface acoustic wave sensors, <i>Chemosensors</i> , 2021, 9(5), 105
93.	Arunagiri, V., Prasannan, A., Udomsin, J., Lai, J.-Y., Wang, C.-F., Hong, P.-D., Tsai, H.C., Facile fabrication of eco-friendly polycaprolactone (PCL)/Poly-D, L-Lactic acid (PDLLA) modified melamine sorbent for oil-spill cleaning and water/oil (W/O) emulsion separation (2021) <i>Separation and Purification Technology</i> , 259, art. No. 118081
94.	Bedir, T., Ulag, S., Aydogan, K., Sahin, A., Karademir Yilmaz, B., Guvenc, Y., Bozlar, M., Ustundag, C.B., Gunduz, O., Effect of electric stimulus on human adipose-derived mesenchymal stem cells cultured in 3D-printed scaffolds (2021) <i>Polymers for Advanced Technologies</i> , 32 (3), pp. 1114-1125.
95.	Voicu, S.I., Miculescu, M., Advanced composite biomaterials, (2021) <i>Materials</i> , 14 (3), art. no. 625, pp. 1-3.
96.	Wang, Y., Li, J., Guo, X., Wang, H., Qian, F., Lv, Y., Active biodegradable polyvinyl alcohol-hemicellulose/tea polyphenol films with excellent moisture resistance prepared via ultrasound assistance for food packaging, (2021) <i>Coatings</i> , 11 (2), art. no. 219, pp. 1-15
97.	Zimina, A., Senatov, F., Choudhary, R., Kolesnikov, E., Anisimova, N., Kiselevskiy, M., Orlova, P., Strukova, N., Generalova, M., Manskikh, V., Gromov, A., Karyagina, A., Biocompatibility and physico-chemical properties of highly porous PLA/HA scaffolds for bone reconstruction, 2020, <i>Polymers</i> , 12 (12), art. no. 2938, pp. 1-18

98.	Oprea, M., Voicu, S.I., Cellulose composites with graphene for tissue engineering applications, 2020, <i>Materials</i> , 13 (23), art. no. 5347, pp. 1-24
99.	Shi, X., Bai, S., Li, Y., Yu, X., Naito, K., Zhang, Q., Effect of polyethylene glycol surface modified nanodiamond on properties of polylactic acid nanocomposite films, 2020, <i>Diamond and Related Materials</i> , 109, art. no. 108092
100.	Serbanescu, O.S., Voicu, S.I., Thakur, V.K., Polysulfone functionalized membranes: Properties and challenges, 2020, <i>Materials Today Chemistry</i> , 17, art. no. 100302
101.	Thunsiri, K., Pitjarnit, S., Pothacharoen, P., Pruksakorn, D., Nakkiew, W., Wattanutchariya, W., The 3D-printed bilayer's bioactive-biomaterials scaffold for full-thickness articular cartilage defects treatment, 2020, <i>Materials</i> , 13 (15), art. no. 3417, pp. 1-26
102.	Ivorra-Martinez, J., Quiles-Carrillo, L., Boronat, T., Torres-Giner, S., Covas, J.A., Assessment of the mechanical and thermal properties of injection-molded poly(3-hydroxybutyrate-co-3-hydroxyhexanoate)/hydroxyapatite nanoparticles parts for use in bone tissue engineering, 2020, <i>Polymers</i> , 12 (6), art. no. 1389
103.	Oprea, M., Voicu, S.I., Recent advances in applications of cellulose derivatives-based composite membranes with hydroxyapatite, 2020, <i>Materials</i> , 13 (11), art. no. 2481
104.	Pitjarnit, S., Thunsiri, K., Nakkiew, W., Wongwichai, T., Pothacharoen, P., Wattanutchariya, W., The possibility of interlocking nail fabrication from FFF 3D printing PLA/PCL/HA composites coated by local silk fibroin for canine bone fracture treatment, 2020, <i>Materials</i> , 13 (7), art. no. 1564
105.	de Almeida Cavalcante, L., Ribeiro, L.S., Takeno, M.L., Pandava Aum, P.T., Aum, Y.K.P.G., Silva Andrade, J.C., Chlorapatite derived from fish scales, 2020, <i>Materials</i> , 13 (5), art. no. 1129
106.	Nedaipour, F., Bagheri, H., Mohammadi, S., "Polylactic acid-polyethylene glycol-hydroxyapatite composite" an efficient composition for interference screws, 2020, <i>Nanocomposites</i> , pp. 1-12
	<b>E. Vasile, A.M. Pandele, C. Andronescu, A. Selaru, S. Dinescu, M. Costache, A. Hanganu, MD. Raicopol, M. Teodorescu, Hema-Functionalized Graphene Oxide: a Versatile Nanofiller for Poly(Propylene Fumarate)-Based Hybrid Materials, <i>Scientific Reports</i>, 9 (2019), 18685, 10.1038/s41598-019-55081-2</b>
1.	Islam S.S., Kumari A., Pathan S., Reddy H.A., Base S., Graphene oxide liquid crystal membranes offer precise molecular sieving, <i>Chemical Engineering Journal</i> , 2025, 518, 164878
2.	Ajit K., Jhon J., Kishnan H., Carbon veil anode for microbial fuel cells: Comparing the performances of biocatalyst-modified anodes with large-area anodes, <i>Surfaces and Interfaces</i> , 2025, 61, 106103
3.	Radu IC, Tanasa E., Dinescu S., Vlasceanu D., Zharia C., Advanced Nanobiocomposite Hydrogels Incorporating Organofunctionalized LDH for Soft Tissue Engineering Applications, <i>Polymers</i> , 2025, 17(4), 536
4.	Lu Y.C., Chang T.K., Lin T.C., Fang H.W., Huang C.H., Potential role of calcium sulfate/ $\beta$ -tricalcium phosphate/graphene oxide nanocomposite for bone graft application_mechanical and biological analyses, <i>Journal of Orthopaedic Surgery and Research</i> , 2024, 19(1), 644
5.	Shafi T., Das C., Dubey B.K., Chowdhury S., Aerogels Made of Few-Layer WS <sub>2</sub> Nanosheets and Nitrogen-Doped Graphene for Photocatalytic Degradation of Caffeine, <i>ACS Applied Nano Materials</i> , 2024, 7(2), 1723-1737
6.	Parasuram S., Banerjee P., Raj R., Kumar S., Bose S., Electrophoretically Deposited Multiscale Graphene Oxide/Carbon Nanotube Construct Mediated Interfacial Engineering in Carbon Fiber Epoxy Composites, <i>ACS Applied Materials and Interfaces</i> , 2023, 15(23), 28581-28593
7.	Wang Z., Xiong H., Zhai Z., Fan C., Gao C., Reactive oxygen species-scavenging nanoparticles coated with chondroitin sulfate protect cartilage against osteoarthritis in vivo, <i>Nano Research</i> , 2023, 16(2), 2786-2797
8.	De Souza Freire L., Ruzo C.M., Salgado B.B., Lalwani P., Brito W.R., An Electrochemical Immunosensor Based on Carboxylated Graphene/SPCE for IgG-SARS-CoV-2 Nucleocapsid Determination, <i>Biosensors</i> , 2022, 12(12), 1161
9.	Farag A.A., Garaf Afif A., Salih S.A., Mohamed E.A., Mohamed G.G., Highly Efficient Elimination of Pb <sup>2+</sup> and Al <sup>3+</sup> Metal Ions from Wastewater Using Graphene Oxide/3,5-Diaminobenzoic Acid Composites: Selective Removal of Pb <sup>2+</sup> from Real Industrial Wastewater, <i>ACS Omega</i> , 2022, 7(43), 38347-38360
10.	Moon S.H., Choi H.N., Yang Y.J., Natural/Synthetic Polymer Materials for Bioink Development, <i>Biotechnology and Bioprocess Engineering</i> , 2022, 27(4), 482-493
11.	Labani Motlagh K., Seyfi J., Khonakdar H.A., Mortazavi S., Investigating the Effects of Graphene Content and Application Method on Surface Properties of Vinyl Ester/Silica Aerogel Coatings, <i>Macromolecular research</i> , 2022, 30(5), 334-341
12.	Moradi O., Madanpisheh M.A., Moghaddas M., Synthesis of GO/HEMA, GO/HEMA/TiO <sub>2</sub> , and GO/Fe <sub>3</sub> O <sub>4</sub> /HEMA as novel nanocomposites and their dye removal ability, <i>Advanced Composites and Hybrid Materials</i> , 2021, 4(4), 1185-1204
13.	Zhang W., Li S., Ma J., Liu C., Yan H., Ph-induced electrostatic interaction between polyacrylates and amino-functionalized graphene oxide on stability and coating performances, <i>Polymers</i> , 2021, 13(19), 3406

14.	Alamgir M., Nayak G.C., Mallick A., Sahoo S., Effects of TiO <sub>2</sub> and GO nanoparticles on the thermomechanical properties of bioactive poly-HEMA nanocomposites, Iranian Polymer Journal English Edition, 2021, 30(10), 1089-1099
15.	Hoseinzadeh H., Hayati B., Shahmoradi Ghaheh F., Seifpanahi-Shabani K., Mahmoodi N.M., Development of room temperature synthesized and functionalized metal-organic framework/graphene oxide composite and pollutant adsorption ability, Materials research Bulletin, 2021, 142, 111408
16.	Rahdar A., Hajiezhad M.R., Hamishekar H., Ghamkhari A., Kyzas G.Z., Copolymer/graphene oxide nanocomposites as potential anticancer agents, Polymer Bulletin, 2021, 78(9), 4877-1898
17.	Jha, R., Singh, A., Sharma, P.K., Porwal, O., Fuloria, N.K., Graphene-based nanomaterial system: a boon in the era of smart nanocarriers (2021) Journal of Pharmaceutical Investigation, 51 (3), pp. 245-280
18.	Biryán, F., Açıkses, A., Demirelli, K., Polymerization of 2-hydroxyethyl methacrylate by hydro/solvothermal technique in presence of nanographene: electrical and thermal degradation characterization(2021) Journal of Thermal Analysis and Calorimetry, 143 (1), pp. 213-226
19.	Zygo, M., Mrlik, M., Ilcikova, M., Hrabalíková, M., Osicka, J., Cvek, M., Sedlacik, M., Hanulíková, B., Munster, L., Skoda, D., Urbánek, P., Pietrasik, J., Mosnáček, J., Effect of structure of polymers grafted from graphene oxide on the compatibility of particles with a silicone-based environment and the stimuli-responsive capabilities of their composites, 2020, Nanomaterials, 10 (3), art. no. 591
20.	Rahdar, A., Hajiezhad, M.R., Hamishekar, H., Ghamkhari, A., Kyzas, G.Z., Copolymer/graphene oxide nanocomposites as potential anticancer agents, 2020, Polymer Bulletin
21.	Liu P, New Design Consideration of Polymer Matrix Composite Materials, Encyclopedia of Materials Composites, 2021, 1, 1029-1037
22.	Zygo M., Mrlik M., Ilcikova M., Pietrasik J., Mosnacek J., Effect of structure of polymers grafted from graphene oxide on the compatibility of particles with a silicone-based environment and the stimuli-responsive capabilities of their composites, Nanomaterials, 2020, 10(3), 591
C.A. Dascalu, A. Maidaniuc, <b>AM. Pandele</b> , SI. Voicu, T. Machedon-Pisu, GE Stan, A. Cimpeanu, V. Mitran, IV. Antoniac, F. Miculescu, Synthesis and characterization of biocompatible polymer-ceramic film structures as favorable interface in guided bone regeneration, <b>Applied Surface Science</b> , 494 (2019), 335-352, 10.1016/j.apsusc.2019.07.098	
1.	Meng C., Liu X., Li J., Hierarchical porous PLLA/ACP fibrous membrane towards bone tissue scaffold, Journal of the Mechanical Behavior of Biomedical, 2024, 152, 106455
2.	Demeter M., Calina I., Scarisoreanu A., Matei E., Mitu B., Biocompatible and antimicrobial chitosan/PVP/PEO/PAA/AgNP composite hydrogels synthesized by e-beam cross-linking, Radiation Physics and Chemistry, 2024, 216, 111391
3.	Patra n., Yeswanth B., Synthesis and applications of hybrid ceramic polymer nanocomposites, Hybrid Nanofiller for Polymer reinforcement Synthesis Assembly Characterization and Applications, 2024, 361-390
4.	Zhao W., Yu Z., Hu J., Effect of microstructure and chemical composition on cell orientation and proliferation viability of titanium alloy processed by pulse lasers, Ceramic International, 2023, 49(24), 40031-40042
5.	Georgeanu V.A., Gingu O., Antoniac I.V., Manolea H.O., Current Options and Future Perspectives on Bone Graft and Biomaterials Substitutes for Bone Repair, from Clinical Needs to Advanced Biomaterials Research, Applied Sciences Switzerland, 2023, 13(14), 8471
6.	Abbas M., Alqahtani M.S., Alhifzi R., Recent Developments in Polymer Nanocomposites for Bone Regeneration, International Journal of Molecular Sciences, 2023, 24(4), 3312
7.	Janmohammadi M., Nazemi Z., Salehi A.O.M., Nourbakhsh M.S., Akbari M., Cellulose-based composite scaffolds for bone tissue engineering and localized drug delivery, Bioactive Materials, 2023, 20, 137-163
8.	Jain C., Surabhi P., Marathe K., Critical review on the developments in polymer composite materials for biomedical implants, Journal of Biomaterials Science Polymer Edition, 2023, 34(7), 893-917
9.	David N., Cellulose in tissue engineering, Natural Biopolymers in Drug Delivery and Tissue Engineering, 2023, 481-500
10.	Atia G.A., Shalaby H.K., Roomi A.B., Foda T., Dinu S., Macro, Micro, and Nano-Inspired Bioactive Polymeric Biomaterials in Therapeutic, and Regenerative Orofacial Applications, Drug Design Development and Therapy, 2023, 17, 2985-3021
11.	Cotrut C.M., Ungureanu E., Ionescu I.C., Vranceanu D.M., Saceleanu A., Influence of Magnesium Content on the Physico-Chemical Properties of Hydroxyapatite Electrochemically Deposited on a Nanostructured Titanium Surface, Coatings, 2022, 12(8), 1097
12.	Tite T., Popa A.C., Staurt B.W., Ferreira J.M.F., Stan G.E., Independent and complementary bio-functional effects of CuO and Ga <sub>2</sub> O <sub>3</sub> incorporated as therapeutic agents in silica- and phosphate-based bioactive glasses, Journal of Materiomics, 2022, 8(4), 893-905

13.	Nakoneczny D.S., Antonowicz M., Heim T., Matus K., Lemanowicz M., Cenospheres-Reinforced PA-12 Composite: Preparation, Physicochemical Properties, and Soaking Tests, <i>Polymers</i> , 2022, 14(12), 2332
14.	Retegi-Carrion S., Ferrandez-Montero A., Eguiluz A., Ferrari B., Abarrategi A., The Effect of Ca <sup>2+</sup> and Mg <sup>2+</sup> Ions Loaded at Degradable PLA Membranes on the Proliferation and Osteoinduction of MSCs, <i>Polymers</i> , 2022, 14(12), 2422
15.	Necula M.G., Mazare A., Negrescu A.M., Schmuki P., Cimpeanu A., Macrophage-like Cells Are Responsive to Titania Nanotube Intertube Spacing—An In Vitro Study, <i>International Journal of Molecular Sciences</i> , 2022, 23(7), 3558
16.	Vranceanu D.M., Ungureanu E., Ionescu I.C., Vladescu A., Cotrut C.M., Electrochemical Surface Biofunctionalization of Titanium through Growth of TiO <sub>2</sub> Nanotubes and Deposition of Zn Doped Hydroxyapatite, <i>Coatings</i> , 2022, 12(1), 69
17.	Robu A., Antoniac A., Grosu E., Ditu L.M., Saceleanu V., Additives imparting antimicrobial properties to acrylic bone cements, <i>Materials</i> , 2021, 14(22), 7031
18.	Ion R., Cabon G., Gordin D.M., Gloriant T., Cimpeanu A., Endothelial cell responses to a highly deformable titanium alloy designed for vascular stent applications, <i>Journal of Functional Biomaterials</i> , 2021, 12(2), 33
19.	Negrescu A.M., Necula M.G., Ghebur A., Costache M., Cimpeanu A., In vitro macrophage immunomodulation by poly( $\epsilon$ -caprolactone) based-coated AZ31 Mg Alloy, <i>International Journal of Molecular Sciences</i> , 2021, 22(2), 1-36
20.	Monarrez-Cordero B.E., Rodriguez-gonzalez C.A., Valencia-Gomez L.E., Camacho-Montes H., Olivas-Armendariz I., The effect of Allium cepa extract on the chitosan/PLGA scaffolds bioactivity, <i>Journal of Applied Biomaterials and Functional Materials</i> , 2021, 19
21.	Gherasim O., Popescu-Pelin G., Florian P., Cimpeanu A., Socol G., Bioactive ibuprofen-loaded plga coatings for multifunctional surface modification of medical devices, <i>Polymers</i> , 2021, 13(9), 1413
22.	Lu, Z., Wang, W., Zhang, J., Bártolo, P., Gong, H., Li, J., Electrospun highly porous poly(L-lactic acid)-dopamine-SiO <sub>2</sub> fibrous membrane for bone regeneration, 2020, <i>Materials Science and Engineering C</i> , 117, art. no. 111359
23.	Chen, Z.-C., Chang, T.-L., Liu, C.-C., Hsiao, W.-T., Huang, C.-H., Picosecond laser surface modification of aluminum oxide with fish-scale structures for cell culture, 2020, <i>Ceramics International</i> , 46 (11), pp. 17651-17658
24.	Oprea, M., Voicu, S.I., Recent advances in applications of cellulose derivatives-based composite membranes with hydroxyapatite, 2020, <i>Materials</i> , 13 (11), art. no. 2481
25.	Negrescu, A.-M., Necula, M.-G., Gebaur, A., Golgovici, F., Nica, C., Curti, F., Iovu, H., Costache, M., Cimpean, A., In vitro macrophage immunomodulation by poly( $\epsilon$ -caprolactone) based-coated AZ31 Mg Alloy (2021) <i>International Journal of Molecular Sciences</i> , 22 (2), art. no. 909, pp. 1-36
26.	Gradinaru, S., Tabaras, D., Gheorghe, D., Gheorghita, D., Zamfir, R., Vasilescu, M., Dobrescu, M., Grigorescu, G., Cristescu, I., Analysis of the anisotropy for 3D printed pla parts usable in medicine, (2019) <i>UPB Scientific Bulletin, Series B: Chemistry and Materials Science</i> , 81 (4), pp. 313-324
MD. Raicopol, C. Andronescu, SI. Voicu, E.Vasile, <b>AM Pandele*</b> , Cellulose acetate/layered double hydroxide adsorptive membranes for efficient removal of pharmaceutical environmental contaminants, <b>Carbohydrate Polymers</b> , 214 (2019), 204-212, <a href="https://doi.org/10.1016/j.carbpol.2019.03.042">10.1016/j.carbpol.2019.03.042</a>	
1.	Ma L., Guo W., Chen L., Sun X., Liu S., Deep eutectic solvent extraction of polysaccharides from Lycium barbarum residue: Optimization, composition analysis, and antioxidant activity, <i>Journal of Agriculture and Food Research</i> , 2025, 23, 102300
2.	Mphateng T.N., Mapossa A.B., Mokhena T., Ray S.S., Sundararaj U., Melt Processing of Cellulose Acetate for Controlled Release Applications – A Review, <i>Macromolecular Materials and Engineering</i> , 2025, 310(9), e00117
3.	Munnagapati V.S., wen H.Y., wen J.C., Sangaraju S., Choi H.Y., Biopolymer-inorganic hybrid composites: The expanding role of cellulose/layered double hydroxides (LDHs) in advanced applications, <i>Inorganic Chemistry Communications</i> , 2025, 179, 114795
4.	Maloufi M., Djelad A., Mokhtar a., Ghamnia M., Sassi M., Fabrication and characterization of cellulose-based packaging films with polyethylene glycol and silver nanoparticles for enhanced antimicrobial efficacy, <i>International Chemistry Biological Macromolecules</i> , 2025, 308, 142381
5.	Xuan Y., fen X., Liu S, Liu X., Layered double hydroxide-based membranes for advanced water treatment: Structural engineering and multifunctional applications, <i>Chemical Engineering Journal</i> , 2025, 511, 161746
6.	Zhao W., Xu Y., Qiao Y., Zhan X., Zhang Q., Layered double hydroxide-based membranes for advanced water treatment: Structural engineering and multifunctional applications, <i>Separation and Purification Technology</i> , 2025, 355, 129729
7.	Pan Y., Li L., Liu D., Xia M., Wang F., Macroscale structures of layered double hydroxides: A review of formation strategies and applications in water treatment , <i>Journal of Environmental Chemical Engineering</i> , 2025, 13(1), 115284

8.	Patil Y., Li L., Liu D., Xia M., Wang F., Macroscale structures of layered double hydroxides: A review of formation strategies and applications in water treatment, <i>Journal of Environmental Chemical Engineering</i> , 2025, 13(1), 115284
9.	Chen Y., Xu H., Khan M.S., Han S., Zhu S., Recent advances in layered double hydroxides for pharmaceutical wastewater treatment: A critical review, <i>Critical Reviews in Environmental Science and Technology</i> , 2025, 55(14), 1097-1123
10.	Nor Azman M., Goh P.S., Lin Y., Suzaimi N.D., Mohamad Fahmi A.H., Exfoliated LDH nanosheets for membrane-based wastewater treatment: surface engineering and performance, <i>Journal of Industrial and Engineering Chemistry</i> , 2025,
11.	Hammood Z.A., Mohammed A.A., Understanding the sorbent properties of layered double hydroxide for the removal of pharmaceuticals from aqueous solutions: A comprehensive review, <i>Results in Chemistry</i> , 2025, 13, 101952
12.	Khan M.R., Liao S., Wasim M., Wang Q., Wei Q., Synergetic effects of tetracycline hydrochloride incorporated regenerated cellulose acetate - Bacterial cellulose hybrid nanocomposite: Potential in biomedical application, <i>International Journal of Biological Macromolecules</i> , 2024, 281, 136563
13.	Suliani Raota C., Duarte J., da Silva Crespo J., Baldasso C., Giovanela M., Process optimization for the removal of sodium diclofenac from water using a green polymeric membrane, <i>Journal of Environmental Chemical Engineering</i> , 2024, 12(5), 113237
14.	Padhan B., Ryoo W., Patel M., Dash J.K., Patel R., Cutting-Edge Applications of Cellulose-Based Membranes in Drug and Organic Contaminant Removal: Recent Advances and Innovations, <i>Polymers</i> , 2024, 16(20), 2938
15.	Hubetska T., Demchenko V., Kobylinska N., Surface engineering: binary Mg,Fe-LDH·xFe <sub>3</sub> O <sub>4</sub> nanocomposites for improved magnetic solid-phase extraction of pharmaceuticals from aqueous solution, <i>Materials Advances</i> , 2024, 5(20), 8145-8163
16.	Nasiri M., Abdi S., Fabrication and Performance Evaluation of the Polyamide Thin Film Composite Membrane in Desalination and Removal of Naproxen from Aqueous Solutions, <i>Applied Chemistry Today</i> , 2024, 19(72), 339-364
17.	Farhan A., Khalid A., Maqsood N., Sillanpaa M., Asif M.B., Progress in layered double hydroxides (LDHs): Synthesis and application in adsorption, catalysis and photoreduction, <i>Science of the Total Environment</i> , 2024, 912, 169160
18.	Ullah A., Lee G.J., Kwon H.T., Lim S.I., Covalent immobilization of human serum albumin on cellulose acetate membrane for scavenging amyloid beta – A stepping extracorporeal strategy for ameliorating Alzheimer's disease, <i>Colloids and Surfaces B, Biointerfaces</i> , 2024, 234, 113753
19.	Vrasna D.K., Goh P.S., Ahmad N.A., Ismail A.F., Matsuyama H., Thin film nanocomposite forward osmosis membrane with exfoliated layered double hydroxide nanosheets embedded support for fouling-resistant microalgae dewatering, <i>Journal of Water Process Engineering</i> , 2024, 58, 104800
20.	Wang H., Yang J., Zhang H., Li G., Liang H., Membrane-based technology in water and resources recovery from the perspective of water social circulation: A review, <i>Science of the Total Environment</i> , 2024, 908, 168277
21.	Guastaferrero M., Vaiano V., Baldino L., Cardea S., Reverchon E., Production of Photocatalytic Membranes by Supercritical Phase Inversion for the Removal of Antibiotics from Waste-Water, <i>Chemical Engineering Transactions</i> , 2024, 110, 7-12
22.	Nava-Andrade K., Guevara-Martinez S.J., Layered Double Hydroxide Adsorbents for Pharmaceutical Removal, <i>Advanced Materials for Pharmaceutical Wastewater Treatment</i> , 2024, 98-116
23.	Khan M.N., Abidin Z.U., Khan S., Mustafa S., Ahmad I., Birefringence of cellulose: review, measurement techniques, dispersion models, biomedical applications and future perspectives, <i>Wood Science and Technology</i> , 2024, 58(1), 5-22
24.	Zhang Y., Wu H., Zhang W., Yang F., Polymer Nanocomposites Based on Nano Magnesium Hydroxide, <i>Chemical Physics of Polymer Nanocomposites Processing Morphology Structure Thermodynamics Rheology Volume III</i> , 2024, 423-469
25.	Oprea M., Voicu S.I., Cellulose acetate-based membranes for the removal of heavy metals from water in the context of circular economy, <i>Industrial Crops and Products</i> , 2023, 206, 117716
26.	Kouda I., Ben Seddik N., Laaziz A., Draoui K., Elmidaoui A., Efficient removal of cationic dye from wastewater using novel low-cost adsorbent, cellulose-clay composite: Insights from isotherm, kinetic, thermodynamic, and molecular dynamics simulation studies, <i>Journal of Molecular Structure</i> , 2023, 1291, 135865
27.	Carolin C.F., Kamalesh T., Kumar P.S., Hemavathy R.V., Rangasamy G., A critical review on sustainable cellulose materials and its multifaceted applications, <i>Industrial Crops and Products</i> , 2023, 203, 117221
28.	Voicu S.I., Thakur V.K., Green polymers-based membranes for water reuse in a circular economy context, current Opinion in Green and Sustainable Chemistry, 2023, 43, 100852

29.	Khan M.R., Liao S., Farooq A., Wasim M., Wei Q., Regeneration and modification of cellulose acetate from cigarette waste: Biomedical potential by encapsulation of tetracycline hydrochloride, <i>international Journal of Biological Macromolecules</i> , 2023, 250, 126266
30.	Islam M.D., Uddin F.J., Rashid T.U., Shahruzzaman M., Cellulose acetate-based membrane for wastewater treatment—A state-of-the-art review, <i>Materials Advances</i> , 2023, 4(18), 4054-4102
31.	Raota C.S., Crespo J.D.S., Baldasso C., Giovanela M., Development of a Green Polymeric Membrane for Sodium Diclofenac Removal from Aqueous Solutions, <i>Membranes</i> , 2023, 13(7), 662
32.	Nawaz S., Tabassum A., Muslim S., jesionowski T., Bilal M., Effective assessment of biopolymer-based multifunctional sorbents for the remediation of environmentally hazardous contaminants from aqueous solutions, <i>chemosphere</i> , 2023, 138552
33.	Wu S., Shi W., Li K., lu j., Ding F., Chitosan-based hollow nanofiber membranes with polyvinylpyrrolidone and polyvinyl alcohol for efficient removal and filtration of organic dyes and heavy metals, <i>International Journal of Biological Macromolecules</i> , 2023, 239, 124264
34.	Wang P., Jiang S., Zeng J., Song B., Wang B., A functional cobalt-organic framework constructed by triphenylamine tricarboxylate: Detect nitroaromatics by fluorescence sensing and UV-shielding, <i>Talanta</i> , 2023, 256, 124319
35.	Oprea M., Voicu S.I., Cellulose Acetate-Based Materials for Water Treatment in the Context of Circular Economy, <i>Water Switzerland</i> , 2023, 15910), 1860
36.	Wang Y., Cui Y., Gui Q., Shi S., Chan X., PEG promoted anti-fouling adsorptive membranes with excellent adsorption performance for removal of pharmaceuticals from water, <i>Journal of Environmental Chemical Engineering</i> , 2023, 11(1), 109263
37.	Krishnan S.A.G., Gumpu M.B., Arthanareeswaran g., Aziz F., Ismail A.F., Electrochemical quantification of atrazine-fulvic acid and removal through bismuth tungstate photocatalytic hybrid membranes, <i>Chemosphere</i> , 2023, 311, 137016
38.	Mpupa A., Nomngongo P.N., Nanoclay-based nanoadsorbents for wastewater treatment, <i>Adsorption Through Advanced Nanoscale Materials Applications in Environmental remediation</i> , 2023, 241-258
39.	Qalyoubi L., Al-Othman A., Al-Asheh S., Removal of ciprofloxacin antibiotic pollutants from wastewater using nano-composite adsorptive membranes, <i>Environmental Research</i> , 2022, 215, 114182
40.	Peramune D., Manatunga D.C., Dassanayake R.S., Gunathilake C., Abidi N., Recent advances in biopolymer-based advanced oxidation processes for dye removal applications: A review, <i>Environmental research</i> , 2022, 215, 114242
41.	Shad S., Lynch I., Shah S.W.H., Bashir N., Remediation of Water Using a Nanofabricated Cellulose Membrane Embedded with Silver Nanoparticles, <i>Membranes</i> , 2022, 12(11), 1035
42.	Zhang h., Xiao s., Du Y., Wang H., Wu Q., Catalysis of MnO <sub>2</sub> -cellulose acetate composite films in DBD plasma system and sulfamethoxazole degradation by the synergistic effect, <i>Separation and Purification Technology</i> , 2022, 298, 121608
43.	Voicu S.I., Thakur V.K., Graphene-based composite membranes for nanofiltration: performances and future perspectives, <i>emergent Materials</i> , 2022, 5(5), 1429-1441
44.	Zhang S., Malik S., Ali N., Bilal M., Rasool K., Covalent and Non-covalent Functionalized Nanomaterials for Environmental Restoration, <i>Topics in current Chemistry</i> , 2022, 380(4), 44
45.	Qi J., Chen Y., Xu L., Lin H., Li Z.M., Highly Transparent, Self-Reinforced, and Hydrophobic Cellulose Acetate Films Fabricated Based on Thermal Stretching and Surface Engineering, <i>Industrial and Engineering Chemistry Research</i> , 2022, 61(37), 14150-14158
46.	Ajala O.J., Khadir A., Ighola J.O., Umenweke G.C., Cellulose-based nano-biosorbents in water purification, <i>Nano Biosorbents for Decontamination of water Air and Soil Pollution</i> , 2022, 395-415
47.	He L., Zhi J., Li H., Xu Y., Li X., Peroxymonosulfate activation by magnetic NiCo layered double hydroxides for naproxen degradation, <i>colloids and Surfaces A Physicochemical dn Engineering Aspects</i> , 2022, 642, 128696
48.	Adam M.R., Othman M.H.D., Kurniawan T.A., Rahman M.A., Jaafar J., Advances in adsorptive membrane technology for water treatment and resource recovery applications: A critical review, <i>Journal of environmental Chemical engineering</i> , 2022, 10(3), 107633
49.	Gautam R.K., Singh a.K., Tiwari I., Nanoscale layered double hydroxide modified hybrid nanomaterials for wastewater treatment: A review, <i>Journal of Molecular Liquids</i> , 2022, 350, 118505
50.	Miri S., Nadeem H., Hora Y., Andrews P.C., Batchelor W., Depth filtration application of nanofibrillated cellulose-mesoporous silica nanoparticle composites as double-layer membranes, <i>journal of Enironmental Chmical engineering</i> , 2022, 1091), 106892

51.	Wang Y., jiang M., Wang Y., Xu J., Zhi S., Advance in construction of layered double hydroxides and their treatment with antibiotics in water, huagong Jinzhan Chemical Industry and Engineering Progress, 2022, 41(2), 803-815
52.	Yang F., yang P., Biopolymer-Based Membrane Adsorber for Removing Contaminants from Aqueous Solution: Progress and Prospects, Macromolecular rapid Communications, 2022, 43(3), 2100669
53.	Oprea M., Ficai A., Ilie C., Serbanescu O.S., Voicu S.I., ZINC-LOADED CELLULOSE ACETATE MEMBRANES WITH POTENTIAL BIOMEDICAL APPLICATIONS, UPB Scientific Bulletin Series C Chemistry and Materials Science, 2022, 84(2), 15-30
54.	Liu Y., Layered Double Hydroxide Membranes for Versatile Separation Applications, Two Dimensional Materials Based membranes Preparation Characterization and Applications, 2022, 221-252
55.	Sajid M., Sajid jillani S.M., Baig N., Alhooshani K, Layered double hydroxide-modified membranes for water treatment: Recent advances and prospects, Chemosphere, 2022, 287, 132140
56.	Rana A.K., Gupta V.K., Abdellattifaand M.H., Thakur V.K., Water desalination using nanocelluloses/cellulose derivatives based membranes for sustainable future, Desalination, 2021, 115359
57.	Thomas D., Philip E., Tarafdar A., Pandey A., Potential of nanocellulose for wastewater treatment, Chemosphere, 2021, 281, 130738
58.	Voicu, S.I., Thakur, V.K., Aminopropyltriethoxysilane as a linker for cellulose-based functional materials: New horizons and future challenges, (2021) Current Opinion in Green and Sustainable Chemistry, 30, art. No. 100480
59.	Teixeira S.C., Silva R.R.A., de Oliveira T.V., Pinto M.R.M.R., Soares N.D.F.F., Glycerol and triethyl citrate plasticizer effects on molecular, thermal, mechanical, and barrier properties of cellulose acetate films, Food Bioscience, 2021, 42, 101202
60.	Nava-Andrade, K., Carbajal-Arízaga, G.G., Obregón, S., Rodríguez-González, V., Layered double hydroxides and related hybrid materials for removal of pharmaceutical pollutants from water, (2021) Journal of Environmental Management, 288, art. no. 112399
61.	Bessaies, H., Iftekhar, S., Asif, M.B., Khriji, J., Necibi, C., Sillanpää, M., Hamrouni, B., Characterization and physicochemical aspects of novel cellulose-based layered double hydroxide nanocomposite for removal of antimony and fluoride from aqueous solution (2021) Journal of Environmental Sciences (China), 102, pp. 301-315
62.	Abdel-Karim, A., El-Naggar, M.E., Radwan, E.K., Mohamed, I.M., Azaam, M., Kenawy, E.-R., High-performance mixed-matrix membranes enabled by organically/inorganic modified montmorillonite for the treatment of hazardous textile wastewater, (2021) Chemical Engineering Journal, 405, art. no. 126964
63.	Aziz, T., Ullah, A., Fan, H., Ullah, R., Haq, F., Khan, F.U., Iqbal, M., Wei, J., Cellulose Nanocrystals Applications in Health, Medicine and Catalysis (2021) Journal of Polymers and the Environment, 2021, 29970, 2062-2071
64.	Qalyoubi L., Al-Othman A., Al-Asheh S., Recent progress and challenges of adsorptive membranes for the removal of pollutants from wastewater. Part II: Environmental applications, Case Studies in Chemical and Environmental Engineering, 2021, 3, 100102
65.	Palla-papavlu A., Voicu S.I., Dinescu M., Sensitive materials and coating technologies for surface acoustic wave sensors, Chemosensors, 2021, 995), 105
66.	Saxena M., Mittal D., Boudh R., Verma A.K., Saxena R., Drug adsorption and anti-microbial activity of functionalized multiwalled carbon nanotubes, Advances in Nano Research, 2021, 11(6), 667-678
67.	Moreno-Castilla C., Rivera-Utrilla J., Sanchez-Polo M., Lopez-Roman M.V., Remediation of water polluted with model endocrine disruptors based on adsorption processes, Sorbents Materials for Conrolling Environmental Pollution Current State and Trends, 2021, 75-112
68.	Liu, Y., Gan, D., Chen, M., Ma, L., Yang, B., Li, L., Zhu, M., Tu, W., Bioinspired dopamine modulating graphene oxide nanocomposite membrane interposed by super-hydrophilic UiO-66 with enhanced water permeability, 2020, Separation and Purification Technology, 253, art. no. 117552
69.	Kotp, Y.H., Enhancement of Industrial Effluents Quality by Using Nanocomposite Mg/Al LDH Ultrafiltration Membranes, 2020, Journal of Inorganic and Organometallic Polymers and Materials, 30 (12), pp. 5244-5260
70.	Oprea, M., Voicu, S.I., Recent advances in applications of cellulose derivatives-based composite membranes with hydroxyapatite, 2020, Materials, 13 (11), art. no. 2481
71.	Yang, Y., Chang, S., Bai, Y., Du, Y., Yu, D.-G., Electrospun triaxial nanofibers with middle blank cellulose acetate layers for accurate dual-stage drug release, 2020, Carbohydrate Polymers, 243, art. no. 116477
72.	Hou, J., Yang, J., Zheng, X., Wang, M., Liu, Y., Yu, D.-G., A nanofiber-based drug depot with high drug loading for sustained release, 2020, International Journal of Pharmaceutics, 583, art. no. 119397
73.	Lyu, B., Luo, K., Wang, Y., Gao, D., Ma, J., Sodium alginate oxide assembly layered double hydroxide and its structure-activity relationship to anti-fogging properties and flame retardancy of leather, 2020, Applied Clay Science, 190, art. no. 105559

74.	Oprea M., Voicu S.I., Recent advances in composites based on cellulose derivatives for biomedical applications, <i>Carbohydrate polymers</i> , 2020, 247, 116683
75.	Selvaraj, T., Perumal, V., Khor, S.F., Anthony, L.S., Gopinath, S.C.B., Muti Mohamed, N., The recent development of polysaccharides biomaterials and their performance for supercapacitor applications, 2020) <i>Materials Research Bulletin</i> , 126, art. no. 110839
76.	Yang, C., Wang, L., Yu, Y., Wu, P., Wang, F., Liu, S., Luo, X., Highly efficient removal of amoxicillin from water by Mg-Al layered double hydroxide/cellulose nanocomposite beads synthesized through in-situ coprecipitation method, 2020, <i>International Journal of Biological Macromolecules</i> , 149, pp. 93-100
77.	Safarpour, M., Arefi-Oskoui, S., Khataee, A., A review on two-dimensional metal oxide and metal hydroxide nanosheets for modification of polymeric membranes, 2020, <i>Journal of Industrial and Engineering Chemistry</i> , 82, pp. 31-41
78.	Arroyo, F.D., Castro-Guerrero, C.F., León-Silva, U., Thin films of cellulose acetate nanofibers from cigarette butt waste, 2020, <i>Progress in Rubber, Plastics and Recycling Technology</i> , 36 (1), pp. 3-17
79.	Mallakpour S., Hatami M., Polymer/layered double hydroxide nanocomposites: Modern industrial applications, <i>Handbook of Polymer Nanocomposites for Industrial Applications</i> , 2022, 325-355
80.	Sanchez-fernandez J.A., de Leon R.D., Cue-Sampedro R., Pharmaceutical and synthetic hormone removal using biopolymer membranes, <i>Biopolymer Membranes and Films Health Food Environment and energy Applications</i> , 2020, 397-421
81.	Zhang S., Yu C., Liu N., Teng Y., Yin C., Preparation of transparent anti-pollution cellulose carbamate regenerated cellulose membrane with high separation ability, <i>International Journal of Biological Macromolecules</i> , 2019, 139, 332-341
V. Satulu, B. Mitu, A.M. Pandele, S.I. Voicu, L. Kravets, G. Dinescu, Composite polyethylene terephthalate track membranes with thin teflon-like layers: Preparation and surface properties, <i>Applied Surface Science</i> 476 (2019) 452–459, doi: 10.1016/j.apsusc.2019.01.109.	
1.	Kravets L., Vinogradav I., Rossouw A., Nechaev A., Apel P., Functionalization of PET track-etched membranes with electrospun PVDF nanofibers for hybrid membranes fabrication in water desalination, <i>Separation and Purification technology</i> , 2025, 371, 133395
2.	Kravets L.I., Yarmolenko M.A., Gilman A.B., Mitu B., Dinescu G., Composite Membranes for Water Desalination, <i>Inorganic Materials Applied Research</i> , 2025, 16(2), 349-357
3.	Delkosh F., Qotbi A., Hossein Behroozi A., Vatanpour V., Magnetron sputtering in membrane fabrication and modification: Applications in gas and water treatment, <i>Journal of Industrial and Engineering Chemistry</i> , 2025, 143, 85-108
4.	Satulu V., Kravets L.I., Orelovich O.L., Mitu B., Dinescu G., High-Performance PET-TM/PTFE-like Composite Membranes for Efficient Salt Rejection via Air Gap Membrane Distillation, <i>Polymers</i> , 2025, 17(9), 290
5.	Kravets L.I., Yarmolenko M.A., Rogachev A.V., Altyonov V.A., Lizunov N.E., ANALYSIS OF LONG-TERM HYDROPHOBIC PROPERTIES STABILITY OF THE TEXTURED POLYMER COATINGS PRODUCED VIA ELECTRON-BEAM DEPOSITION OF POLYMERS ON THE TRACK-ETCHED MEMBRANE SURFACE, <i>High Temperature Materials Processes</i> , 2025, 29(3), 57-81
6.	Kravets L.I., Altyonov V.A., Gainutdinov R.V., Mitu B., Dinescu G., Formation of Hydrophobic Coatings on the Surface of Track-Etched Membranes Using Magnetron Sputtering of Polymers in Vacuum, <i>Inorganic Materials Applied research</i> , 2024, 15(5), 1473-1482
7.	Vinogradov I.I., Drozhzhin N.A., Kravets L.I., Vershinina T.N., Nechaev A.N., Formation of Hybrid Membranes for Water Desalination by Membrane Distillation, <i>Colloid Journal</i> , 2024, 86(9), 667-679
8.	Endiarova E.V., Osipov A.A., Shakhmin A.L., Kamalov A.M., Alexandrov S.E., Modification of cotton fabrics in inductively coupled plasma, <i>Cellulose</i> , 31(9), 1295-2024, 1309
9.	Moskvitin L.V., Slesarenko S.V., Magomedbekov E.P., Smolyanskii A.S., Thermoradiationally Modified Polytetrafluoroethylene as a Basis for Membrane Fabrication: Resistance to Hydrogen Penetration, the Effect of Ion Treatment on the Chemical Structure and Surface Morphology, Evaluation of the Track Radius, <i>Membranes</i> , 2023, 13(1), 101
10.	Voicu S.I., Thakur V.K., Graphene-based composite membranes for nanofiltration: performances and future perspectives, <i>emergent Materials</i> , 2022, 5(5), 1429-1441
11.	Kravets L.I., Yarmolenko M.A., Rogachev A.V., Altyonov V.A., Lizunov N.E., Formation of Hydrophobic and Superhydrophobic Coatings on Track-Etched Membrane Surfaces to Create Composite Membranes for Water Desalination, <i>Colloid Journal</i> , 2022, 84(4), 427-444
12.	Kuklin I., Khlebnikov N., Polyakov E., Barashev N., Zdorovets M., Investigation on electrochemical reduction of Cu(II) using a nanocomposite track membrane electrode, <i>Aip Conference Proceedings</i> , 2022, 2466, 030030
13.	Kravets L.I., Altyonov V.A., Mitu V., Dinescu G., Deposition of Hydrophobic Polymer Coatings on the Surface of Track-Etched Membranes from an Active Gas Phase, <i>Membranes and Membrane Technologies</i> , 2022, 4(2), 133-143
14.	Cherkashina N.I., Pavlenko V.I., Noskov A.V., Sidelnikov R.V., Klopov E.P., Gamma radiation attenuation characteristics of composites based on polyimide track membranes filled with nanodispersed Pb, <i>Progress in Nuclear Energy</i> , 2021, 141, 103959
15.	Kravets L.I., Yarmolenko M.A., Gainutdinov R.V., Mitu B., Dinescu G., Formation of hydrophobic polymer coatings on the track-etched membrane surface, <i>journal of Physics Conference Series</i> , 2021, 1954(1), 012022

16.	Zemtsova A.V., Sokolova N.B., Photostabilization Effect of Pyrazolone Azo Dyes on IR Absorbers in Polymer Films, <i>Russian Journal of Applied Chemistry</i> , 2021, 94(5), 633-638
17.	Palla-Papavlu A., Voicu S.i., Dinescu M., Sensitive materials and coating technologies for surface acoustic wave sensors, <i>Chemosensors</i> , 2021, 9(5), 105
18.	Oprea, M., Voicu, S.I., Recent advances in applications of cellulose derivatives-based composite membranes with hydroxyapatite, 2020, <i>Materials</i> , 13 (11), art. no. 2481
19.	Kravets L., Altynov V., gainutdinov R., Mitu R., Dinescu G., HYDROPHOBIZATION OF TRACK MEMBRANE SURFACE BY MAGNETRON SPUTTER DEPOSITION OF ULTRA-HIGH MOLECULAR WEIGHT POLYETHYLENE, <i>Plasma Physics and Technology</i> , 2020, 7(1), 10-15
20.	Satulu, V., Mitu, B., Ion, V., Marascu, V., Matei, E., Stancu, C., Dinescu, G., Combining fluorinated polymers with ag nanoparticles as a route to enhance optical properties of composite materials, 2020, <i>Polymers</i> , 12 (8), art. no. 1640
21.	Rădulescu, I.R., SURDU, L., MITU, B., MORARI, C., COSTEA, M., GOLOVANOV, N., Conductive textile structures and their contribution to electromagnetic shielding effectiveness, 2020, <i>IndustriaTextila</i> , 71 (5), pp. 432-437
22.	Oprea, M., Voicu, S.I., Recent advances in applications of cellulose derivatives-based composite membranes with hydroxyapatite, 2020, <i>Materials</i> , 13 (11), art. no. 2481
23.	Muhulet, A., Tuncel, C., Miculescu, F., Pandele, A.M., Bobirica, C., Orbeci, C., Bobirica, L., Palla-Papavlu, A., Voicu, S.I., Synthesis and characterization of polysulfone–TiO <sub>2</sub> decorated MWCNT composite membranes by sonochemical method (2020) <i>Applied Physics A: Materials Science and Processing</i> , 126 (3), art. no. 233
<b>AM. Pandele, C. Andronescu, A. Ghebaour, SA Garea, H. Iovu, New biocompatible mesoporous silica/polysaccharide hybrid materials as possible drug delivery systems, <i>Materials</i>, 12 (2019), 15, 10.3390/ma12010015</b>	
1.	Montiel-Centeno K., Barrera D., Garcia-Villen F., Viseras C., Sapag K., Ordered mesoporous silica and carbon as controlled release systems for cephalexin: Influence of surface modification and porosity, <i>Surfaces and Interfaces</i> , 2025, 56, 105576
2.	Singha Deb A.K., Jha M., Ali S.M., Indirect electrochemical oxidation of methylene blue dye using a mixed metal oxide electrode: study of process parameters, kinetics and mechanistic path of the degradation, <i>Indian Chemical Engineer</i> , 2025
3.	Singh H., Darban Z., Nasser A.A., Esfandyari-Manesh M., Hassan S., Characterization techniques for advanced research, <i>Mesoporous Silica Nanoparticles drug delivery Catalysis and Sensing Applications</i> , 2024, 243-272
4.	Ozdil Sener S., samatya Yilmaz S., Doganci M.D., Uzuner H., Doganci E., Ultra-thin benzalkonium chloride-doped poly(lactic acid) electrospun mat, <i>polymer Engineering and Science</i> , 2024, 64(10), 5120-5135
5.	Shalaby E.S., Shalay S.I., AbouTaleb S., Cyclodextrin nano-organogels as a delivery vehicle for peppermint essential oil to enhance its physico-chemical properties and skin photoprotective performance, <i>Journal of Dispersion Science and technology</i> , 2024
6.	Fazal T., Murtaza B.N., Shah M., Awwad N.S., Ibrahim H.A., Recent developments in natural biopolymer based drug delivery systems, <i>RSC Advances</i> , 2023, 13(33), 23087-23121
7.	Wagdi M.A., Salama A., El-Lieth M.A., Shalaby E.S., Comparative study of niosomes and spanlastics as a promising approach for enhancing benzalkonium chloride topical wound healing: In-vitro and in-vivo studies, <i>Journal of Drug delivery Science and Technology</i> , 2023, 84, 104456
8.	Mocanu A.C., Miculescu F., Dascalu C.A., Mitran V., Cocan L.T., Influence of Ceramic Particles Size and Ratio on Surface—Volume Features of the Naturally Derived HA-Reinforced Filaments for Biomedical Applications, <i>journal of Functional Biomaterials</i> , 2022, 13(4), 199
9.	Li Z., Guo J., Qi G., Zhang M., Hao L., pH-Responsive Drug Delivery and Imaging Study of Hybrid Mesoporous Silica Nanoparticles, <i>Molecules</i> , 2022, 27(19), 6519
10.	Alfawaz A., Alzahrani K., Niazy A., Alotaibi K., Alswieleh A., Smart Nanocarrier Based on Poly(oligo(ethylene glycol) methyl ether acrylate) Terminated pH-Responsive Polymer Brushes Grafted Mesoporous Silica Nanoparticles, <i>Applied Sciences Switzerland</i> , 2022, 12(7), 3688
11.	Peng s., Zhang F., Huang B., Wang J., Zhang L., Mesoporous Silica Nanoprodrug Encapsulated with Near-Infrared Absorption Dye for Photothermal Therapy Combined with Chemotherapy, <i>ACS Applied Bio Materials</i> , 2021, 4(12), 8225-8235
12.	Li W., Qamar S.A., Qamar M., Bilal M., Iqbal H.M.N., Carrageenan-based nano-hybrid materials for the mitigation of hazardous environmental pollutants, <i>International Journal of Biological Macromolecules</i> , 2021, 190, 700-712
13.	Sudagidan M., Yildiz G., Onen S., Dursun A.D., Ozalp V.C., Targeted mesoporous silica nanoparticles for improved inhibition of disinfectant resistant <i>Listeria monocytogenes</i> and lower environmental pollution, <i>journal of Hazardous Materials</i> , 2021, 418, 126364
14.	Zhan, Y., Wang, H., Su, M., Sun, Z., Zhang, Y., He, P., Mesoporous silica and polymer hybrid nanogels for multistage delivery of an anticancer drug, (2021) <i>Journal of Materials Science</i> , 56 (7), pp. 4830-4842

15.	Alotaibi, K.M., Almethen, A.A., Beagan, A.M., Alfheid, L.H., Ahamed, M., El-Toni, A.M., Alswieleh, A.M., Poly(Oligo(ethylene glycol) methyl ether methacrylate) capped ph-responsive poly(2-(diethylamino)ethyl methacrylate) brushes grafted on mesoporous silica nanoparticles as nanocarrier(2021) <i>Polymers</i> , 13 (5), art. no. 823
16.	Angeova T., uzunova V., Rangelova N., Monchilova A., Tzoneva R., <i>BIOCOMPATIBILITY AND ANTIFUNGAL ACTIVITY OF SILVER DOPED SiO<sub>2</sub>/PECTIN COMPOSITE MATERIALS</i> , <i>Journal of Chemical Technology and Metallurgy</i> , 2021, 56(5), 938-944
17.	Layek B., <i>Functionalized biopolymer-based drug delivery systems: Current status and future perspectives</i> , <i>Tailor Made and functionalized Biopolymer Systems for Drug delivery and Biomedical Applications</i> , 2021, 723-746
18.	Purohit D., Manchanda D., Makhija M., Kaushik D., Pandey P., <i>An overview of the recent developments and patents in the field of pharmaceutical nanotechnology</i> , <i>Recent Patents on Nanotechnology</i> , 2021, 15(1), 15-34
19.	Saha S., Roy P., Chakraborty J., <i>Mesoporous silica-biopolymer-based systems in drug delivery applications</i> , <i>Tailor Made and functionalized Biopolymer Systems for Drug delivery and Biomedical Applications</i> , 2021, 313-347
20.	Wu, Z., Lim, H.K., Tan, S.J., Gautam, A., Hou, H.W., Ng, K.W., Tan, N.S., Tay, C.Y., <i>Potent-By-Design: Amino Acids Mimicking Porous Nanotherapeutics with Intrinsic Anticancer Targeting Properties</i> , 2020, <i>Small</i> , 16 (34), art. no. 2003757
21.	Spepi, A., Pizzimenti, S., Duce, C., Vozzi, G., De Maria, C., Tiné, M.R., <i>Chemico-physical characterization and evaluation of coating properties of two commercial organosilicons: Hydrophase® and Disboxan 450®</i> (2019) <i>Journal of Thermal Analysis and Calorimetry</i> , 138 (5), pp. 3277-3285
22.	Mocanu, A.-C., Stan, G.E., Maidaniuc, A., Miculescu, M., Antoniac, I.V., Ciocoiu, R.-C., Voicu, Ş.I., Mitran, V., Cîmpean, A., Miculescu, F, <i>Naturally-derived biphasic calcium phosphates through increased phosphorus-based reagent amounts for biomedical applications</i> (2019) <i>Materials</i> , 12 (3), art. no. 381
<b>A.M. Pandele, F.E. Comanici, C.A. Carp, F. Miculescu, S.I. Voicu, V.K. Thakur, B.C. Serban, Synthesis and characterization of cellulose acetate-hydroxyapatite micro and nano composites membranes for water purification and biomedical applications, <i>Vacuum</i>, 2017, 146, 599-605, 10.1016/j.vacuum.2017.05.008</b>	
1.	Zhang Y., Xue F., Du Y., Dong Z., Ou L., <i>HIV Removal by MOF-Based Microspheres: A Potential Adsorbent for Hemoadsorption</i> , <i>ACS Biomaterials Science and Engineering</i> , 2025, 11(9), 5650-5660
2.	Sayadi S., Brouillette F., <i>Magnetic phosphorylated lignocellulosic fibers: A hybrid material for water purification – Part I material synthesis</i> , <i>Colloids and Surfaces A Physicochemical and Engineering Aspects</i> , 2025, 718, 136923
3.	Sharma K., Choudhary P., Majeed A., Rana A.K., Rajauria G., <i>Cellulose based membranes, hydrogels and aerogels for water treatment application</i> , <i>Industrial Crops and Products</i> , 2025, 225, 120474
4.	Satulu V., Kravets L.I., Orelovich O.L., Mitu B., Dinescu G., <i>High-Performance PET-TM/PTFE-like Composite Membranes for Efficient Salt Rejection via Air Gap Membrane Distillation</i> , <i>Polymers</i> , 2025, 17(3), 290
5.	Ali A.E., Elwardany r.E., Mustafa A.A., Shokry H., <i>Remediation of contaminated water using cellulose acetate membrane hybrid by sunflower seed shell–activated carbon</i> , <i>Biomass Conversion and Biorefinery</i> , 2025, 15(4), 5701-5717
6.	Karthuk P., Rajesh J., Ravichandran S., <i>Comprehensive review on the advancement of transition metal oxides infused cellulose acetate nanocomposites for the photocatalytic degradation of emerging pollutants</i> , <i>Journal of Water Process Engineering</i> , 2024, 66, 106010
7.	Rajabzadeh K., Sardarian A.R., <i>Well-defined nanomagnetic nitrilotriacetic acid complex of Cu(ii) supported on silica-coated nanosized magnetite: a new highly efficient and magnetically separable catalyst for C-N bond formation</i> , <i>Journal of Applied Polymer Science</i> , 2024, 141(15), e55206
8.	Mysore T.H.M., Patil A.Y., Hegde C., Soudagar M.E.M., Fattah I.M.R., <i>Apatite insights: From synthesis to biomedical applications</i> , <i>European Polymer Journal</i> , 2024, 209, 112842
9.	Rana A.K., Gupta V.K., Hart P., Scarpa F., Thakur V.K., <i>Sustainable MXene-chitosan/chitin composites for Interdisciplinary applications in water purification, bio-medical, bio-sensing and electronic fields</i> , <i>Materials Today Sustainability</i> , 2024, 25, 100671
10.	Rana A.K., Gupta V.K., Hart P., Thakur V.K., <i>Cellulose-alginate hydrogels and their nanocomposites for water remediation and biomedical applications</i> , <i>Environmental Research</i> , 2024, 243, 117889
11.	Begum S.A., Krishnan P.S.G., Kanny K., <i>Properties of poly (lactic Acid)/ hydroxyapatite biocomposites for 3D printing feedstock material</i> , <i>journal of Thermoplastic Composite Materials</i> , 2024, 37(2), 644-668
12.	Riseh R.S., Vazvani M.G., Hassanisaadi M., Thakur V.K., <i>Agricultural wastes: A practical and potential source for the isolation and preparation of cellulose and application in agriculture and different industries</i> , <i>Industrial Crops and Products</i> , 2024, 208, 117904

13.	Dorsainvil J.S., Brown M.S., Rafiee Z., Choi S., Koh A., Cellulosic Nanofibers Utilizing a Silicone Elastomeric Core to Form Stretchable Paper, <i>Advanced Materials Interfaces</i> , 2024, 11(1), 2300487
14.	Liu L., Xu Y.L., Liu J.X., Wang S., Zhu Q.X., Preparation and characterization of high flux cellulose acetate/hydroxyapatite composite ultrafiltration membranes for water treatment, <i>Desalination and Water Treatment</i> , 2024, 317, 100309
15.	Dong R., Zuo W., Zhang J., Dong R., Lyu L., Preparation of oridonin & Astragalus polysaccharides-silk fibroin-methyl cellulose composite wound dressing and its promotion of skin wound healing, <i>Chinese Traditional and Herbal Drugs</i> , 2024, 55(2), 409-419
16.	Dhongade S.P., Malkapuram S.T., Sonawane S.H., Seepana M.M., Silicon dioxide incorporated cellulose acetate-mixed matrix membranes for Safranin-O removal from aqueous solutions, <i>Environmental Science and Pollution Research</i> , 2024,
17.	Saurav S., Sharma P., Kumar A., Mamidi N., Mohan A., Harnessing Natural Polymers for Nano-Scaffolds in Bone Tissue Engineering: A Comprehensive Overview of Bone Disease Treatment, <i>Current Issues in Molecular Biology</i> , 2024, 46(1), 585-611
18.	Sharma R., Nath P.C., Mohanta Y.K., Nayak P.J., Sridhar K., Recent advances in cellulose-based sustainable materials for wastewater treatment: An overview, <i>International Journal of Biological Macromolecules</i> , 2024, 256, 128517
19.	Edwardany R.E., Shokry H., Mustafa A.A., Ali A.E., Influence of the prepared activated carbon on cellulose acetate for malachite green dye removal from aqueous solution, <i>Macromolecules Research</i> , 2023, 31(11), 1043-1060
20.	Voicu S.I., Thakur V.K., Green polymers-based membranes for water reuse in a circular economy context, <i>Current Opinion in Green and Sustainable Chemistry</i> , 2023, 43, 100852
21.	Islam M.D., Uddin F.J., Rashid T.U., Shahruzzaman M., Cellulose acetate-based membrane for wastewater treatment—A state-of-the-art review, <i>Materials Advances</i> , 2023, 4(18), 4054-4102
22.	Kumar S., Shandilya M., Uniyal P., Thakur S., Parihar N., Efficacy of polymeric nanofibrous membranes for proficient wastewater treatment, <i>Polymer Bulletin</i> , 2023, 80(7), 7145-7200
23.	Shokri E., Khanghahi B., Effati E., Fabrication and characterizations of degradable PVC/PLA-HAP ultrafiltration membrane with enhanced antifouling properties, <i>Journal of Applied Polymer Science</i> , 2023, 140(17), e53767
24.	Al-Harbi N., Hussein M.A., Al-Hadeethi Y., Bekyarova E., Chen M., Bioactive hybrid membrane-based cellulose acetate/bioactive glass/hydroxyapatite/carbon nanotubes nanocomposite for dental applications, <i>Journal of the Mechanical Behavior, Journal of the Mechanical behavior of Biomedical Materials</i> , 2023, 141, 105795
25.	Oprea M., Voicu S.I., Cellulose Acetate-Based Materials for Water Treatment in the Context of Circular Economy, <i>Water Switzerland</i> , 2023, 15(10), 1860
26.	Ahmad S., Siddiqi W.A., Ahmad S., Sustainable nanocomposite porous absorbent and membrane sieves: Definition, classification, history, properties, synthesis, applications, and future prospects, <i>Journal of Environmental Chemical Engineering</i> , 2023, 11(2), 109367
27.	Evy E. Rostika N.A., Yusi D., Tati H., Haryono, Preparation and Characterization of Cellulose Acetate-Hydroxyapatite (CA-HA) Composite Membrane for Ultrafiltration Process, <i>Research Journal of Chemistry and Environment</i> , 2023, 27(3), 81-85
28.	Celuppi L.C.M., Capelezzo A.P., Cima L.B., Fiori M.A., Riella H.G., Microbiological, thermal and mechanical performance of cellulose acetate films with geranyl acetate, <i>International Journal of Biological Macromolecules</i> , 2023, 228, 517-527
29.	Cherifi Z., Zaoui A., Boukoussa B., Chebout R., Bachari K., Ultrasound-promoted preparation of cellulose acetate/organophilic clay bio-nanocomposites films by solvent casting method, <i>Polymer Bulletin</i> , 2023, 80(2), 1813-1843
30.	Fatima Z., Afzal A., Arshad S., Tailoring Zeolite-Composite (ZC) Impregnated Thermally Endured Nonporous Cellulose Acetate Membranes for Potential Gas Separation and Antibacterial Performances, <i>Journal of Nano Research</i> , 2023, 78, 43-58
31.	Dogra S., Rana A.K., Removal of Methylene Blue Dye from Wastewater Using Polydopamine Agave Americana Fibres-co-Poly(AAc)/Ag Nanocomposites, <i>Textile and Leather review</i> , 2023, 6, 760-780
32.	Jamaluddin N.S., Alias N.H., Jaafar J., Lau W.J., Abd Aziz M.H., Exploring Potential of Adsorptive-Photocatalytic Molybdenum Disulphide/Polyacrylonitrile (MoS <sub>2</sub> /PAN) Nanofiber Coated Cellulose Acetate (CA) Membranes for Treatment of Wastewater, <i>Journal of Polymers and the Environment</i> , 2022, 30(12), 5290-5300
33.	Salama A., Kamel B.M., Osman T.A., Rashad R.M., Investigation of mechanical properties of UHMWPE composites reinforced with HAP+TiO <sub>2</sub> fabricated by solvent dispersing technique, <i>Journal of Materials Research and Technology</i> , 2022, 21, 4330-4343

34.	Arokiasamy P., Al Bakri Abdullah M.M., Abd Rahim S.Z., Jamil N.H., Nabialek M., Synthesis methods of hydroxyapatite from natural sources: A review, <i>Ceramic International</i> , 2022, 48(11), 14959-14979
35.	Shokri E., Ehanghahi B., Esmizadeh E., Etemadi H., Biopolymer-based adsorptive membrane for simultaneous removal of cationic and anionic heavy metals from water, <i>International Journal of Environmental Science and Technology</i> , 2022, 19(5), 4167-4180
36.	Gao F., Zeng D., Liu H., Wang H., Peng S., Porous cellulose microspheres coated in one step with a polydopamine suspension of hydroxyapatite for bone tissue engineering, <i>Cellulose</i> , 29(3), 1955-1967, 2022
37.	Khan T., Shaikh J., Nanoparticle Decoration of Nanocellulose for Improved Performance, <i>Handbook of Nanocelluloses Classification Properties Fabrication and Emerging Applications</i> , 2022, 377-405
38.	Khairnar Y., Hansora D., Hazra C., Naik J., Chatterjee A., Cellulose bionanocomposites for sustainable planet and people: A global snapshot of preparation, properties, and applications, <i>Carbohydrate Polymer Technologies and Applications</i> , 2021, 2, 100065
39.	Rana A.K., Mishra Y.K., Gupta V.K., Thakur V.K., Sustainable materials in the removal of pesticides from contaminated water: Perspective on macro to nanoscale cellulose, <i>Science of the Total Environment</i> , 2021, 797, 149129
40.	Wibisono Y., Pratiwi A.Y., Octaviani C.A., Anugroho E., Rochman N.T., Marine-derived biowaste conversion into bioceramic membrane materials: Contrasting of hydroxyapatite synthesis methods, <i>Molecules</i> , 2021, 26(21), 6344
41.	Sivasankari S., Kalaivizhi R., Gowriboy N., Ganesh M.R., Shazia Anujm M., Hydroxyapatite integrated with cellulose acetate/polyetherimide composite membrane for biomedical applications, <i>Polymer Composites</i> , 2021, 42(10), 5512-5526
42.	Maia M.T., De Brito Soares A.L., Caetano M.A., Rodriguez-Castellon E., Vieira R.S., Biomimetic strontium substituted calcium phosphate coating for bone regeneration, <i>Coatings</i> , 2021, 11(8), 908
43.	Gupta A., Dhakate S.R., Cellulose acetate-based nanofibers: Synthesis, manufacturing, and applications, <i>Emerging Technologies for Nanoparticle Manufacturing</i> , 2021, 203-236
44.	Alzahrani E., Shaltout A.A., Ahmed S.I., Heiba Z.K., Wahba H.H., Hydrothermal Synthesis, Anionic Dyes Preconcentration, and Energy Storage of Amino-Functionalized CuNPs Regenerated Chitosan Membrane, <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31(6), 2492-2500
45.	Chen, M., Li, J., Zhang, J., Ma, Y., Dong, H., Li, W., Bekyarova, E., Al-Hadeethi, Y.F., Chen, L., Hedhili, M.N., Tian, B., Zhang, X., Evolution of cellulose acetate to monolayer graphene(2021) <i>Carbon</i> , 174, pp. 24-35
46.	Vatanpour, V., Faghani, S., Keyikoglu, R., Khataee, A., Enhancing the permeability and antifouling properties of cellulose acetate ultrafiltration membrane by incorporation of ZnO@graphitic carbon nitride nanocomposite(2021) <i>Carbohydrate Polymers</i> , 256, art. no. 117413
47.	Oprea, M., Voicu, S.I., Cellulose composites with graphene for tissue engineering applications,2020, <i>Materials</i> , 13 (23), art. no. 5347, pp. 1-24
48.	Alhalaili, B., Popescu, I.N., Kamoun, O., Alzubi, F., Alawadhia, S., Vidu, R., Nanobiosensors for the detection of novel coronavirus 2019-ncov and other pandemic/epidemic respiratory viruses: A review, 2020, <i>Sensors (Switzerland)</i> , 20 (22), art. No. 6591, pp. 1-45
49.	Noviyanti A.R., Setiawan H., Ernawati E.E., Haryono Risdiana, Mechanical properties of hydroxyapatite/la prepared by a solid chemical reaction method, <i>Materials Science Forum</i> , 2021, 1028 MSF, 352-358
50.	Oprea, M., Voicu, S.I., Recent advances in composites based on cellulose derivatives for biomedical applications, 2020, <i>Carbohydrate Polymers</i> , 247, art. no. 116683
51.	Hu, Q., Cao, H., An, X., Liu, J., Ma, M., Fan, C., Zhu, Q., Lai, M., Liu, H., Progress in Synthesis of Hydroxyapatite Nanoparticles (HAP NPs) and the Applications of Their Composites Materials [羟基磷灰石纳米颗粒的合成及其复合材料的应用研究进展],2020, <i>Chung-kuo Tsao Chih/China Pulp and Paper</i> , 39 (10), pp. 72-81
52.	Lee, J.H., Kim, H.-S., Yun, E.-T., Ham, S.-Y., Park, J.-H., Ahn, C.H., Lee, S.H., Park, H.-D.,Vertically aligned carbon nanotube membranes: Water purification and beyond, 2020, <i>Membranes</i> , 10 (10), art. no. 273, pp. 1-31
53.	Ates, B., Koytepe, S., Ulu, A., Gurses, C., Thakur, V.K., Chemistry, structures, and advanced applications of nanocomposites from biorenewable resources,2020, <i>Chemical Reviews</i> , 120 (17), pp. 9304-9362
54.	Serbanescu, O.S., Voicu, S.I., Thakur, V.K., Polysulfone functionalized membranes: Properties and challenges, 2020, <i>Materials Today Chemistry</i> , 17, art. no. 100302
55.	Oprea, M., Voicu, S.I., Recent advances in applications of cellulose derivatives-based composite membranes with hydroxyapatite, 2020, <i>Materials</i> , 13 (11), art. no. 2481
56.	Mansoori, S., Davarnejad, R., Matsuura, T., Ismail, A.F., Membranes based on non-synthetic (natural) polymers for wastewater treatment,2020, <i>Polymer Testing</i> , 84, art. no. 106381
57.	Alzahrani, E., Shaltout, A.A., Ahmed, S.I., Heiba, Z.K., Wahba, H.H., Hydrothermal Synthesis, Anionic Dyes Preconcentration, and Energy Storage of Amino-Functionalized CuNPs Regenerated Chitosan Membrane,2020, <i>Journal of Inorganic and Organometallic Polymers and Materials</i>

58	Lopresti, F., Carfi Pavia, F., Vitrano, I., Kersaudy-Kerhoas, M., Brucato, V., La Carrubba, V., Effect of hydroxyapatite concentration and size on morpho-mechanical properties of PLA-based randomly oriented and aligned electrospun nanofibrous mats, 2020, <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 101, art. no. 103449
59.	Filimon, A., Dobos, A.M., Musteata, V., New perspectives on development of polysulfones/cellulose derivatives based ionic-exchange membranes: Dielectric response and hemocompatibility study, (2019) <i>Carbohydrate Polymers</i> , 226, art. no. 115300
60.	Kalantari, E., Naghib, S.M., Irvani, N.J., Esmaeili, R., Naimi-Jamal, M.R., Mozafari, M., Biocomposites based on hydroxyapatite matrix reinforced with nanostructured monticellite (CaMgSiO <sub>4</sub> ) for biomedical application: Synthesis, characterization, and biological studies (2019) <i>Materials Science and Engineering C</i> , 105, art. no. 109912
61.	Kordnezhadian, R., Shekouhy, M., Karimian, S., Khalafi-Nezhad, A., DBU-functionalized MCM-41-coated nanosized hematite (DBU-F-MCM-41-CNSH): A new magnetically separable basic nanocatalyst for the synthesis of some nucleoside-containing heterocycles(2019) <i>Journal of Catalysis</i> , 380, pp. 91-107
62.	Domínguez-Robles, J., Stewart, S.A., Rendl, A., González, Z., Donnelly, R.F., Larrañeta, E., Lignin and cellulose blends as pharmaceutical excipient for tablet manufacturing via direct compression, (2019) <i>Biomolecules</i> , 9 (9), art. no. 423
63.	De Lima, G.G., Elter, J.K., Chee, B.S., Magalhães, W.L.E., Devine, D.M., Nugent, M.J.D., De Sá, M.J.C, A tough and novel dual-response PAA/P(NiPAAM-co-PEGDMA) IPN hydrogels with ceramics by photopolymerization for consolidation of bone fragments following fracture, (2019) <i>Biomedical Materials (Bristol)</i> , 14 (5), art. no. 054101
64.	Liang An, Zhao, X., Xu, C., Yan, Z., Yang, Z., Xu, Z., Magnetically Separable and Recyclable $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> /HAp/Ag <sub>3</sub> PO <sub>4</sub> Composite Microsheets: Fabrication, Characterization, and Photocatalytic Performance, (2019) <i>Russian Journal of Physical Chemistry A</i> , 93 (7), pp. 1343-1348
65.	Narayanan, V., Sumathi, S., Preparation, characterization and in vitro biological study of silk fiber/methylcellulose composite for bone tissue engineering applications, (2019) <i>Polymer Bulletin</i> , 76 (6), pp. 2777-2800
66.	Wróblewska-Krepsztul, J., Rydzkowski, T., Michalska-Požoga, I., Thakur, V.K., Biopolymers for biomedical and pharmaceutical applications: Recent advances and overview of alginate electrospinning, (2019) <i>Nanomaterials</i> , 9 (3), art. no. 404
67.	Gorgieva, S., Hribernik, S. Microstructured and degradable bacterial cellulose–gelatin composite membranes: Mineralization aspects and biomedical relevance (2019) <i>Nanomaterials</i> , 9 (2), art. no. 303,.
68.	Mocanu, A.-C., Stan, G.E., Maidaniuc, A., Miculescu, M., Antoniac, I.V., Ciocoiu, R.-C., Voicu, Ș.I., Mitran, V., Cîmpean, A., Miculescu, F., Naturally-derived biphasic calcium phosphates through increased phosphorus-based reagent amounts for biomedical applications, (2019) <i>Materials</i> , 12 (3), art. no. 381
69.	Zhang, S., Yang, H., Study on the lifetime of catalyst in catalytic combustion furnace of natural gas and applications of heating pottery (2019) <i>Frontiers in Heat and Mass Transfer</i> , 12, .
70.	Hirose, D., Wardhana Kusuma, S.B., Nomura, S., Yamaguchi, M., Yasaka, Y., Kakuchi, R., Takahashi, K. Effect of anion in carboxylate-based ionic liquids on catalytic activity of transesterification with vinyl esters and the solubility of cellulose (2019) <i>RSC Advances</i> , 9 (7), pp. 4048-4053.
71.	Lu, Y., Dong, W., Ding, J., Wang, W., Wang, A., Hydroxyapatite nanomaterials: Synthesis, properties, and functional applications, (2019) <i>Nanomaterials from Clay Minerals: A New Approach to Green Functional Materials</i> , pp. 485-536
72.	Filimon, A., Stoica, I., Onofrei, M.D., Barga, A., Dunca, S. Quaternized polysulfones-based blends: Surface properties and performance in life quality and environmental applications (2018) <i>Polymer Testing</i> , 71, pp. 285-295.
73.	Liu, B., Li, M., Tian, B., Yang, X., Yang, J. A positive pressure-driven PDMS pump for fluid handling in microfluidic chips (2018) <i>Microfluidics and Nanofluidics</i> , 22 (9), art. no. 94, .
74.	Narayanan, V., Sumathi, S. Preparation, characterization and in vitro biological study of silk fiber/methylcellulose composite for bone tissue engineering applications (2018) <i>Polymer Bulletin</i> , . Article in Press.
75.	He, X., He, Z., Li, Y., Yu, H., Zhang, L., Ge, H., Man, S., Dai, Y. Modeling of the bacterial inactivation kinetics of dialdehyde cellulose in aqueous suspension (2018) <i>International Journal of Biological Macromolecules</i> , 116, pp. 920-926.
76	Kaur, H., Bulasara, V.K., Gupta, R.K. Influence of pH and temperature of dip-coating solution on the properties of cellulose acetate-ceramic composite membrane for ultrafiltration (2018) <i>Carbohydrate Polymers</i> , 195, pp. 613-621.
77.	Wang, J., Gong, X., Hai, J., Li, T. Synthesis of silver–hydroxyapatite composite with improved antibacterial properties (2018) <i>Vacuum</i> , 152, pp. 132-137.
78.	Lazić, V., Smičiklas, I., Marković, J., Lončarević, D., Dostanić, J., Ahrenkiel, S.P., Nedeljković, J.M. Antibacterial ability of supported silver nanoparticles by functionalized hydroxyapatite with 5-aminosalicylic acid (2018) <i>Vacuum</i> , 148, pp. 62-68.
79.	Miculescu, F., Maidaniuc, A., Voicu, S.I., Thakur, V.K., Stan, G.E., Ciocan, L.T., Progress in Hydroxyapatite-Starch Based Sustainable Biomaterials for Biomedical Bone Substitution Applications(2017) <i>ACS Sustainable Chemistry and Engineering</i> , 5 (10), pp. 8491-8512

**M. Ionita, L.E. Crica, S.I. Voicu, A.M. Pandele, H. Iovu, Fabrication of Cellulose Triacetate/Graphene Oxide Porous Membrane, *Polymers for Advanced Technologies*, 2016, 27(3), 350-357**

1.	Zeesan M.H., Yeong Y.F., Chew T.L., Mixed matrix membrane encompassing of cellulose triacetate and ZIF-90 for CO <sub>2</sub> separation from CH <sub>4</sub> and N <sub>2</sub> , <i>Polymer Engineering and Science</i> , 2025, 65(6), 3334-3345
2.	Mendez-Valdivia G.K., Ballinas-Casarrubias M.D.L., Gonzales-Sanchez G., Miramontes-Escobar H.A., Ortiz-basurto R.I., Effect of Ultrasound on Dissolution of Polymeric Blends and Phase Inversion in Flat Sheet and Hollow Fiber Membranes for Ultrafiltration Applications, <i>Membranes</i> , 2025, 15(4), 120
3.	An Y., Li F., Wang H., Liu M., Fei P., Preparation and properties of cellulose triacetate (CTA)-PVDF composite membrane with hydrophobic/hydrophilic properties for membrane distillation, <i>Applied Surface Science</i> , 2025, 684, 161891
4.	Ji C., Wang J., Sun J., An Y., Preparation, Regulation and Application of Micro / Nano-porous Polymer Based Radiative Cooling Materials, <i>Cailiao Daobao Materials Reports</i> , 2023, 37(24), 22060240
5.	Abdel-Naby A, Alabdullatif B.A., Aldulajjan S., Algarni Y., Synthesis and characterization of p-carboxy phenyl amino maleimide-g-cellulose acetate/ZrO <sub>2</sub> nanocomposite membrane for water desalination, <i>water Reuse</i> , 2023, 13(3), 345-368
6.	Afzal A., Shahid F., Rafique M., Nazir I., Manganese spinel ferrites-composite nanotubes impregnated thermally endured cellulose acetate membranes for superior desalination application, <i>Asia Pacific Journal of Chemical Engineering</i> , 2023, 18(4), e2914
7.	Oprea M., Voicu S.I., Cellulose Acetate-Based Materials for Water Treatment in the Context of Circular Economy, <i>Water Switzerland</i> , 2023, 15(10), 1860
8.	Voicu S.I, Thakur V.K., Graphene-based composite membranes for nanofiltration: performances and future perspectives, <i>Emergent Materials</i> , 2022, 5(5), 1429-1441
9.	Hosseini S.M., Banijamali M.S., Farahani S.K., Bandehali S., Enhancing antifouling and separation characteristics of carbon nanofiber embedded poly ether sulfone nanofiltration membrane, <i>Korean Journal of Chemical Engineering</i> , 2022, 39(9), 2491-2498
10.	Chiulan I., Voicu S.I., Batalu D., The Use of Graphene and Its Derivatives for the Development of Polymer Matrix Composites by Stereolithographic 3D Printing, <i>Applied Sciences Switzerland</i> , 2022, 12(7), 3521
11.	Madih K., El Shazly A.H., Elkady M.F., Youssef M.E., Khalifa R.E., A facile synthesis of cellulose acetate reinforced graphene oxide nanosheets as proton exchange membranes for fuel cell applications, <i>Journal of Saudi Chemical Society</i> , 2022, 26(2), 101435
12.	Kumar A., Kumar R., Misra N., Tripathi J.K., Srivastava A.K., Electronic structures and properties of small (BCN) <sub>x</sub> (x = 1–5) clusters and (BCN) 12 nanotube, <i>Pramana Journal of Physics</i> , 2022, 96(1), 12
13.	Suwaileh W., Zargar M., Abdala A., Khiadani M., Abdel-Wahab A., Concentration polarization control in stand-alone and hybrid forward osmosis systems: Recent technological advancements and future directions, <i>Chemical Engineering Research and design</i> , 2022, 178, 199-223
14.	Alzahrani E., Shaltout A.A., Ahmed S.i., Heiba Z.K., Wahba H.H., Hydrothermal Synthesis, Anionic Dyes Preconcentration, and Energy Storage of Amino-Functionalized CuNPs Regenerated Chitosan Membrane, <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31(6), 2492-2500
15.	Palla-Papavlu A, Voicu S.I., Dinescu M., Sensitive materials and coating technologies for surface acoustic wave sensors, <i>Chemosensors</i> , 20121, 9(5), 15
16.	Ahmed D.F., Isawi H., Badway N.A., Elbayaa A.A., Shawky H., Graphene oxide incorporated cellulose triacetate/cellulose acetate nanocomposite membranes for forward osmosis desalination, <i>Arabian Journal of Chemistry</i> , 2021, 14(3), 102995
17.	Mocanu A.C., Miculescu F., Stan G.E., Miculescu M., Ciocan L.T., Preliminary studies on graphene-reinforced 3d products obtained by the one-stage sacrificial template method for bone reconstruction applications, <i>Journal of Functional Biomaterials</i> , 2021, 12(1), 13
18.	Lungu A., Cernencu A.I., Vlasceanu G.M., Ionita M., Iovu H., 3D POSS cages decorated 2D graphenic sheets: A versatile platform for silicon-carbonaceous nano-additives design, <i>Composites Part B Engineering</i> , 2021, 207, 108578
19.	Oprea, M., Voicu, S.I., Cellulose composites with graphene for tissue engineering applications, 2020, <i>Materials</i> , 13 (23), art. no. 5347, pp. 1-24
20.	Wei, L., Song, J., Cheng, B., Yang, Z., Synthesis, characterization and antibacterial properties of novel cellulose acetate sorbate, 2020, <i>Carbohydrate Polymers</i> , 243, art. no. 11641

21.	Serbanescu, O.S., Voicu, S.I., Thakur, V.K., Polysulfone functionalized membranes: Properties and challenges, 2020, <i>Materials Today Chemistry</i> , 17, art. no. 100302
22.	Alzahrani, E., Shaltout, A.A., Ahmed, S.I., Heiba, Z.K., Wahba, H.H., Hydrothermal Synthesis, Anionic Dyes Preconcentration, and Energy Storage of Amino-Functionalized CuNPs Regenerated Chitosan Membrane, 2020, <i>Journal of Inorganic and Organometallic Polymers and Materials</i>
23.	Mocanu, A.-C., Miculescu, M., Ciocoiu, R.-C., Butte, T.-M., Biță, A.-I., Milea, C.-G., Antoniac, A., Vasilescu, M., Trante, O., Pop, C., Ciocan, L.-T., Comparative framework of calcium phosphates-based products derived from sustainable marine and terrestrial resources for biomedical applications, 2020, <i>Studia Universitatis Babeș-BolyaiChemia</i> , 65 (4), pp. 73-84
24.	Correa, E., Moncada, M.E., Gutiérrez, O.D., Vargas, C.A., Zapata, V.H., Characterization of polycaprolactone/rGO nanocomposite scaffolds obtained by electrospinning, (2019) <i>Materials Science and Engineering C</i> , 103, art. no. 109773
25.	Zhang, H., Dou, C., Pal, L., Hubbe, M.A., Review of electrically conductive composites and films containing cellulosic fibers or nanocellulose, (2019) <i>BioResources</i> , 14 (3), pp. 7494-7542
26.	Ghaseminezhad, S.M., Barikani, M., Salehirad, M., Development of graphene oxide-cellulose acetate nanocomposite reverse osmosis membrane for seawater desalination, (2019) <i>Composites Part B: Engineering</i> , 161, pp. 320-327
27.	Zhang, H., Han, Q., Gao, X., Tang, X., Chen, K., Li, M., Impact of reinforcing additives on the structure and performance of composite films based on regenerated cellulose from Corn Stalk Pith, (2019) <i>BioResources</i> , 14 (4), pp. 8455-8469
28.	Ghaseminezhad, S.M., Barikani, M., Salehirad, M. Development of graphene oxide-cellulose acetate nanocomposite reverse osmosis membrane for seawater desalination (2019) <i>Composites Part B: Engineering</i> , 161, pp. 320-327.
29.	Rodríguez-González, C., Salas, P., López-Marín, L.M., Millán-Chiu, B., De La Rosa, E. Hydrothermal synthesis of graphene oxide/multiform hydroxyapatite nanocomposite: Its influence on cell cytotoxicity (2018) <i>Materials Research Express</i> , 5 (12), art. no. 125023, .
30.	Fei, P., Liao, L., Meng, J., Cheng, B., Hu, X., Song, J. Synthesis, characterization and antibacterial properties of reverse osmosis membranes from cellulose bromoacetate (2018) <i>Cellulose</i> , 25 (10), pp. 5967-5984.
31.	Muhulet, A., Miculescu, F., Voicu, S.I., Schütt, F., Thakur, V.K., Mishra, Y.K., Fundamentals and scopes of doped carbon nanotubes towards energy and biosensing applications(2018) <i>Materials Today Energy</i> , 9, pp. 154-186
32.	Moldovan, H., Ploeanu, E., Dan, G., Vasilescu, M., Dobrescu, M., Milea, C., Earar, K., Gheorghita, D. Contributions on biodegradability of Mg-Ca alloys for orthopedic implants (2018) <i>UPB Scientific Bulletin, Series B: Chemistry and Materials Science</i> , 80 (4), pp. 229-246.
33.	Liao, L., Fei, P.-F., Cheng, B.-W., Meng, J.-Q., Hu, X.-Y., Song, J. Fabrication and antibacterial properties of cellulose Triacetate/Chitosan reverse osmosis membrane (2018) <i>Acta Polymerica Sinica</i> , (5), pp. 607-616.
34.	Fei, P., Liao, L., Meng, J., Cheng, B., Hu, X., Song, J. Non-leaching antibacterial cellulose triacetate reverse osmosis membrane via covalent immobilization of quaternary ammonium cations (2018) <i>Carbohydrate Polymers</i> , 181, pp. 1102-1111.
35.	Ioniță, M., Crică, L.E., Voicu, S.I., Dinescu, S., Miculescu, F., Costache, M., Iovu, H, Synergistic effect of carbon nanotubes and graphene for high performance cellulose acetate membranes in biomedical applications (2018) <i>Carbohydrate Polymers</i> , 183, pp. 50-61
36.	Suzuki, S., Shibata, Y., Hirose, D., Endo, T., Ninomiya, K., Kakuchi, R., Takahashi, K. Cellulose triacetate synthesis via one-pot organocatalytic transesterification and delignification of pretreated bagasse (2018) <i>RSC Advances</i> , 8 (39), pp. 21768-21776.
37.	Lu, H.T., Kanehashi, S., Scholes, C.A., Kentish, S.E. The impact of ethylene glycol and hydrogen sulphide on the performance of cellulose triacetate membranes in natural gas sweetening (2017) <i>Journal of Membrane Science</i> , 539, pp. 432-440.
38.	Hamnabard, N., Hanifehpour, Y., Joo, S.W. Effectiveness of Nd doping and graphene oxide modification on electrochemical performance of CdSe nanorod material(2017) <i>Journal of Industrial and Engineering Chemistry</i> , 49, pp. 88-98.
39.	Ioniță, M., Vlăsceanu, G.M., Watzlawek, A.A., Voicu, S.I., Burns, J.S., Iovu, H., Graphene and functionalized graphene: Extraordinary prospects for nanobiocomposite materials (2017) <i>Composites Part B: Engineering</i> , 121, pp. 34-57
40.	Neacsu, P., Staras, A.I., Voicu, S.I., Ionascu, I., Soare, T., Uzun, S., Cojocaru, V.D., Pandele, A.M., Croitoru, S.M., Miculescu, F., Cotrut, C.M., Dan, I., Cimpean, A, Characterization and in vitro and in vivo assessment of a novel cellulose acetate-coated Mg-based alloy for orthopedic applications(2017) <i>Materials</i> , 10 (7), art. no. 686
41.	Corobea, M.C., Muhulet, O., Miculescu, F., Antoniac, I.V., Vuluga, Z., Florea, D., Vuluga, D.M., Butnaru, M., Ivanov, D., Voicu, S.I., Thakur, V.K, Novel nanocomposite membranes from cellulose acetate and clay-silica nanowires(2016) <i>Polymers for Advanced Technologies</i> , 27 (12), pp. 1586-1595

42.	Thakur, V.K., Voicu, S.I., Recent advances in cellulose and chitosan based membranes for water purification: A concise review(2016) Carbohydrate Polymers, 146, pp. 148-165
43.	Voicu, S.I., Muhulet, A., Miculescu, M., Miculescu, F., Vizireanu, S., Polysulfone membrane reactors for derivatization of carbon nanotubes(2016) Advanced Materials - TechConnect Briefs 2016, 1, pp. 300-303
44.	Voicu, S.I., The influence of filler in composite cellulose acetate membranes for proteins recovery(2016) Key Engineering Materials, 695, pp. 267-272
DF. Enache, E. Vasile, CM Simonescu, D. Culita, E. Vasile, O. Oprea, AM. Pandeale, A. Razvan, F. Dumitru, G. Nechifor, Schiff base-functionalized mesoporous silicas (MCM-41, HMS) as Pb(ii) adsorbents, RCS Advances, 8 (2018), 176-189, 10.1039/c7ra12310h	
1.	Maqinana S., Kowenje C.O., Ojwach S.O., Effective adsorption of Cd(II), Cr(VI) and Pb(II) ions from aqueous solutions using silica immobilized (pyridine)/(phenoxy)imine chelating agents, Next Materials, 2025, 9, 101142
2.	Simonescu C.M., Culita D.C., Marinescu G., Oprea O., Stanica N., Novel Magnetically Recoverable Amino-Functionalized MIL-101(Fe) Composite with Enhanced Adsorption Capacity for Pb(II) and Cd(II) Ions, Molecules, 2025, 30(13), 2879
3.	Ezzeddine Z., Batoneanu-Gener I., Ghssein G., Pouilloux Y., Recent Advances in Heavy Metal Adsorption via Organically Modified Mesoporous Silica: A Review, Water Switzerland, 2025, 17(5), 669
4.	Miao X., Zhang J., Shi J., Liu D., Hou L., Synthesis of UiO-66-NH <sub>2</sub> @PSF Hollow Fiber Membrane with Enhanced Simultaneous Adsorption of Pb <sup>2+</sup> and Phosphate for Hydrogen Peroxide Purification, ACS Applied Materials and Interfaces, 2025, 17(5), 8537-8549
5.	Stocki J., Kusmierz M., Sofinska-Chmiel W., Gaska R., Grajek H., Parametric Modelling of the Crystalline Microstructure of the MCM41-Type Mesoporous Silica Modified with Derivatives of Alkyls, Materials, 2024, 17(13), 3065
6.	Simonescu C.M., Dumitru F., Zarnescu B., Trusca R., Vasile E., Competitive Adsorption of Aqueous Cd(II) and Pb(II) Solutions onto Silicas Synthesized with Saponin as Template Agent, Journal of Composites Science, 2024, 8(6), 227
7.	Bosica G., Abdilla R., Novel Biopolymer-Based Catalyst for the Multicomponent Synthesis of N-aryl-4-aryl-Substituted Dihydropyridines Derived from Simple and Complex Anilines, Molecules, 2024, 29(8), 1884
8.	Salek Gilani N., Ehsani Tilami S., Azizi S.N., Synthesized analcime zeolite: an effective adsorbent for removal of Pb(II) ions from aqueous solution, Inorganic and Nano Metal Chemistry, 2024, 54(8), 804-812
9.	Spoiala A., Ilie C.I., Dolete G., Oprea O.C., Ditu M.L., The Development of Alginate/Ag NPs/Caffeic Acid Composite Membranes as Adsorbents for Water Purification, Membranes, 2023, 13(6), 591
10.	Marin N.M., Dolete G., Motelica L., opera O.C., Ficai A., Preparation of Eco-Friendly Chelating Resins and Their Applications for Water Treatment, Polymers, 2023, 15(10), 2251
11.	Petrisor G., Motelica L., Ficai D., Ditu L.M., Increasing Bioavailability of Trans-Ferulic Acid by Encapsulation in Functionalized Mesoporous Silica, Pharmaceutics, 2023, 15(2), 660
12.	Banciu C.A., Chitanu E., Malaeru T., Georgescu G., Borbath I., Comparative study of the hydrophobic properties of silicon dioxide particles functionalized with different agents, Journal of Optoelectronics and Advanced materials, 2023, 25(1-2), 89-95
13.	Menezes T., Bouguerra S., Andreani T., Pereira R., Pereira C., Preparation, Characterization, and Environmental Safety Assessment of Dithiocarbamate Loaded Mesoporous Silica Nanoparticles, Nanomaterials, 2023, 13(2), 370
14.	Macchione M.A., Bedoya D.A., Rivero-Buceta E., Botella P., Strumia M.C., Mesoporous Silica and Oligo (Ethylene Glycol) Methacrylates-Based Dual-Responsive Hybrid Nanogels, nanomaterials, 2022, 12(21), 3835
15.	Zandi-Mehri E., Taghavi L., Moeinpour F., Khosravi I., Ghasemi S., Modification of halloysite nanotubes by hydroxyl terminated triazine-based dendritic polymer for efficient adsorptive removal of Cd (II) from aqueous media, Applied organometallic Chemistry, 2022, 36(10), e6816
16.	Fernades p. Brito J.C., Travagin F., Miletto I., Giovenzana G.B., Gianotti E., Grafting Going Green: Toward a Sustainable Preparation of Organic-Inorganic Hybrid Materials, Journal of Physical Chemistry B., 2022, 126(37), 7166-7171
17.	Spoială A., Ilie C.I., Dolete G., Andronescu E., Ditu L.M., Preparation and Characterization of Chitosan/TiO <sub>2</sub> Composite Membranes as Adsorbent Materials for Water Purification, Membranes, 2022, 12(8), 804
18.	Taghavi S., Ghedini E., Menegazzo F., Murzin D.Y., Signoretto M., CuZSM-5@HMS composite as an efficient micro-mesoporous catalyst for conversion of sugars into levulinic acid, Catalysis today, 2022, 390-391, 146-161
19.	Liu D., Lin M., Chen W., Li X., Li L., Enhancing catalytic ozonation activity of MCM-41 via one-step incorporating fluorine and iron: The interfacial reaction induced by hydrophobic sites and Lewis acid sites, Chemosphere, 2022, 133544

20.	Gandadhar J., Tirumuruhan B., Sujith R., Applications and Future Trends in Mesoporous Materials, Engineering Materilas, 2022, 235-258
21.	Vareda J.P., Matos P.D., Valente A.J.M., Duraes L., A New Schiff Base Organically Modified Silica Aerogel-Like Material for Metal Ion Adsorption with Ni Selectivity, Adsorption Science and technology, 2022, 8237403
22.	Min J., Song W., Hu T., Shan S., Su H, Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> nanoparticle-supported Co(III)-Salen composites as recyclable heterogeneous catalyst for the fixation of CO <sub>2</sub> , Ceramic International, 2021, 47(24), 35320-35332
23.	Luo Y., Wang J.P., Cui X., Li G.L., Wang W., Surface-modified mesoporous silica nanorods for the highly aging resistance rubber through controlled release of antioxidant, Polymers for Advanced Technologies, 2021, 32(9), 3384-3391
24.	Qian L., Zeng Z., Zhang S., Xia K., Guo Y., Magnetic poly-o-vanillin-functionalized core-shell nanomaterials as a smart sorbent for scavenging mercury(ii) from aqueous solution, New Journal of Chemistry, 2021, 45(32), 14724-14738
25.	Amdeha E., Mohamed R.S., Dhmees A.S., Sonochemical assisted preparation of ZnS–ZnO/MCM-41 based on blast furnace slag and electric arc furnace dust for Cr (VI) photoreduction, Ceramics International, 2021, 47(16), 23014-23027
26.	Abdolahi, S., Hajjami, M., Gholamian, F., An approach to the synthesis and characterization of HMS/Pr-Rh-Zr as efficient catalyst for synthesis of tetrahydrobenzo[b]pyran and 1,4-dihydropyrano[2,3-c]pyrazole derivatives(2021) Research on Chemical Intermediates, 47 (5), pp. 1883-1904
27.	Zhang X., Du T., Jia H., Efficient activation of coal fly ash for silica and alumina leaches and the dependence of pb(Ii) removal capacity on the crystallization conditions of al-MCM-41, International Journal of Molecuar Sciences, 2021, 22(12), 6540
28.	Zhang, Y., Wu, G., Yang, Y., Sun, J., Zhang, D., Preparation of SBA-15 mesoporous silica grafted with bis-salicylaldehyde Schiff base for uptake of Pb(II) and Cu(II) from water, (2021) Journal of Sol-Gel Science and Technology, 98 (1), pp. 170-182
29.	Ahn, Y., Kwak, S.-Y., Functional mesoporous silica with controlled pore size for selective adsorption of free fatty acid and chlorophyll, 2020, Microporous and Mesoporous Materials, 306, art. no. 110410
30.	Parambadath, S., Mathew, A., Mohan, A., Ha, C.-S., Chelation dependent selective adsorption of metal ions by Schiff Base modified SBA-15 from aqueous solutions, 2020, Journal of Environmental Chemical Engineering, 8 (5), art. no. 104248
31.	Simonescu, C.M., Melinescu, A., Culita, D.C., Hasan, D., Zarnescu, B., Ciuca, M., Evaluation of zeolitic materials synthesized from coal fly ash as potential Cd(II) adsorbents from aqueous solutions, 2020, Revista de Chimie, 70 (9), pp. 125-142
32.	Zhang, Y., Cao, X., Sun, J., Wu, G., Wang, J., Zhang, D., Synthesis of pyridyl Schiff base functionalized SBA-15 mesoporous silica for the removal of Cu(II) and Pb(II) from aqueous solution, 2020, Journal of Sol-Gel Science and Technology, 94 (3), pp. 658-670
33.	Xiao, C., Lin, J., PAMPS-graft -Ni <sub>3</sub> Si <sub>2</sub> O <sub>5</sub> (OH) <sub>4</sub> multiwalled nanotubes as a novel nano-sorbent for the effective removal of Pb(ii) ions, 2020, RSC Advances, 10 (13), pp. 7619-7627
34.	Costa, J.A.S., de Jesus, R.A., Santos, D.O., Mano, J.F., Romão, L.P.C., Paranhos, C.M., Recent progresses in the adsorption of organic, inorganic, and gas compounds by MCM-41-based mesoporous materials, 2020, Microporous and Mesoporous Materials, 291, art. no. 109698
35.	Tomul, F., Arslan, Y., Tran, H.N., Metal-Loaded Carbonated Mesoporous Calcium Silicates: Synthesis, Characterization, and Application for Diclofenac Removal from Water, (2019) <i>Industrial and Engineering Chemistry Research</i> , 58 (48), pp. 22084-22093
36.	Fu, Y., Sun, Y., Chen, Z., Ying, S., Wang, J., Hu, J., Functionalized magnetic mesoporous silica/poly(m-aminothiophenol) nanocomposite for Hg(II) rapid uptake and high catalytic activity of spent Hg(II) adsorbent, (2019) <i>Science of the Total Environment</i> , 691, pp. 664-674
37.	Freire, C., Nunes, M., Pereira, C., Fernandes, D.M., Peixoto, A.F., Rocha, M., Metallo(salen)complexes as versatile building blocks for the fabrication of molecular materials and devices with tuned properties, (2019) <i>Coordination Chemistry Reviews</i> , 394, pp. 104-13
38.	Fu, Y., Jiang, J., Chen, Z., Ying, S., Wang, J., Hu, J., Rapid and selective removal of Hg(II)ions and high catalytic performance of the spent adsorbent based on functionalized mesoporous silica/poly(m-aminothiophenol)nanocomposite, (2019) <i>Journal of Molecular Liquids</i> , 286, art. no. 110746
39.	Salazar-Contreras, H.G., Martínez-Hernández, A., Boix, A.A., Fuentes, G.A., Torres-García, E., Effect of Mn on Co/HMS-Mn and Co/SiO <sub>2</sub> -Mn catalysts for the Fischer-Tropsch reaction, (2019) <i>Applied Catalysis B: Environmental</i> , 244, pp. 414-426
40.	Simonescu, C.M., Tanase, I.-R., Purcaru, I.N., Tardei, C., Marinescu, V., Fixed - Bed column adsorption studies using synthetic hydroxyapatite for Pb(II) removal from aqueous solutions, (2019) <i>Revista de Chimie</i> , 70 (5), pp. 1758-1764
41.	Razvan, A., Popa, D.F., Oprea, O., Vasile, E., Dumitru, F., Nechifor, G., Ultrafiltration mixed matrix membranes based on mesoporous silica (MCM-41, HMS)embedded in polysulfone, (2019) <i>Revista de Chimie</i> , 70 (9), pp. 3089-3093
42.	Haas, S., Boschi, V., Grannas, A., Metal sorption studies biased by filtration of insoluble metal oxides and hydroxides, (2019) <i>Science of the Total Environment</i> , 646, pp. 1433-1439

43.	Gawas, R.U., Anand, S., Ghosh, B.K., Shivbhagwan, P., Choudhary, K., Ghosh, N.N., Banerjee, M., Chatterjee, A., Development of a Water-Dispersible SBA-15-Benzothiazole-Derived Fluorescence Nanosensor by Physisorption and Its Use in Organic-Solvent-Free Detection of Perborate and Hydrazine (2018) <i>ChemistrySelect</i> , 3 (38), pp. 10585-10592
44.	Pylypchuk, I.V., Kessler, V.G., Seisenbaeva, G.A., Simultaneous Removal of Acetaminophen, Diclofenac, and Cd(II) by <i>Trametes versicolor</i> Laccase Immobilized on Fe <sub>3</sub> O <sub>4</sub> /SiO <sub>2</sub> -DTPA Hybrid Nanocomposites, (2018) <i>ACS Sustainable Chemistry and Engineering</i> , 6 (8), pp. 9979-998
45.	Busuioc, L.T., Simonescu, C.M., Nechifor, G., Radoi, E., Girbea, I.E., Kinetic Studies of Zn(II) Removal from Single and Binary Solutions by Synthetic Hydroxyapatite - Based Nanopowders, (2018) <i>Revista de Chimie</i> , 69 (6), pp. 1293-1297
46.	Atescu, R.E., Simonescu, C.M., Nechifor, G., Tardei, C., Ionascu, I.C., The influence of synthesis conditions on hydroxyapatite adsorption characteristics in the process of Zn(II) and Pb(II) removal from single and binary solutions (2018) <i>Revista de Chimie</i> , 69 (4), pp. 759-766
<b>A.M. Pandele, C. Andronescu, E. Vasile, L.C. Radu, P. Stanescu, H. Iovu, Non-covalent functionalization of GO for improved mechanical performances of pectin composite films, <i>Composite Part A-Applied Science and Manufacturing</i>, 103(2017), 188-195, 10.1016/j.compositesa.2017.10.005</b>	
1.	Aslani A., Yari H., Rezaei M., Jalili M., Ramezanzadeh B., Graphene oxide decoration with ZnAl LDH and further functionalization with APTES for enhancing the toughness of polyurethane coatings, <i>Scientific Reports</i> , 2025, 15(1), 30876
2.	Li Z., Khan M.R., Ahmad N., Zhang W, Goksen G., Preparation of polysaccharide-based films synergistically reinforced by tea polyphenols and graphene oxide, <i>Food Chemistry X.</i> , 2025, 27, 102414
3.	Wen C., Tang J., Wu M., Duan Y., Xu X., Preparation, characterization, and stability of pectin-whey protein isolate-based nanoparticles with mitochondrial targeting ability, <i>International Journal of Biological Macromolecules</i> , 2025, 301, 140383
4.	Jacques M.B., Guy N.P., Jules M.L., Tchieta G.P., Francois K.W., Removal of crystal violet by TiO <sub>2</sub> loaded alkali-activated carbon hybrid material from <i>Raphia farinifera</i> fruit kernels: surface chemistry, parameters and mechanisms, <i>Biomass Conversion and Biorefinery</i> , 2025, 15(2), 2409-2429
5.	Jha A., Mishra S., Exploring the potential of waste biomass-derived pectin and its functionalized derivatives for water treatment, <i>International Journal of Biological Macromolecules</i> , 2024, 275, 133613
6.	Ghirbani M., Tarlani A., Taghnaei-Ganjali S., Malekzade M., Nanostructures Originated from Grafting Amino Group Containing Biomolecules on Graphene Oxide, <i>Chemistryselect</i> , 2024, 9(16), e202304045
7.	Li H., Yuan P., Xie Y., Liu Z., Chu L., Research Progress of New Graphene Composites in the Field of Metal Corrosion Protection, <i>Corrosion and Protection</i> , 2024, 45(7), 43-49
8.	Nayana D.A., George N.S., Nandakumar S., Aravind A., Manoj P.K., Future of Nanotechnology and Functionalized Nanomaterials, <i>Materilas Horizons from Nature to Nanomaterials</i> , 2024, Part F1329, 655-677
9.	Li L., Tang Y., Bao Z., Zhao C., Li Q., When graphene meets circular agriculture: Insights into agricultural sustainable development, <i>Biosystems Engineering</i> , 2024, 237, 91-117
10.	Singh M., Bhardiya S.R., rai A., Rai V.K., Graphene-based Nanomaterials for Electrochemical Sensing of Hydrazine: A Short Review, <i>Current Analytical Chemistry</i> , 2023, 19(1), 27-37
11.	Eivazzadeh-Keihan R., Pourakbari B., Jahani Z., Maleki A., Mahdavi M., Biological investigation of a novel nanocomposite based on functionalized graphene oxide nanosheets with pectin, silk fibroin and zinc chromite nanoparticles, <i>Journal of Biotechnology</i> , 2022, 358, 55-63
12.	Zhao C., Zhao Y., Pei X., Wang W., Xu Z., Probing mechanical properties of graphene oxide/epoxy composites based on nano indentation technique, <i>Journal of Reinforced Plastics and Composites</i> , 2022, 41(21-22), 882-890
13.	Zhou Y., Feng H., Li T., Zhuang K., Chen X., Preparation and Physicochemical Properties of $\beta$ -glucan/Pectin Composite Films, <i>Modern Food Science and Technology</i> , 2022, 38(9), 228-235
14.	Nassem Z., Shansaei E., Sagoe-Crentsil K., Duan W., Antifoaming effect of graphene oxide nanosheets in polymer-modified cement composites for enhanced microstructure and mechanical performance, <i>Cement and Concrete research</i> , 2022, 158, 106843
15.	Sainz-Urruela C., Vera-Lopez S., Paz San Andres M., Diez-Pascual A.M., Surface functionalization of graphene oxide with tannic acid: Covalent vs non-covalent approaches, <i>Journal of Molecular Liquids</i> , 2022, 357, 119104
16.	Vlasceanu G.M., Ionita M., Popescu CC., Ghitman J., Iovu H., Chitosan-Based Materials Featuring Multiscale Anisotropy for Wider Tissue Engineering Applications, <i>International Journal of Molecular Sciences</i> , 2022, 23(10)5536

17.	Cataldo A., La Pietra M., Zappelli L., Pierantoni L., Belluci S., MacGyvered Multiproperty Materials Using Nanocarbon and Jam: A Spectroscopic, Electromagnetic and Rheological Investigation, <i>Journal of Functional Biomaterials</i> , 2022, 13(1) 5
18.	Liu L., Luo H., Yang Y., Ding Q, Zhang H., Study on formulation and preparation technology of the composite cellulose-based enteric capsule shells, <i>Drug Development and Industrial Pharmacy</i> , 2022, 48(11), 646-656
19.	Tambe P., Mane S., Chaudhari B.P., Kulabhusan P.K., Carbon nanomaterials for therapeutic applications, <i>Fundamentals of Bionanomaterials</i> , 2022, 293-325
20.	Hanauer D.C., de Souza A.G., Carginin M.A., Rosa D.D.S., Paulino A.T., Pectin-based biohydrogels reinforced with eucalyptus sawdust: Synthesis, characterization, $\beta$ -D-Galactosidase immobilization and activity, <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 97, 368-382
21.	Ma L., Zhao D., Zheng J., Construction of electrostatic and $\pi$ - $\pi$ interaction to enhance interfacial adhesion between carbon nanoparticles and polymer matrix, <i>Journal of Applied Polymer Science</i> , 2020, 137(18), 48633
22.	Chen Q., Li Y., Xiang D., Han H., Shen Y., Enhanced Strain Sensing Performance of Polymer/Carbon Nanotube-Coated Spandex Fibers via Noncovalent Interactions, <i>Macromolecular Materials and Engineering</i> , 2020, 305(2), 1900525
23.	Cojocar E., Onas A.M., Iovu H., Carboxylated graphene oxide integrated chitosan composite scaffolds as encouraging materials for tissue engineering, <i>UPB Scientific Bulletin Series B Chemistry and Materials Science</i> , 2020, 82(4), 15-28
24.	Xiang D., Zhang X., Li Y., Zhao C., Wang P., Enhanced performance of 3D printed highly elastic strain sensors of carbon nanotube/thermoplastic polyurethane nanocomposites via non-covalent interactions, <i>Composites Part B Engineering</i> , 2019, 176, 107250
25.	Dhamodharan D., Senthil T., Kale M.B., Wu L., Wang J., M-rGO-ZnNi-LDH exfoliated WEP nanocomposites: Effects of nanosheets on the mechanical and thermal properties, <i>Composites Part A Applied Science and Manufacturing</i> , 2019, 124, 105480
26.	Yan J., Huang Y., Zhou S., Han X., Liu P., Preparation and microwave absorption properties of Nanomesh Poly (3,4-ethylenedioxythiophene) covalently functionalized graphene oxide, <i>Journal of Materials Science Materials in Electronics</i> , 2019, 30(5), 5273-5283
27.	Yi L., Zhang Y., Shi X., Yu A., Zhai G., Recent progress of functionalised graphene oxide in cancer therapy, <i>Journal of Drug Targeting</i> , 2019, 27(2), 125-144
<b>A.M. Pandele, P. Neacsu, A. Cimpean, A.I. Staras, F. Miculescu, A. Iordache, S.I. Voicu, V.K. Thakur, O.D. Toader, Cellulose acetate membranes functionalized with resveratrol by covalent immobilization for improved Osseointegration, <i>Applied Surface Science</i>, 2018, 438, 2-13, 10.1016/j.apsusc.2017.11.102</b>	
1.	Wu M., Xia J., Hu Y., Li W. Zhang W., Box-Behnken Optimized Sustained-Release PEG-PLGA Nanoparticles for Enhanced Cytotoxicity of Resveratrol Against Gastric Cancer Cells, <i>Journal of Cluster Science</i> , 2025, 36(4), 140
2.	Tandon B., Aguilar Cosme J.R., Xue R., Blaker J.J., Cartmell S.H., Co-stimulation with piezoelectric PVDF films and low intensity pulsed ultrasound enhances osteogenic differentiation, <i>Biomaterials Advances</i> , 2025, 173, 214283
3.	Carballo G.V., Lin H.Y., Chen P.C., Tsai H.A., Lee K.R., Effect of tertiary amine carbon quantum dots incorporation on oil/water separation performance of membranes, <i>Journal of Environmental Chemical Engineering</i> , 2025, 13(2), 115784
4.	Celuppi L.C.M., Capelezzo A.P., Scapinello J., Fiori M.A., Riella H.G., In vivo biocompatibility and biodegradability of antimicrobial cellulose acetate films with geranyl acetate, <i>Polymer Bulletin</i> , 2025
5.	Carballo G.V., Hsu Y.X., Yang H.L., Tsai H.A., Lee K.R., Novel in-situ zwitterionization of carbon quantum dots on membrane surface for oil/water separation, <i>Separation and Purification Technology</i> , 2024, 348, 127757
6.	Alves L.P., Oliveira K.D.S., Santos A.C.G.D., Cavalcanti A.L.D.M., Damasceno B.P.G.D.L., Cellulose Acetate Microparticles Synthesized from Agave sisalana Perrine for Controlled Release of Simvastatin, <i>Polymers</i> , 2024, 16(13), 1898
7.	Esmailzadeh F., Their-Ledari R., Kashtiaray A., Mashayekhan S., Maleki A., Sustainable celloMOF cargoes for regenerative medicine and drug delivery therapies: A review, <i>Industrial Crops and Products</i> , 2024, 212, 118293
8.	Lima P.H.C.D., Ribeiro-Viana R.M., Plath A.M.S., Grillo R., Lignocellulosic-biomolecules conjugated systems: green-engineered complexes modified by covalent linkers, <i>Journal of Materials Chemistry B.</i> , 2024, 12(10), 2471-2480
9.	Ullah A., Lee G.J., Kwon H.T., Lim S.I., Covalent immobilization of human serum albumin on cellulose acetate membrane for scavenging amyloid beta – A stepping extracorporeal strategy for ameliorating Alzheimer's disease, <i>Colloids and Surfaces B Biointerfaces</i> , 2024, 234, 113753

10.	Giavaresi G., Bellavia D., De Luca A., Pignatti G., Fini M., Magnesium Alloys in Orthopedics: A Systematic Review on Approaches, Coatings and Strategies to Improve Biocompatibility, Osteogenic Properties and Osteointegration Capabilities, <i>International Journal of Molecular Sciences</i> , 2024, 25(1), 282
11.	Nowak M., Semba D., Mistic D., Trusek A., Zizovic I., The transformation of cellulose acetate into a new biocidal polymer by effluent-free grafting in supercritical carbon dioxide, <i>Journal of Supercritical Fluids</i> , 2023, 202, 106058
12.	Voicu S.I., Thakur V.K., Green polymers-based membranes for water reuse in a circular economy context, <i>Current Opinion in Green and Sustainable Chemistry</i> , 2023, 43, 100852
13.	Ismail N.H., Wan Salleh W.N., Hasbullah H., Ismail A.F., Effect of hydrous manganese oxide (HMO) functional groups on oily wastewater treatment, <i>Applied Nanoscience Switzerland</i> , 2023, 13(6), 4207-4218
14.	Zhang Z.Q., Ren K.F., Ji J., Silane coupling agent in biomedical materials, <i>Biointerphases</i> , 2023, 18(3), 030801
15.	Galvao D.S., Alves N.A., Tiburtius E.R.L., Pessoa C.A., Fujiwara S.T., Reactive dye degradation using Fe <sup>3+</sup> modified membranes obtained from cigarette filters, <i>Journal of Photochemistry and Photobiology A Chemistry</i> , 2023, 439, 114586
16.	Oprea M., Voicu S.I., Cellulose Acetate-Based Materials for Water Treatment in the Context of Circular Economy, <i>Water Switzerland</i> , 2023, 15(10), 1860
17.	Ravichandran S.R., Venkatachalam C.D., Sengottian M., Thorali Sivakumar S., Subramanian S.S., Fabrication of Nanoparticle-Doped Polyvinyl Alcohol-Cellulose Acetate Membrane and Characterization of the Surface Enhancement, <i>Clean Soil Air Water</i> , 2023, 51(3), 2100305
18.	Celuppi L.C.M., Capelezzo A.P., Cima L.B., Fiori M.A., Riella H.G., Microbiological, thermal and mechanical performance of cellulose acetate films with geranyl acetate, <i>International Journal of Biological Macromolecules</i> , 2023, 228, 517-527
19.	Radu E.R., Voicu S.I., Thakur V.K., Polymeric Membranes for Biomedical Applications, <i>Polymers</i> , 2023, 15(3), 619
20.	Alam A., Alqarni M.H., Foudah A.I., Raish M., Salkini M.A., Babchi Oil-Based Nanoemulsion Hydrogel for the Management of Psoriasis: A Novel Energy Economic Approach Employing Biosurfactants, <i>gels</i> , 2022, 8(12), 761
21.	Zhu T., Zuo X., Lin X., Zeng R., Nan J., High-Wettability Composite Separator Embedded with in Situ Grown TiO <sub>2</sub> Nanoparticles for Advanced Sodium-Ion Batteries, <i>Energy Technology</i> , 2022, 10(10), 2200409
22.	Nogueira L.F.B., Cruz M.A.E., Aguilar G.J., Ciancaglini P., Ramos A.P., Synthesis of Antibacterial Hybrid Hydroxyapatite/Collagen/ Polysaccharide Bioactive Membranes and Their Effect on Osteoblast Culture, <i>International Journal of Molecular Sciences</i> , 2022, 23(13), 7277
23.	Tan Y., Feng J., Xiao Y., Bao C., Grafting resveratrol onto mesoporous silica nanoparticles towards efficient sustainable immunoregulation and insulin resistance alleviation for diabetic periodontitis therapy, <i>Journal of Materials Chemistry B</i> , 2022, 10(25), 4840-4855
24.	Li B., Wang M., Liu Y., You P., Deng Y., Independent effects of structural optimization and resveratrol functionalization on extracellular matrix scaffolds for bone regeneration, <i>Colloids and Surfaces B Biointerfaces</i> , 2022, 212, 112370
25.	Gao F., Zeng D., Liu H., Wang H., Peng S., Porous cellulose microspheres coated in one step with a polydopamine suspension of hydroxyapatite for bone tissue engineering, <i>Cellulose</i> , 29(3), 2022, 1955-1967
26.	Chummun I., Ramphul H., Bhaw-Luximon A., Bionanomaterials for wound healing applications, <i>Bionanotechnology emerging Applications of Bionanomaterials</i> , 2022, 259-304
27.	Mohammad N.H., El-Sherbiny G.M., Hammad A.A., El-Nour S.A.A., Askar A.A., Optimization of bacterial cellulose production using Plackett-Burman and response surface methodology, <i>Egyptian Journal of Medical Microbiology Egypt</i> , 2021, 30(4), 93-101
28.	Voicu, S.I., Thakur, V.K., Aminopropyltriethoxysilane as a linker for cellulose-based functional materials: New horizons and future challenges, (2021) <i>Current Opinion in Green and Sustainable Chemistry</i> , 30, art. No. 100480
29.	Maia M.T., De Brito Soares A.L., Caetano M.A., Rodriguez-Castellon E., Vieira R.S., Biomimetic strontium substituted calcium phosphate coating for bone regeneration, <i>Coatings</i> , 2021, 11(8), 908
30.	De Guzman M.R., Andra C.K.A., ang M.B.M.Y., Huang S.H., Lee K.R., Increased performance and antifouling of mixed-matrix membranes of cellulose acetate with hydrophilic nanoparticles of polydopamine-sulfobetaine methacrylate for oil-water separation, <i>Journal of Membrane Science</i> , 2021, 620, 118881
31.	Kehinde B.A., Joy O.S., Ishrat M., Kehinde O., Ashaolu T.J., Use of Biopolymers for Packaging of Functional Foods, <i>Functional Foods</i> , 2021, 477-509
32.	Oprea, M., Voicu, S.I., Cellulose composites with graphene for tissue engineering applications, 2020, <i>Materials</i> , 13 (23), art. No. 5347, pp. 1-24

33.	Oprea M., Voicu S.I., Recent advances in composites based on cellulose derivatives for biomedical applications, <i>Carbohydrate Polymers</i> , 2020, 247, 116683
34.	Yue, Y., Luo, H., Han, J., Chen, Y., Jiang, J., Assessing the effects of cellulose-inorganic nanofillers on thermo/pH-dual responsive hydrogels, 2020, <i>Applied Surface Science</i> , 528, art. no. 146961
35.	Lee, J.H., Kim, H.-S., Yun, E.-T., Ham, S.-Y., Park, J.-H., Ahn, C.H., Lee, S.H., Park, H.-D., Vertically aligned carbon nanotube membranes: Water purification and beyond, 2020, <i>Membranes</i> , 10 (10), art. no. 273, pp. 1-31
36.	Ates, B., Koytepe, S., Ulu, A., Gurses, C., Thakur, V.K., Chemistry, structures, and advanced applications of nanocomposites from biorenewable resources, 2020, <i>Chemical Reviews</i> , 120 (17), pp. 9304-9362
37.	Serbanescu, O.S., Voicu, S.I., Thakur, V.K., Polysulfone functionalized membranes: Properties and challenges, 2020, <i>Materials Today Chemistry</i> , 17, art. no. 100302
38.	Schiavone, M.-M., Lamparelli, D.H., Zhao, Y., Zhu, F., Revay, Z., Radulescu, A., The effects of temperature and humidity on the microstructure of sulfonated syndiotactic-polystyrene ionic membranes, 2020, <i>Membranes</i> , 10 (8), art. no. 187, pp. 1-18
39.	Ahmed, M.K., Menazea, A.A., Abdelghany, A.M., Blend biopolymeric nanofibrous scaffolds of cellulose acetate/ $\epsilon$ -polycaprolactone containing metallic nanoparticles prepared by laser ablation for wound disinfection applications, 2020, <i>International Journal of Biological Macromolecules</i> , 155, pp. 636-644
40.	Ulu, A., Karaman, M., Yapıcı, F., Naz, M., Sayın, S., Saygılı, E.İ., Ateş, B., The Carboxylated Multi-walled Carbon Nanotubes/l-Asparaginase Doped Calcium-Alginate Beads: Structural and Biocatalytic Characterization, 2020, <i>Catalysis Letters</i> , 150 (6), pp. 1679-1691
41.	Omran, Z., Dadkhah Tehrani, A., New cyclodextrin-based supramolecular nanocapsule for codelivery of curcumin and gallic acid, 2020, <i>Polymer Bulletin</i> , 77 (4), pp. 2003-2019
42.	Florea, D.A., Albuleț, D., Grumezescu, A.M., Andronescu, E., Surface modification – A step forward to overcome the current challenges in orthopedic industry and to obtain an improved osseointegration and antimicrobial properties, 2020, <i>Materials Chemistry and Physics</i> , 243, art. no. 122579
43.	Safarpour, M., Arefi-Oskoui, S., Khataee, A., A review on two-dimensional metal oxide and metal hydroxide nanosheets for modification of polymeric membranes, 2020, <i>Journal of Industrial and Engineering Chemistry</i> , 82, pp. 31-41
44.	Vakili, M.R., Gholami, M., Mosallaei, Z., Ghasemi, A.M., Modification of regenerated cellulose membrane by impregnation of silver nanocrystal clusters, 2020, <i>Journal of Applied Polymer Science</i> , 137 (3), art. no. 48292
45.	Anwar, A., Masri, A., Rao, K., Rajendran, K., Khan, N.A., Shah, M.R., Siddiqui, R. Antimicrobial activities of green synthesized gums-stabilized nanoparticles loaded with flavonoids (2019) <i>Scientific Reports</i> , 9 (1), art. no. 3122, .
46.	Jun, L.Y., Mubarak, N.M., Yon, L.S., Bing, C.H., Khalid, M., Jagadish, P., Abdullah, E.C. Immobilization of Peroxidase on Functionalized MWCNTs-Buckypaper/Polyvinyl alcohol Nanocomposite Membrane (2019) <i>Scientific Reports</i> , 9 (1), art. no. 2215, .
47.	Prateeksha, Barik, S.K., Singh, B.N., Nanoemulsion-loaded hydrogel coatings for inhibition of bacterial virulence and biofilm formation on solid surfaces, (2019) <i>Scientific Reports</i> , 9 (1), art. no. 6520
48.	Zhang, R., Xie, J., Yang, B., Fu, F., Tang, H., Zhang, J., Zhao, Y., Zhang, Y., Liu, L., Zhu, Y., Liu, X., Zhou, J., Yao, J., Self-assembly of chitosan and cellulose chains into a 3D porous polysaccharide alloy films: Co-dissolving, structure and biological properties, (2019) <i>Applied Surface Science</i> , 493, pp. 1032-1041
49.	Hui, Y., Ma, X., Qu, F. Flexible glucose/oxygen enzymatic biofuel cells based on three-dimensional gold-coated nickel foam (2019) <i>Journal of Solid State Electrochemistry</i> , 23 (1), pp. 169-178.
50.	Chiaoprakobkij, N., Saeetabhawang, S., Sanchavanakit, N., Phisalaphong, M., Fabrication and characterization of novel bacterial cellulose/alginate/gelatin biocomposite film, (2019) <i>Journal of Biomaterials Science, Polymer Edition</i> , 30 (11), pp. 961-982
51.	Ye, G., Yu, Z., Li, Y., Li, L., Song, L., Gu, L., Cao, X., Efficient treatment of brine wastewater through a flow-through technology integrating desalination and photocatalysis, (2019) <i>Water Research</i> , 157, pp. 134-144
52.	Narayanan, V., Sumathi, S., Preparation, characterization and in vitro biological study of silk fiber/methylcellulose composite for bone tissue engineering applications, (2019) <i>Polymer Bulletin</i> , 76 (6), pp. 2777-2800
53.	Wróblewska-Krepsztul, J., Rydzkowski, T., Michalska-Požoga, I., Thakur, V.K., Biopolymers for biomedical and pharmaceutical applications: Recent advances and overview of alginate electrospinning, (2019) <i>Nanomaterials</i> , 9 (3), art. no. 404
54.	Gorgieva, S., Hribernik, S., Microstructured and degradable bacterial cellulose-gelatin composite membranes: Mineralization aspects and biomedical relevance, (2019) <i>Nanomaterials</i> , 9 (2), art. no. 303
55.	Mocanu, A.-C., Dobre, A.F., Dascălu, C.-A., Maidaniuc, A., Ernuțeanu, A., Soare, M., Zamfir, R., Gheorghe, D., Saceleanu, A., Saceleanu, V., Extensive quality control sequence for nondestructive characterization of implants for dental restorations, (2019) <i>UPB Scientific Bulletin, Series B: Chemistry and Materials Science</i> , 81 (2), pp. 225-238
56.	Zhang, X., Bao, H., Donley, C., Liang, J., Yang, S., Xu, S., Thiolation and characterization of regenerated Bombyx mori silk fibroin films with reduced glutathione, (2019) <i>BMC Chemistry</i> , 13 (3), art. No. 2019
57.	Bhong, S.Y., More, N., Choppadandi, M., Kapusetti, G., Review on carbon nanomaterials as typical candidates for orthopaedic coatings, (2019) <i>SN Applied Sciences</i> , 1 (1), art. no. 76

58.	Dore, C., Osmond, J., Mihi, A., A water-processable cellulose-based resist for advanced nanofabrication (2018) <i>Nanoscale</i> , 10 (37), pp. 17884-17892.
59.	Narayanan, V., Sumathi, S., Preparation, characterization and in vitro biological study of silk fiber/methylcellulose composite for bone tissue engineering applications (2018) <i>Polymer Bulletin</i> , . Article in Press.
60.	Alqaheem, Y., Alomair, A., Alhendi, A., Alkandari, S., Tanoli, N., Alnajdi, N., Quesada-Peréz, A. Preparation of polyetherimide membrane from non-toxic solvents for the separation of hydrogen from methane (2018) <i>Chemistry Central Journal</i> , 12 (1), art. no. 80
61.	He, X., He, Z., Li, Y., Yu, H., Zhang, L., Ge, H., Man, S., Dai, Y. Modeling of the bacterial inactivation kinetics of dialdehyde cellulose in aqueous suspension (2018) <i>International Journal of Biological Macromolecules</i> , 116, pp. 920-926.
P.Neacsu, A. I.Staras, S.I.Voicu, I. Ionascu, T. Soare, S.Uzun, V.D.Cojocaru, <b>A. M.Pandele</b> , S. M.Croitoru, F.Miculescu, C. M.Cotrut, I. Dan, A.Cimpean, Characterization and In Vitro and In Vivo Assessment of a Novel Cellulose Acetate-Coated Mg-Based Alloy for Orthopedic Applications, <b>Materials</b> , 2017, 10, 686; doi:10.3390/ma10070686.	
1.	Antoniac I.V., Biodegradable magnesium alloys, <i>Functionalized Materials Applications in Biomedicine</i> , 2025, 122-157
2.	Cimpoesu R., Lutcanu M., Cazac A.M., Radu A.M., Cimpoesu N., Electrochemical Corrosion Resistance of Al <sub>2</sub> O <sub>3</sub> -YSZ Coatings on Steel Substrates, <i>Applied Sciences Switzerland</i> , 2024, 14(23), 10877
3.	Zhang B., Zhou Z., Zhang Y., Zhao G., Xu Y., A sugary solution: Harnessing polysaccharide-based materials for osteoporosis treatment, <i>Carbohydrate Polymers</i> , 2024, 345, 122549
4.	Ning T., Juma T., Cao X., Tian H., Cao Y., Biosafety and osteogenic properties of a new type of absorbable magnesium-based amorphous alloy, <i>Journal of Materials Research and Technology</i> , 2024, 32, 687-696
5.	He X., Li Y., Zou D., Li W., Zheng Y., An overview of magnesium-based implants in orthopaedics and a prospect of its application in spine fusion, <i>Bioactive Materials</i> , 2024, 39, 456-478
6.	Shah S.S., Albadrani A., Fettouhi M., Aziz M.A., Helal A., Synthesis and Oxygen Evolution Reaction Application of a Co-Cd Based Bimetallic Metal-Organic Framework, <i>Chemistry an Asian Journal</i> , 2024, 19(16), e202301039
7.	Hassan N., Krieg T., Kopp A., Bach A.D., Kroger N., Challenges and Pitfalls of Research Designs Involving Magnesium-Based Biomaterials: An Overview, <i>International Journal of Molecular Sciences</i> , 2024, 25(11), 6242
8.	Saurav S., Sharma P., Kumar A., Mamidi N., Mohan A., Harnessing Natural Polymers for Nano-Scaffolds in Bone Tissue Engineering: A Comprehensive Overview of Bone Disease Treatment, <i>Current Issues in Molecular Biology</i> , 2024, 46(1), 585-611
9.	Streza A., Antoniac A., Manescu V., Rau J.V., Dura H., In Vitro Studies Regarding the Effect of Cellulose Acetate-Based Composite Coatings on the Functional Properties of the Biodegradable Mg <sub>3</sub> Nd Alloys, <i>Biomimetics</i> , 2023, 8(7), 526
10.	Ungureanu E., Vladescu A., Parau A.C., Vranceanu D.M., Cotrut C.M., In Vitro Evaluation of Ag- and Sr-Doped Hydroxyapatite Coatings for Medical Applications, <i>Materials</i> , 2023, 16(15), 5428
11.	Radu E.R., Voicu S.I., Thakur V.K., Polymeric Membranes for Biomedical Applications, <i>Polymers</i> , 2023, 15(3), 619
12.	Streza A., Antoniac A., Manescu V., Rau J.V., Manolea M.M., Effect of Filler Types on Cellulose-Acetate-Based Composite Used as Coatings for Biodegradable Magnesium Implants for Trauma, <i>Materials</i> , 2023, 16(2), 554
13.	Antoniac I., Manescu V., Antoniac A., Paltanea G., Magnesium-based alloys with adapted interfaces for bone implants and tissue engineering, <i>Regenerative Biomaterials</i> , 2023, 10, rbad095
14.	Cuartas-marulanda D., Forero Cardozo L., Restrepo-Osorio A., Fernandez-Morales P., Natural Coatings and Surface Modifications on Magnesium Alloys for Biomedical Applications, <i>Polymers</i> , 2022, 14(23), 5297
15.	Huang H., Li D., Hou L., Wang Q., Wei Y., Advanced protective layer design on the surface of Mg-based metal and application in batteries: Challenges and progress, <i>Journal of Power Sources</i> , 2022, 542, 231755
16.	Lopez-Ortega A., Saenz de Viteri V., Alves S.A., Velta A., Bayon R., Multifunctional TiO <sub>2</sub> coatings developed by plasma electrolytic oxidation technique on a Ti <sub>20</sub> Nb <sub>20</sub> Zr <sub>4</sub> Ta alloy for dental applications, <i>Biomaterials Advances</i> , 2022, 138, 212875
17.	Negrescu A.M., Mitran V., Draghicescu W., Croitoru S.M., Cimpean A., TiO <sub>2</sub> Nanotubes Functionalized with Icarin for an Attenuated In Vitro Immune Response and Improved In Vivo Osseointegration, <i>Journal of Functional Biomaterials</i> , 2022, 13(2), 43
18.	Hussain M., Khan S.M., Al-Khaled K., Abbas N., Chammam W., Performance analysis of biodegradable materials for orthopedic applications, <i>Materials Today Communications</i> , 2022, 31, 103167
19.	Sun Y., Helmholz H., Will O., Gluer C.C., Willumeit-Romer R., Dynamic in vivo monitoring of fracture healing process in response to magnesium implant with multimodal imaging: pilot longitudinal study in a rat external fixation model, <i>Biomaterials Science</i> , 2022, 10(6), 1532-1543

20.	Antoniac I., Miculescu M., Manescu V., Robu A., Earar K., Magnesium-Based Alloys Used in Orthopedic Surgery, <i>Materials</i> , 2022, 15(3), 1148
21.	Jana A., Das M., Balla V.K., In vitro and in vivo degradation assessment and preventive measures of biodegradable Mg alloys for biomedical applications, <i>Journal of Biomedical Materials Research Part A.</i> , 2022, 110(2), 462-487
22.	Quan P.H., Antoniac I., Miculescu F., Bodog A.D., Saceleanu V., Fluoride Treatment and In Vitro Corrosion Behavior of Mg-Nd-Y-Zn-Zr Alloys Type, <i>Materials</i> , 2022, 15(2), 566
23.	Zhu Y., Liu W., Ngai T., Polymer coatings on magnesium-based implants for orthopedic applications, <i>Journal of Polymer Science</i> , 2022, 60(1), 32-51
24.	Feng M., Li W., Fu Q., Yu S., Yu Z., Progress on Development and Application of Degradable Polymer Modified Coating on Magnesium Alloy Surface, <i>Xiyou Jinshu Cailiao Yu Gongcheng Rare Metal Materials and Engineering</i> , 2021, 50(9), 3366-3374
25.	Sun Y., Helmholtz H., Willumeit-Romer R., Preclinical in vivo research of magnesium-based implants for fracture treatment: A systematic review of animal model selection and study design, <i>Journal of Magnesium and Alloys</i> , 2021, 9(2), 351-361
26.	Habib M., Horne D.A., Hussein K., Ryaby J.T., Lotz J.C., Magnetic nanoparticles synergize with pulsed magnetic fields to stimulate osteogenesis in Vitro, <i>Tissue Engineering Part A</i> , 2021, 27(5-6), 402-412
27.	Mocanu A.C., Miculescu F, Stan G.E., Miculescu M., Ciocan L.T., Preliminary studies on graphene-reinforced 3d products obtained by the one-stage sacrificial template method for bone reconstruction applications, <i>Journal of Functional Biomaterials</i> , 2021, 12(1), 13
28.	Oshida Y., Magnesium materials: From mountain bikes to degradable bone grafts, <i>Magnesium Materials from Mountain Bikes to Degradable Bone Grafts</i> , 2021, 1-808
29.	Negrescu, A.-M., Necula, M.-G., Gebaur, A., Golgovici, F., Nica, C., Curti, F., Iovu, H., Costache, M., Cimpean, A., In vitro macrophage immunomodulation by poly( $\epsilon$ -caprolactone) based-coated AZ31 Mg Alloy, (2021) <i>International Journal of Molecular Sciences</i> , 22 (2), art. no. 909, pp. 1-36
30.	Antoniac, I., Adam, R., Biță, A., Miculescu, M., Trante, O., Petrescu, I.M., Pogărășteanu, M., Comparative assessment of in vitro and in vivo biodegradation of Mg-1Ca magnesium alloys for orthopedic applications, (2021) <i>Materials</i> , 14 (1), art. no. 84, pp. 1-20
31.	dos Santos, A.E.A., dos Santos, F.V., Freitas, K.M., Pimenta, L.P.S., de Oliveira Andrade, L., Marinho, T.A., de Avelar, G.F., da Silva, A.B., Ferreira, R.V., Cellulose acetate nanofibers loaded with crude annatto extract: Preparation, characterization, and in vivo evaluation for potential wound healing applications, (2021) <i>Materials Science and Engineering C</i> , 118, art. no. 111322
32.	Gurau, C., Gurau, G., Mitran, V., Dan, A., Cimpean, A., The influence of severe plastic deformation on microstructure and in vitro biocompatibility of the new Ti-Nb-Zr-Ta-Fe-O alloy composition, 2020, <i>Materials</i> , 13 (21), art. no. 4853, pp. 1-15
33.	Oprea, M., Voicu, S.I., Recent advances in composites based on cellulose derivatives for biomedical applications, 2020, <i>Carbohydrate Polymers</i> , 247, art. no. 116683
34.	Zhou, H., Lu, J., Cheng, Y., Lyu, Y., Wang, H., Research Progress on Modification and Application of Cellulose Acetate [醋酸纤维素的改性及应用研究进展], 2020, <i>Chemistry and Industry of Forest Products</i> , 40 (4), pp. 1-8
35.	Barbeck, M., Kühnel, L., Witte, F., Pissarek, J., Precht, C., Xiong, X., Krastev, R., Wegner, N., Walther, F., Jung, O., Degradation, bone regeneration and tissue response of an innovative volume stable magnesium-supported GBR/GTR barrier membrane, 2020, <i>International Journal of Molecular Sciences</i> , 21 (9), art. no. 3098
36.	Sun, Y., Helmholtz, H., Willumeit-Römer, R., Preclinical in vivo research of magnesium-based implants for fracture treatment: A systematic review of animal model selection and study design, 2020, <i>Journal of Magnesium and Alloys</i>
37.	Li, P., Schille, C., Schweizer, E., Kimmerle-Müller, E., Rupp, F., Han, X., Heiss, A., Richter, A., Legner, C., Klotz, U.E., Geis-Gerstorfer, J., Scheideler, L., Evaluation of a Zn-2Ag-1.8Au-0.2V alloy for absorbable biocompatible materials, 2020, <i>Materials</i> , 13 (1), art. no. 56
38.	Necula, M.G., Mazare, A., Ion, R.N., Ozkan, S., Park, J., Schmuki, P., Cimpean, A., Lateral spacing of TiO <sub>2</sub> nanotubes modulates osteoblast behavior, (2019) <i>Materials</i> , 12 (18), art. no. 2956
39.	Li, J., Li, Z., Tu, J., Jin, G., Li, L., Wang, K., Wang, H. In vitro and in vivo investigations of a-C/a-C:Ti nanomultilayer coated Ti6Al4V alloy as artificial femoral head (2019) <i>Materials Science and Engineering C</i> , 99, pp. 816-826
40.	Gorgieva, S., Hribernik, S. Microstructured and degradable bacterial cellulose-gelatin composite membranes: Mineralization aspects and biomedical relevance (2019) <i>Nanomaterials</i> , 9 (2), art. no. 303,.
41.	Zhao, Z., Zhao, L., Shi, X., Liu, J., Wang, Y., Xu, W., Sun, H., Fu, Z., Liu, B., Hua, S., Effects of polypropylene carbonate coating on the degradation and biocompatibility of degradable magnesium alloy AZ31 [Polüpropüleenkarbonaatkattemõjumagneesiumisulami AZ31 degradatsioonile ja biosobivusele], (2019) <i>Proceedings of the Estonian Academy of Sciences</i> , 68 (1), pp. 13-21

42.	Kiselevsky, M.V., Anisimova, N.Y., Polotsky, B.E., Martynenko, N.S., Lukyanova, E.A., Sitdikova, S.M., Dobatkin, S.V., Estrin, Y.Z., Biodegradable magnesium alloys as promising materials for medical applications (Review), (2019) <i>Sovremennyye Tehnologii v Medicin</i> , 11 (3), pp. 146-157
43.	Parrilla-Almansa, A., García-Carrillo, N., Ros-Tárraga, P., Martínez, C.M., Martínez-Martínez, F., Meseguer-Olmo, L., De Aza, P.N. Demineralized bone matrix coating Si-Ca-P ceramic does not improve the osseointegration of the scaffold (2018) <i>Materials</i> , 11 (9), art. no. 1580,.
44.	Makkar, P., Kang, H.J., Padalhin, A.R., Park, I., Moon, B.-G., Lee, B.T. Development and properties of duplex MgF 2 /PCL coatings on biodegradable magnesium alloy for biomedical applications (2018) <i>PLoS ONE</i> , 13 (4), art. no. e0193927,.
45.	Mitran, V., Ion, R., Miculescu, F., Necula, M.G., Mocanu, A.-C., Stan, G.E., Antoniac, I.V., Cimpean, A. Osteoblast cell response to naturally derived calcium phosphate-based materials (2018) <i>Materials</i> , 11 (7), art. no. 1097,.
46.	Ion, R., Mazare, A., Dumitriu, C., Pirvu, C., Schmuki, P., Cimpean, A. Nanochannelar topography positively modulates osteoblast differentiation and inhibits osteoclastogenesis (2018) <i>Coatings</i> , 8 (9), art. no. 294, .
47.	Mitran, V., Dinca, V., Ion, R., Cojocaru, V.D., Neacsu, P., Dinu, C.Z., Rusen, L., Brajnicov, S., Bonciu, A., Dinescu, M., Raducanu, D., Dan, I., Cimpean, A. Graphene nanoplatelets-sericin surface-modified Gum alloy for improved biological response, (2018) <i>RSC Advances</i> , 8 (33), pp. 18492-18501.
48.	Tao, C., Zhang, Y., Li, B., Chen, L. Hierarchical micro/submicrometer-scale structured scaffolds prepared: Via coaxial electrospinning for bone regeneration (2017) <i>Journal of Materials Chemistry B</i> , 5 (46), pp. 9219-9228.
49.	Tiyyagura, H.R., Mohan, T., Pal, S., Mohan, M.K., Surface modification of Magnesium and its alloy as orthopedic biomaterials with biopolymers, (2018) <i>Fundamental Biomaterials: Metals</i> , pp. 197-210
<b>S.I. Voicu, M.A. Pandele, E. Vasile, R. Rughinis, L. Crica, L. Pilan, M. Ionita, The impact of sonication time through polysulfone graphene oxide composite films properties, <i>Digest Journal of Nanomaterials and Biostructures</i>, 2013, 8(4), 1389-1394</b>	
1.	Salah Z., Bhattacharyya S., Cozzolino V., Amar R.B., Chakraborty S., Graphene oxide- polysulfone nanocomposite membranes for diclofenac removal, <i>Emergent Materials</i> , 2025, 8(3), 1671-1685
2.	Oprea M., Voicu S.I., Cellulose acetate-based membranes for the removal of heavy metals from water in the context of circular economy, <i>Industrial Crops and Products</i> , 2023, 206, 117716
3.	Oprea M., Voicu S.I., Cellulose Acetate-Based Materials for Water Treatment in the Context of Circular Economy, <i>Water Switzerland</i> , 2023, 15(10), 1860
4.	Voicu S.I., Thakur V.K., Graphene-based composite membranes for nanofiltration: performances and future perspectives, <i>Emergent Materials</i> , 2022, 5(5), 1429-1441
5.	Olaret E., Voicu S.I., Oprea R., Stancu I.C., Serafim A., Nanostructured Polyacrylamide Hydrogels with Improved Mechanical Properties and Antimicrobial Behavior, <i>Polymers</i> , 2022, 14(12), 2320
6.	Chiulan I, Voicu S.I., Batalu D., The Use of Graphene and Its Derivatives for the Development of Polymer Matrix Composites by Stereolithographic 3D Printing, <i>Applied Sciences Switzerland</i> , 2022, 12(7), 3521
7.	Radu E.R., Voicu S.I., Functionalized Hemodialysis Polysulfone Membranes with Improved Hemocompatibility, <i>Polymers</i> , 14(6), 1130
8.	Kausar A., Bocchetta P, Polymer/Graphene Nanocomposite Membranes: Status and Emerging Prospects, <i>Journal of Composites Science</i> , 2022, 6(3), 76
9.	Oprea M., Ficai A., Ilie C., Serbanescu O.S., Voicu S.I., ZINC-LOADED CELLULOSE ACETATE MEMBRANES WITH POTENTIAL BIOMEDICAL APPLICATIONS, <i>UPB Scientific Bulletin Series B Chemistry and Materials Science</i> , 2022, 84(2), 15-30
10.	Danafar H., Salehiabar M., Barsbay M., Nosrati H., Faghfoori Z., Curcumin delivery by modified biosourced carbon-based nanoparticles, <i>Nnomedicine</i> , 2022, 17(2), 95-105
11.	Chae H.R., Kim I.C., Kwon Y.N., Acid-resistance enhancement of thin-film composite membrane using barrier effect of graphene oxide nanosheets, <i>Materials</i> , 2021, 14(12), 3151
12.	Palla-Papavlu A., Voicu S.I., Dinescu M., Sensitive materials and coating technologies for surface acoustic wave sensors, <i>Chemosensors</i> , 2021, 9(5), 105
13.	Bhandari S., Rahaman M., Thermal properties of polymer-graphene composites, <i>Polymer Nanocomposites Containing Graphene Preparation Properties and Application</i> , 2021, 163-181
14.	Oprea, M., Voicu, S.I., Cellulose composites with graphene for tissue engineering applications, 2020, <i>Materials</i> , 13 (23), art. no. 5347, pp. 1-24
15.	Serbanescu, O.S., Voicu, S.I., Thakur, V.K., Polysulfone functionalized membranes: Properties and challenges, 2020, <i>Materials Today Chemistry</i> , 17, art. no. 100302
16.	Oprea, M., Voicu, S.I., Recent advances in applications of cellulose derivatives-based composite membranes with hydroxyapatite, 2020, <i>Materials</i> , 13 (11), art. no. 2481

17.	Alamusi, Xiao, T., Wu, L., Liu, C., Lei, L., Liu, Y., Ning, H., Hu, R., Liu, H., Bin Gu, Yuan, W., Influences of preparation process on electrical conductivity and thermal expansion coefficient of epoxy/graphene nanocomposites, (2019) <i>Materials Research Express</i> , 6 (11), art. no. 116318
18.	Nejad, S.A., Majzoobi, G.H., Sabet, S.A.R., Role of sonication time on mechanical properties of graphene oxide/epoxy nanocomposites under quasi-static loading conditions, (2019) <i>Iranian Polymer Journal (English Edition)</i> , 28 (10), pp. 895-908
19.	Majzoobi, G.H., Nejad, S.H.A., Sabet, S.A.R., Role of graphene oxide and sonication time on mechanical properties of epoxy nanocomposites at high strain rate, (2019) <i>Materials Research Express</i> , 6 (6), art. no. 065063
20.	Becheru, D.F., Vlăsceanu, G.M., Banciu, A., Vasile, E., Ioniță, M., Burns, J.S. Optical graphene-based biosensor for nucleic acid detection; influence of graphene functionalization and ionic strength (2018) <i>International Journal of Molecular Sciences</i> , 19 (10), art. no. 3230,.
21.	Muhulet, A., Miculescu, F., Voicu, S.I., Schütt, F., Thakur, V.K., Mishra, Y.K., Fundamentals and scopes of doped carbon nanotubes towards energy and biosensing applications, (2018) <i>Materials Today Energy</i> , 9, pp. 154-186
22.	Badrinezhad, L., Ghasemi, S., Azizian-Kalandaragh, Y., Nematollahzadeh, A. Preparation and characterization of polysulfone/graphene oxide nanocomposite membranes for the separation of methylene blue from water, (2018) <i>Polymer Bulletin</i> , 75 (2), pp. 469-484.
23.	Ionita, M., Crica, L.E., Vasile, E., Dinescu, S., Pandeale, M.A., Costache, M., Haugen, H.J., Iovu, H. Effect of carboxylic acid functionalized graphene on physical-chemical and biological performances of polysulfone porous films, (2016) <i>Polymer (United Kingdom)</i> , 92, pp. 1-12.
24.	Thakur, V.K., Voicu, S.I., Recent advances in cellulose and chitosan based membranes for water purification: A concise review, (2016) <i>Carbohydrate Polymers</i> , 146, pp. 148-165
25.	Miculescu, M., Thakur, V.K., Miculescu, F., Voicu, S.I., Graphene-based polymer nanocomposite membranes: a review(2016) <i>Polymers for Advanced Technologies</i> , 27 (7), pp. 844-859
26.	Ammar, A., Al-Enizi, A.M., AlMaadeed, M.A., Karim, A. Influence of graphene oxide on mechanical, morphological, barrier, and electrical properties of polymer membranes (2016) <i>Arabian Journal of Chemistry</i> , 9 (2), pp. 274-286.
27.	Phelane, L., Hamna, S., Baker, P., Iwuoha, E. Electrochemical transduction at modified boron doped diamond interfaces (2016) <i>Journal of Nano Research</i> , 44, pp. 51-62.
28.	Mokkapati, V.R.S.S., KoseogluImer, D.Y., Yilmaz, N., Ozguz, V., Koyuncu, I. Protein mediated textile dye filtration using graphene oxide-polysulfone composite membranes, (2015) <i>RSC Advances</i> , 5 (87), pp. 71011-71021.
29.	Pal, A., Kar, S., Debnath, A.K., Aswal, D.K., Bindal, R.C., Tewari, P.K. Reinforcement of nanostructured reduced graphene oxide: A facile approach to develop high-performance nanocomposite ultrafiltration membranes minimizing the trade-off between flux and selectivity (2015) <i>RSC Advances</i> , 5 (58), pp. 46801-46816.
30.	Voicu, S.I., The influence of filler in composite cellulose acetate membranes for proteins recovery, (2016) <i>Key Engineering Materials</i> , 695, pp. 267-272
31.	Voicu, S.I., Muhulet, A., Antoniac, I.V., Corobea, M.S., Cellulose derivatives based membranes for biomedical applications, (2014) <i>Key Engineering Materials</i> , 638, pp. 27-30
32.	Albu R.M., Functionalized Polysulfone-Metal Complexes, Functionalized Polysulfones Synthesis Characterization and Applications, 2015, 201-231
<b>A.M. Pandeale, M.Ionita, L. Crica, E. Vasile, H. Iovu, Novel Chitosan-poly(vinyl alcohol)/graphene oxide biocomposites 3D porous scaffolds, Composites Part B-Engineering, 126(2017), 81-87</b>	
1.	Sharma N., Aakansha Siddiqui M.G., Quraishi A.M., Alvi P.A., Structural, Optical, and Electrical Characteristics of Synthesized Novel and Flexible PCCe Polymer Nanocomposites for EMI Shielding Applications, <i>Journal of Applied Polymer Science</i> , 2025, 142(18), e56835
2.	Negi A., Pandey M., Yassin M.T., Al-Otibi F.O., Sharma S., Wastewater remediation and enhanced energy harvesting by La-doped in rGO embedded with chitosan decorated gum rosin matrix, <i>International Journal of Biological Macromolecules</i> , 2025, 309, 142525
3.	Salama A.M., Shemis M.A., Sharma B.P., Zhang Q., Lu J., Curcumin@ graphene oxide/chitosan/arginine hydrogel: A novel approach to treat Candida periprosthetic joint infections, <i>International Journal of Biological Macromolecules</i> , 2025, 307, 141966
4.	Joshi T, Joshi H., Bhatt S., Pancholi M., Bagchi D., Biopolymer composite matrix structure nano architectonics and its key role in regulating mechanical tunability for biomedical applications, <i>Journal of Polymer Research</i> , 2025, 32(4), 130
5.	Zhai T., Li X., Chan Z., Amidpour M., Chen Z., Composite fabric with high photoabsorption and conductivity for efficient all-weather seawater desalination under low voltage, <i>Chemical Engineering Journal</i> , 2025, 506, 159892
6.	Rajasekaran S., Kungumaraj K.K., Mani D., Mani P., Chitosan/Guar gum – Graphene oxide porous scaffolds for tissue engineering applications, <i>Materials Today Communications</i> , 2024, 41, 110288

7.	Ahadi N., Bakhtiari O., Preparation and optimization of nanocomposite membranes for ethanol dehydration via pervaporation by using response surface methodology, <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2024, 165, 105790
8.	Unnikrishnan G., Muthuswamy S., Kolanthai E., Varghese R., Ayyasamy S., Synthesis and analysis of multifunctional graphene oxide/Ag <sub>2</sub> O-PVA/chitosan hybrid polymeric composite for wound healing applications, <i>International Journal of Biological Macromolecules</i> , 2024, 277, 134301
9.	Jalageri M.B., Kumar G.C.M., Graphene oxide reinforced polyvinyl alcohol/Chitosan composite hydrogel for cartilage regeneration, <i>Polymer Bulletin</i> , 2024, 81(12), 10915-10932
10.	Sharma R., Kumar H., Yadav D., Deswal Y., Sharma A.K., Synergistic advancements in nanocomposite design: Harnessing the potential of mixed metal oxide/reduced graphene oxide nanocomposites for multifunctional applications, <i>Journal of Energy Storage</i> , 2024, 93, 112317
11.	Mohammadzadeh H., Jafari R., Soltani M., Nano hydroxyapatite architectonics to control the morphological, mechanical, and rheological properties of CH-rfGO-HA scaffolds for bone tissue, <i>Applied Physics A Materials Science and Processing</i> , 2024, 130(7), 466
12.	Ali A.M., Elshabrawy S.M., Kamoun E.A., Evaluation of the mechanical properties and degradation behavior of chitosan-PVA-graphene oxide nanocomposite scaffolds in vitro, <i>Journal of Taibah Univeristy of Medical Sciences</i> , 2024, 19(3), 585-597
13.	Sadeghi-Ghadikolaei M., Vasheghani-Farahani E., Bagheri F., Mellati A., Karimizade A., Fabrication of 3D chitosan/polyvinyl alcohol/brushite nanofibrous scaffold for bone tissue engineering by electrospinning using a novel falling film collector, <i>International Journal of Biological Macromolecules</i> , 2024, 272, 132874
14.	Unnikrishnan G., Joy A., Megha M., Kolanthai E., Muthuswamy S., PVA-CS polymeric system conjugated with GO-ZnO-Ag <sub>2</sub> O ternary composite - a multifunctional nanocomposite for wound healing applications, <i>New Journal of Chemistry</i> , 2024, 48(19), 8908-8925
15.	Bagheri F., Saudi A., Bidram E., Zarrabi A., Rafienia M., Fabrication of 3D porous polyurethane-graphene oxide scaffolds by a sequential two-step processing for non-load bearing bone defects, <i>Physical Scripta</i> , 2024, 99(4), 045023
16.	Ragab H.M., Diab N.S., Obeidat S.T., Farea M.O., Morsi M.A., Improving the optical, thermal, mechanical, electrical properties and antibacterial activity of PVA-chitosan by biosynthesized Ag nanoparticles: Eco-friendly nanocomposites for food packaging applications, <i>International Journal of Biological Macromolecules</i> , 2024, 264, 130668
17.	Unnikrishnan G., joy A. Megha M., Kolanthai E., Muthuswamy S., Preparation and characterizations of antibacterial and electroactive polymeric composites for wound healing applications, <i>Polymer Composites</i> , 2024, 45(1), 267-285
18.	Kim Y., Patel R., Kulkarni C.V., Patel M., Graphene-Based Aerogels for Biomedical Application, <i>Gels</i> , 2023, 9(12), 967
19.	Dhiman N.K., Reddy M.S., Agnihotri S., Graphene oxide reinforced chitosan/polyvinyl alcohol antibacterial coatings on stainless steel surfaces exhibit superior bioactivity without human cell cytotoxicity, <i>Colloids and Surfaces B Biointerfaces</i> , 2023, 227, 113362
20.	Trembecka-Wojciga K., Sobczak J.J., Sobczak N., A comprehensive review of graphene-based aerogels for biomedical applications. The impact of synthesis parameters onto material microstructure and porosity, <i>Archives of Civil and Mechanical Engineering</i> , 2023, 23(2), 133
21.	Borhade D.D., Nangare S.N., Patil D.A., Patil G.S., Patil G.B., Preparation of pifrenidone loaded chitosan-polyvinyl alcohol-graphene oxide-based scaffold: Spectroscopical characterizations and antibacterial activity, <i>Journal of Drug delivery Science and Technology</i> , 2023, 82, 104325
22.	Chen Y., Etxabide A., Seyfoddin A., Romezani M., Fabrication and characterisation of poly(vinyl alcohol)/chitosan scaffolds for tissue engineering applications, <i>Materials Today Proceedings</i> , 2023
23.	Chang C.H., Lin C.Y., Chang C.H., Huang Y.T., Liao Y.S., Enhanced biomedical applicability of ZrO <sub>2</sub> -SiO <sub>2</sub> ceramic composites in 3D printed bone scaffolds, <i>Scientific Reports</i> , 2022, 12(1), 6845
24.	Demir D., Ozdemir S., Ceylan S., Sakim B., Bolgen N., Electrospun Composite Nanofibers Based on Poly ( $\epsilon$ -Caprolactone) and <i>Styrax Liquidus</i> ( <i>Liquidambar orientalis</i> Miller) as a Wound Dressing: Preparation, Characterization, Biological and Cytocompatibility Results, <i>Journal of Polymers and the Environment</i> , 2022, 30(6), 2462-2473
25.	Abdel Maksoud M.I.A., Awed A.S., Sokary R., Bekhit M., Effect of gamma irradiation on the free-standing polyvinyl alcohol/chitosan/Ag nanocomposite films: insights on the structure, optical, and dispersion properties, <i>Applied Physics A Materials Science and Processing</i> , 2021, 127(8), 619
26.	Murugesan S., Scheibel T., Chitosan-based nanocomposites for medical applications, <i>Journal of Polymer Science</i> , 2021, 59(15), 1610-1642

27.	Berrio, M.E., Oñate, A., Salas, A., Fernández, K., Meléndrez, M.F., Synthesis and applications of graphene oxide aerogels in bone tissue regeneration: a review, (2021) <i>Materials Today Chemistry</i> , 20, art. no. 100422
28.	Chen, L., Tang, Y., Zhao, K., Liu, J., Jiang, X., Sun, Y., Wu, Z, Rapid Self-Expansion Behavior of the PMMA-Based Bone Cement with P(MMA-AA)-GO Nano-Units(2021) <i>Macromolecular Materials and Engineering</i> , 306 (4), art. no. 2000749
29.	Lungu, A., Cernencu, A.I., Vlasceanu, G.M., Florea, N.M., Ionita, M., Iovu, H., 3D POSS cages decorated 2D graphenic sheets: A versatile platform for silicon-carbonaceous nano-additives design, (2021) <i>Composites Part B: Engineering</i> , 207, art. no. 108578
30.	De Armentia, S.L., Del Real, J.C., Paz, E., Dunne, N., Advances in biodegradable 3D printed scaffolds with carbon-based nanomaterials for bone regeneration, 2020, <i>Materials</i> , 13 (22), art. no. 5083, pp. 1-49.
31.	Ying, Y., Wu, Y., Huang, J., Preparation and characterization of chitosan/poly(vinyl alcohol)/graphene oxide films and studies on their antibiofilm formation activity, 2020, <i>Journal of Biomedical Materials Research - Part A</i> , 108 (10), pp. 2015-2022
32.	Chen, S., Wang, H., Jian, Z., Fei, G., Qian, W., Luo, G., Wang, Z., Xia, H., Novel Poly(vinyl alcohol)/Chitosan/Modified Graphene Oxide Biocomposite for Wound Dressing Application,2020, <i>Macromolecular Bioscience</i> , 20 (3), art. no. 1900385
33.	Lin, D., Yang, J., Deng, Y., Dai, M., Zheng, X., Peng, C., Fabrication of spherical hydrogel adsorbents via one-step titration-gel method for waste water treatment-a review [滴定-凝胶法制备球形水凝胶吸附材料及其在废水处理中的应用], 2020, <i>HuagongXuebao/CIESC Journal</i> , 71 (3), pp. 914-922
34.	Li, J., Liu, X., Crook, J.M., Wallace, G.G., 3D graphene-containing structures for tissue engineering, (2019) <i>Materials Today Chemistry</i> , 14, art. No. 100199
35.	Bourakadi, K.E., Merghoub, N., Fardioui, M., Mekhzoum, M.E.M., Kadmiri, I.M., Essassi, E.M., Qaiss, A.E.K., Bouhfid, R., Chitosan/polyvinyl alcohol/thiabendazolum-montmorillonite bio-nanocomposite films: Mechanical, morphological and antimicrobial properties, (2019) <i>Composites Part B: Engineering</i> , 172, pp. 103-110
36.	Vlăsceanu, G.M., Iovu, H., Ioniță, M., Graphene inks for the 3D printing of cell culture scaffolds and related molecular arrays(2019) <i>Composites Part B: Engineering</i> , 162, pp. 712-723
37.	Chen, G., Chen, N., Wang, Q, Fabrication and properties of poly(vinyl alcohol)/β-tricalcium phosphate composite scaffolds via fused deposition modeling for bone tissue engineering, (2019) <i>Composites Science and Technology</i> , 172, pp. 17-28
38.	Chen, G., Chen, N., Wang, Q, Preparation of poly (vinyl alcohol)/ionic liquid composites with improved processability and electrical conductivity for fused deposition modeling(2018) <i>Materials and Design</i> , 157, pp. 273-283
39.	Song, P., Zhou, C., Fan, H., Zhang, B., Pei, X., Fan, Y., Jiang, Q., Bao, R., Yang, Q., Dong, Z., Zhang, X., Novel 3D porous biocomposite scaffolds fabricated by fused deposition modeling and gas foaming combined technology, (2018) <i>Composites Part B: Engineering</i> , 152, pp. 151-159
40.	Ahmad, H., Fan, M., Hui, D., Graphene oxide incorporated functional materials: A review(2018) <i>Composites Part B: Engineering</i> , 145, pp. 270-280
41.	Meng, F., Zhang, Y., Xiong, Z., Wang, G., Li, F., Zhang, L., Mechanical, hydrophobic and thermal properties of an organic-inorganic hybrid carrageenan-polyvinyl alcohol composite film(2018) <i>Composites Part B: Engineering</i> , 143, pp. 1-8
42.	Wu, J., Chen, N., Wang, Q., Preparation of novel thermoplastic poly(vinyl alcohol) with improved processability for fused deposition modeling(2018) <i>Polymers for Advanced Technologies</i> , 29 (5), pp. 1447-1455
43.	Liu, P., Chen, W., Bai, S., Wang, Q., Duan, W., Facile preparation of poly(vinyl alcohol)/graphene oxide nanocomposites and their foaming behavior in supercritical carbon dioxide, (2018) <i>Composites Part A: Applied Science and Manufacturing</i> , 107, pp. 675-684
44.	Pieklarz, K., Tylman, M., Modrzejewska, Z., Applications of Chitosan–Graphene oxide nanocomposites in medical science: A review(2018) <i>Progress on Chemistry and Application of Chitin and its Derivatives</i> , 23, pp. 5-24
45.	Yang, K., Zhou, C., Fan, H., Fan, Y., Jiang, Q., Song, P., Fan, H., Chen, Y., Zhang, X., Bio-functional design, application and trends in metallic biomaterials (2018) <i>International Journal of Molecular Sciences</i> , 19 (1), art. no. 24
	<b>A.M.Pandele, M. Ionita, A. Lungu, E. Vasile, C. Zaharia, H. Iovu, Porous chitosan/graphene oxide biocomposites for tissue engineering, <i>Polymer Composites</i>, 38 (2017), 363-370, 10.1002/pc.23594</b>
1.	Babakhani A., Peighambaroust S.J., Ghanhremani-Nasab M., Peighambaroust N.S., Fabrication of biodegradable nanocomposite scaffolds with hydroxyapatite, magnetic clay, and graphene oxide for bone tissue engineering, <i>Scientific reports</i> , 2025, 15(1), 22235

2.	Mayakrishnan V., Venkatesan R., Alrashed M.M., Vaidhyathan R., Madhavan A.A., Effect of Silicon Carbide Nanoparticles on the Mechanical, Barrier, Antibacterial and Biodegradable Properties of Pullulan/Lignin Bio Nanocomposite Blends for Food Packaging Applications, <i>Silicon</i> , 2025, 17(5), 1059-1075
3.	Khan S., Rahman N.U., Alam S., Shah L.A., Ahmad F., Removal of basic fuchsin from aqueous solution using polyacrylamide and gellan gum-based hydrogels, <i>Chemical Papers</i> , 2024, 78(9), 3569-3587
4.	Tavakoli M., Najafinezhad A., Mirhaj M., Kazemi N., Nasiri-Harchegani S., Graphene oxide-encapsulated baghdadite nanocomposite improved physical, mechanical, and biological properties of a vancomycin-loaded PMMA bone cement, <i>Journal of Biomaterials Science polymer Edition</i> , 2024, 35(6), 823-850
5.	Gholap A.D., Rojekar S., Kapare H.S., Prajapati M.K., Chitosan scaffolds: Expanding horizons in biomedical applications, <i>Carbohydrate Polymers</i> , 2024, 323, 121394
6.	Tavakoli M., Emadi R., Salehi H., Labbaf S., Varshosaz J., Incorporation of graphene oxide as a coupling agent in a 3D printed polylactic acid/hardystonite nanocomposite scaffold for bone tissue regeneration applications, <i>International Journal of Biological Macromolecules</i> , 2023, 253, 126510
7.	Apostu A.M., Sufaru .G., Tanculescu O., Ciocan Pendefunda a.A., Solomon S.M., Can Graphene Pave the Way to Successful Periodontal and Dental Prosthetic Treatments? A Narrative Review, <i>Biomedicine</i> , 2023, 11(9), 2354
8.	Puza F., Rostami S., Ozcolak-Aslan B., Jandt K.D., Garipcan B., Anisotropic Bone Surface Topography Mimicked Chitosan/Graphene Oxide Membranes, <i>Advanced Engineering Materials</i> , 2023, 25(1), 2200777
9.	Feng W., Wang Z., Shear-thinning and self-healing chitosan-graphene oxide hydrogel for hemostasis and wound healing, <i>Carbohydrate polymers</i> , 2022, 294, 119824
10.	Cernencu A.I., Dinu A.I., Stancu I.C., Lungu A., Iovu H., Nanoengineered biomimetic hydrogels: A major advancement to fabricate 3D-printed constructs for regenerative medicine, <i>Biotechnology and Bioengineering</i> , 2022, 119(3), 762-783
11.	Feng W., Wang Z., Biomedical applications of chitosan-graphene oxide nanocomposites, <i>Iscience</i> , 2022, 25(1), 103629
12.	Morandi S., Hamed H., Tonelli a.E., King M.W., Chitosan/graphene oxide composite films and their biomedical and drug delivery applications: A review, <i>Applied Sciences Switzerland</i> , 2021, 11(17) 7776
13.	Tavakoli, M., Bakhtiari, S.S.E., Karbasi, S., Incorporation of chitosan/graphene oxide nanocomposite in to the PMMA bone cement: Physical, mechanical and biological evaluation, 2020, <i>International Journal of Biological Macromolecules</i> , 149, pp. 783-793
14.	Tavakoli, M., Karbasi, S., SoleymaniEil Bakhtiari, S., Evaluation of physical, mechanical, and biodegradation of chitosan/graphene oxide composite as bone substitutes, 2020, <i>Polymer-Plastics Technology and Materials</i> , 59 (4), pp. 430-440
15.	Palmieri, V., Lattanzi, W., Perini, G., Augello, A., Papi, M., De Spirito, M., 3D-printed graphene for bone reconstruction, 2020, <i>2D Materials</i> , 7 (2), art. no. 022004
16.	Jabbari, F., Hesarak, S., Houshmand, B., The physical, mechanical, and biological properties of silk fibroin/chitosan/reduced graphene oxide composite membranes for guided bone regeneration, (2019) <i>Journal of Biomaterials Science, Polymer Edition</i> , 30 (18), pp. 1779-1802
17.	Correa, E., Moncada, M.E., Gutiérrez, O.D., Vargas, C.A., Zapata, V.H., Characterization of polycaprolactone/rGO nanocomposite scaffolds obtained by electrospinning, (2019) <i>Materials Science and Engineering C</i> , 103, art. no. 109773
18.	Sivashankari, P.R., Prabakaran, M., Bioactive nanomaterials/chitosan composites as scaffolds for tissue regeneration, (2019) <i>Polysaccharide Carriers for Drug Delivery</i> , pp. 559-584
19.	Gaidukovs S., Zukulis E., Bochkov I., Vaivodiss R., Gaidukova G., Enhanced mechanical, conductivity and dielectric characteristics of ethylene vinyl acetate copolymer composite filled with carbon nanotubes, <i>Journal of Thermoplastic Composite Materials</i> , 2018, 31 (9), 1161-1180
20.	Cheng X., Wan Q., Pei X., Graphene Family Materials in Bone Tissue Regeneration: Perspectives and Challenges, <i>Nanoscale Research Letter</i> , 2018, 12, 289
21.	Saravanan, S., Sareen, N., Abu-El-Rub, E., Ashour, H., Sequiera, G.L., Ammar, H.I., Gopinath, V., Shamaa, A.A., Sayed, S.S.E., Moudgil, M., Vadivelu, J., Dhingra, S., Graphene Oxide-Gold Nanosheets Containing Chitosan Scaffold Improves Ventricular Contractility and Function After Implantation into Infarcted Heart, (2018) <i>Scientific Reports</i> , 8 (1), art. No. 15069
22.	Gaidukovs, S., Zukulis, E., Bochkov, I., Vaivodiss, R., Gaidukova, G., Enhanced mechanical, conductivity, and dielectric characteristics of ethylene vinyl acetate copolymer composite filled with carbon nanotubes, (2018) <i>Journal of Thermoplastic Composite Materials</i> , 31 (9), pp. 1161-1180
23.	Hermenean, A., Codreanu, A., Herman, H., Balta, C., Rosu, M., Mihali, C.V., Ivan, A., Dinescu, S., Ionita, M., Costache, M., Chitosan-Graphene Oxide 3D scaffolds as Promising Tools for Bone Regeneration in Critical-Size Mouse Calvarial Defects (2017) <i>Scientific Reports</i> , 7 (1), art. no. 16641

24.	Ioniță, M., Vlăsceanu, G.M., Watzlawek, A.A., Voicu, S.I., Burns, J.S., Iovu, H., Graphene and functionalized graphene: Extraordinary prospects for nanobiocomposite materials, (2017) <i>Composites Part B: Engineering</i> , 121, pp. 34-57
NV. Voicu, LE Crica, AM Pandeale, CM Damian, E. Vasile, M. Ionita, Graphene oxide reinforced gelatin-poly(vinyl alcohol) porous composites for biomedical applications, <i>MaterialePlastice</i> , 53 (2016), 399-405	
1.	Iftime, M.M., Angheloiu, M., Ultrasonication - A Potential method toward chitosan hydrogels, (2020) <i>MaterialePlastice</i> , 57 (2), pp. 67-77
M. Ionita, LE Crica, E. Vasile, S. Dinescu, MA Pandeale, M. Costache, HJ. Haugen, H. Iovu, Effect of carboxylic acid functionalized graphene on physical-chemical and biological performances of polysulfone porous films, <i>Polymer</i> , 92 (2016), 1-12, 10.1016/j.polymer.2016.03.040	
1.	Lv H., Tian X., Feng H., Xiao C., Ji D., Constructing of stable intermediate layers among the positively charged composite nanofiltration membranes for Mg <sup>2+</sup> /Li <sup>+</sup> efficient separation, <i>Separation and Purification Technology</i> , 2025, 379, 134936
2.	Gomes M.C., Mortier C., Haugen H.J., Blaker J.J., Mano J.F., Synergistic effect of proteins and tannic acid-yielding systems with improved mechanical performance for use in load-bearing tissues, <i>Materials Research Express</i> , 2025, 12(7), 075404
3.	Abedi N., Sadeghian A., Kouhi M., Savabi O., Nejatidanesh F., Immunomodulation in Bone Tissue Engineering: Recent Advancements in Scaffold Design and Biological Modifications for Enhanced Regeneration, <i>ACS Biomaterials Science and Engineering</i> , 2025, 11(3), 1269-1290
4.	Haugen H., Bueno J., Hussain B., Osorio R., Sanz M., Comparative study of polymeric nanoparticles and traditional agents in dental implant decontamination, <i>Journal of Applied Biomaterials and Functional Materials</i> , 2025, 23
5.	Mei L., Shi Y., Ding X., Li J., Integrated tetrahydroxyphthalocyanine-coated graphene decorated with ionic liquid-functionalized gold nanoparticles for highly sensitive and selective electrochemical determination of ascorbic acid in fruit juices, <i>Microchemica Acta</i> , 2024, 191(12), 766
6.	Haugen H.J., Coelho D., Tien N.D., Geng T., Blanker J.J., Enhanced chitosan fibres for skin regeneration: solution blow spinning and incorporation with platelet lysate and tannic acid, <i>Materials Research Express</i> , 2024, 11(12), 125401
7.	Vu S., Sij M., Izquierdo R., Graphene-Based Fiber Materials for Gas Sensing Applications: State of the Art Review, <i>Materials</i> , 2024, 17(23), 5825
8.	Costa J.A.S., Oliveira R.V.M., Romao L.P.C., Paranhos C.M., Magnetic Membranes for the Remediation of Oil-Industry Effluents: Efficient Polyaromatic Hydrocarbon Removal and Marine Oil-Spill Cleanup, <i>ACS Es and T Water</i> , 2023, 3(12), 4143-4156
9.	Krishna A.M.S., Ramasubramanian B., Haseen S., Chakraborty S., Dalapati G.K., Functionalized Graphene-Incorporated Cupric Oxide Charge-Transport Layer for Enhanced Photoelectrochemical Performance and Hydrogen Evolution, <i>Catalysts</i> , 2023, 13(4), 785
10.	Swain S.S., Unnikrishnan L., Mohanty S., Nayak S.K., Insight into mechanical, thermal, and chemical stability of polysulfone-based membranes for the separation of O <sub>2</sub> /N <sub>2</sub> , <i>Korean Journal of Chemical Engineering</i> , 2022, 39(3), 785-797
11.	Costa, J.A.S., Sarmiento, V.H.V., Romão, L.P.C., Paranhos, C.M., Removal of polycyclic aromatic hydrocarbons from aqueous media with polysulfone/MCM-41 mixed matrix membranes, 2020, <i>Journal of Membrane Science</i> , 601, art. no. 117912
12.	Ramdzan, N.S.M., Fen, Y.W., Omar, N.A.S., Anas, N.A.A., Daniyal, W.M.E.M.M., Saleviter, S., Zainudin, A.A., Optical and surface plasmon resonance sensing properties for chitosan/carboxyl-functionalized graphene quantum dots thin film, (2019) <i>Optik</i> , 178, pp. 802-812
13.	Manjunatha, G., George, R., Nagesh, S.N., Effect of carboxyl graphene interface in glass fiber reinforced epoxy nanocomposites, (2019) <i>AIP Conference Proceedings</i> , 2057, art. no. 020036
14.	Sharma, S.K., Kaur, H., Kumar, K., Tyagi, M., Deep, A., Synthesis and solar cell application of a composite of Eu-BTB MOF with functionalized graphene (2018) <i>Materials Research Express</i> , 5 (12), art. no. 125501
15.	Jha, S.K., Vasiliev, I., Vibrational Signatures of Carboxylated Graphene: A First-Principles Study (2018) <i>Journal of Physical Chemistry C</i> , 122 (43), pp. 24996-25006
16.	Ioniță, M., Crică, L.E., Voicu, S.I., Dinescu, S., Miculescu, F., Costache, M., Iovu, H., Synergistic effect of carbon nanotubes and graphene for high performance cellulose acetate membranes in biomedical applications (2018) <i>Carbohydrate Polymers</i> , 183, pp. 50-61
17.	Derbali, Z., Fahs, A., Chailan, J.-F., Ferrari, I.V., Di Vona, M.L., Knauth, P., Composite anion exchange membranes with functionalized hydrophilic or hydrophobic titanium dioxide, (2017) <i>International Journal of Hydrogen Energy</i> , 42 (30), pp. 19178-19189
18.	Fu, S., Ma, L., Gan, M., Wang, S., Recent Advances in Preparation of Three-dimensional Graphene and Relevant Composites and Their Applications in Supercapacitors, (2017) <i>CailiaoDaobao/Materials Review</i> , 31 (3), pp. 9-15

<p><b>M. Ionita, AM Pandele, LE Crica, AC Obreja, Preparation and characterization of polysulfone/ammonia-functionalized graphene oxide composite membrane material, <i>High Performance Polymers</i>, 28 (2016), 181-188, 10.1177/0954008315576233</b></p>	
1.	Salah Z., Bhattacharyya S., Cozzolino V., Amar R.B., Chakraborty S., Graphene oxide- polysulfone nanocomposite membranes for diclofenac removal, <i>Emergent Materials</i> , 2025, 8(3), 1671-1685
2.	Rashed S., Basheer C., Isam H.A., Rice Husk-Derived Silicon Carbide Mixed-Matrix Membranes for Enhanced Oil-Water Emulsion Separation, <i>Chemistry an Asian Journal</i> , 2025
3.	Gurbuz B., Baran E., Tahmasebifar A., Yilmaz B., Construction of Aligned Polycaprolactone/Poly(Glycerol Sebacate)/Polysulfone Nanofibrous Scaffolds for Tissue Engineering of the Ventricularis Layer of Heart Valves, <i>polymers for Advanced Technologies</i> , 2024, 35(11), e6629
4.	Borane N., Boddula R., Odedara N., Andhe M., Patel R., Comprehensive review on synthetic methods and functionalization of graphene oxide: Emerging Applications, <i>Nano Structures and Nano Objects</i> , 2024, 39, 101282
5.	Zikalala S.A., Gumbi N.N., Li J., Mamba B.B., Nxumalo E.N., Polymer blending and nanophotocatalyst loading synergy in visible light-driven photocatalytic PES/SPSf mixed matrix membranes, <i>Journal of Polymer Science</i> , 2024, 62(15), 3541-3561
6.	Kobukhno I., Honcharenko D., Stolyarov O., Vaganov G., Tolochko O., The effect of fullerene soot on polymer-metal adhesion in thermoplastic fiber metal laminates, <i>International Journal of Adhesion and Adhesives</i> , 2024, 132, 103680
7.	Sulistiono D.O., Ali B.T.I., Widyanto A.R., Senda S.P., Fansuri H., Crafting the future: Enhancing gas separation with nanoarchitectonics of bimetallic Ni-Co-ZIF-67 in polysulfone-based mixed matrix membranes, <i>Case Studies in Chemical and Environmental Engineering</i> , 2024, 9, 100739
8.	Rodrigues M.S., Moreira F.S., Silva J.G., Cardoso V.L., de Resende M.M., Graphene oxide in the production of ion-exchange membranes for electro dialysis cells, <i>Polymer Bulletin</i> , 2024, 81(5), 4013-4037
9.	Sherif G., Chikov D.I., Tcherdyntsev V.V., Shulga Y.M., Kabachkov E.N., Surface Treatment Effect on the Mechanical and Thermal Behavior of the Glass Fabric Reinforced Polysulfone, <i>Polymer</i> , 2024, 16(6), 864
10.	Ponnamma D., Elgawady Y., Hassan M.K., Alamgir K., Al-Maadeed M.A.A., Electrospun Polysulfone Hybrid Nanocomposite Fibers as Membrane for Separating Oil/Water Emulsion, <i>Water Conservation Science and Engineering</i> , 2023, 8(1), 57
11.	Oor J.Z., Ong C.S., Tan Y.Z., Chew J.W., Fabrication of organic solvent nanofiltration membranes with graphene oxide - Enhanced covalent organic framework via interfacial polymerization, <i>Journal of Membrane Science</i> , 2023, 683, 121772
12.	Sheydaei M., Edraki M., Radeghi Mehrjou S.M., Anticorrosion and Antimicrobial Evaluation of Sol-Gel Hybrid Coatings Containing Clitoria ternatea Modified Clay, <i>Gels</i> , 2023, 9(6), 490
13.	Hassan S.U., Shafique S., Palvasha B.A., Hussain M., Park Y.K., Photocatalytic degradation of industrial dye using hybrid filler impregnated poly-sulfone membrane and optimizing the catalytic performance using Box-Behnken design, <i>Chempisphere</i> , 2023, 313, 137418
14.	Choudhury R.R., Cohil J.M., Raval H., Facile approach for novel TFC-NF membranes preparation using water soluble poly(vinyl alcohol-co-styrenesulfonic acid) and their characterizations, <i>Separation Science and technology Philadelphia</i> , 2023, 58(15-16), 2824-2836
15.	Rehan Z.A., Zahid M., Kanwal S., Jamil A., Zubair Z., Optimization of carboxylated graphene oxide (C-GO) content in polymer matrix: Synthesis, characterization, and application study, <i>Chemosphere</i> , 2023, 310, 136900
16.	Humbe S.S., Joshi G.M., Deshmukh R.R., Synergetic Effect of Plasma-Treated Graphene Oxide/Polymer Blends for Electrostatic Dissipative Applications, <i>Journal of Applied Polymer Science</i> , 2022, 139(45), e53113
17.	Sayed M.M., Abdel-Hakim M., Mahross M.H., Aly K.I., Synthesis, physico-chemical characterization, and environmental applications of meso porous crosslinked poly (azomethine-sulfone)s, <i>Scientific Reports</i> , 2022, 12(1), 12878
18.	Saif-Ur-Rehman, Zaman M. K. U., Waseem M.A., Jamal M., Saeed U., Deep eutectic solvent functionalized mesoporous silica SBA-15 based mixed matrix polymeric membranes for mitigation of CO <sub>2</sub> (Extended Version), <i>Journal of Engineering Research Kuwait</i> , 2022, 10
19.	Sasikumar B., Arthanareeswaran G., Construction of selective gas permeation channels in polymeric membranes using nanocage tuned ionic liquid/MIL-53 (Al) filler nanoparticles for effective CO <sub>2</sub> separation, <i>Journal of Natural Gas Science and Engineering</i> , 2022, 106, 104728
20.	Swain S.S., Unnikrishnan L., Mohanty S., Nayak S.K., Insight into mechanical, thermal, and chemical stability of polysulfone-based membranes for the separation of O <sub>2</sub> /N <sub>2</sub> , <i>Korean Journal of Chemical Engineering</i> , 2022, 39(3), 785-797

21.	Nallayagari A.R., Sgrecci E., Di Vona M.L., Vacandio F., Knauth P., Nanostructured, Metal-Free Electrodes for the Oxygen Reduction Reaction Containing Nitrogen-Doped Carbon Quantum Dots and a Hydroxide Ion-Conducting Ionomer, <i>Molecules</i> , 2022, 27(6), 1832
22.	Lasisi K.H., Zhang K., Polyamine-based thin-film composite nanofiltration membrane embedded with catalytic chemical additive for enhanced separation performance and acid stability, <i>Journal of Membrane Science</i> , 2022, 644, 120155
23.	Maria Mahimai B., Kulasekaran P., Deivanayagam P., Novel polysulfone/sulfonated polyaniline/niobium pentoxide polymer blend nanocomposite membranes for fuel cell applications, <i>Journal of Applied Polymer Science</i> , 2021, 138(41), 51207
24.	Orabi A.H., Abdelhamid A.E., Salem H.M., Ismaiel D.A., Uranium removal using composite membranes incorporated with chitosan grafted phenylenediamine from liquid waste solution, <i>Cellulose</i> , 2021, 3703-3721
25.	Almuhtaseb R.M., Awadallah F.A., Al-Muhtaseb S.A., Khraisheh M., Influence of casting solvents on co <sub>2</sub> /ch <sub>4</sub> separation using polysulfone membranes, <i>Membranes</i> , 2021, 11(4), 286
26.	Zambare R.S., Nemade P.R., Graphene and its derivatives for environmental applications, <i>Functionalized Nanomaterials based Devices for Environmental Applications</i> , 2021, 219-259
27.	Karami P., Khorshidi B., Shamaei L., Soares J.B.P., Sadrzadeh M., Nanodiamond-Enabled Thin-Film Nanocomposite Polyamide Membranes for High-Temperature Water Treatment, <i>ACS Applied Materials and Interfaces</i> , 2020, 12(47) 53274-53285
28.	Sainath K., Modi A., Bellare J., In-situ growth of zeolitic imidazolate framework-67 nanoparticles on polysulfone/graphene oxide hollow fiber membranes enhance CO <sub>2</sub> /CH <sub>4</sub> separation, <i>Journal of Membrane Science</i> , 2020, 614, 118506
29.	Nagar H., Aniya V., Mondal P., In-situ growth of zeolitic imidazolate framework-67 nanoparticles on polysulfone/graphene oxide hollow fiber membranes enhance CO <sub>2</sub> /CH <sub>4</sub> separation, <i>Renewable Energy</i> , 2020, 160, 1036-1047
30.	Kong, S., Lim, M.-Y., Shin, H., Baik, J.-H., Lee, J.-C., High-flux and antifouling polyethersulfone nanocomposite membranes incorporated with zwitterion-functionalized graphene oxide for ultrafiltration applications, 2020, <i>Journal of Industrial and Engineering Chemistry</i> , 84, pp. 131-140
31.	Sutrisna, P.D., Hadi, R.P., Siswanto, J., Prabowo, G.J., The co <sub>2</sub> /ch <sub>4</sub> separation potential of zif-8/polysulfone mixed matrix membranes for biogas upgradation process, 2020, <i>International Journal of Renewable Energy Development</i> , 10 (2), pp. 213-219
32.	Sutrisna, P.D., Hadi, R.P., Siswanto, J., Prabowo, G.J., The co <sub>2</sub> /ch <sub>4</sub> separation potential of zif-8/polysulfone mixed matrix membranes for biogas upgradation process, (2020) <i>International Journal of Renewable Energy Development</i> , 10 (2), pp. 213-219
33.	Peña-Bahamonde, J., San-Miguel, V., Baselga, J., Fernández-Blázquez, J.P., Gedler, G., Ozisik, R., Cabanelas, J.C., Effect of polysulfone brush functionalization on thermo-mechanical properties of melt extruded graphene/polysulfone nanocomposites, (2019) <i>Carbon</i> , 151, pp. 84-93
34.	Correa, E., Moncada, M.E., Gutiérrez, O.D., Vargas, C.A., Zapata, V.H., Characterization of polycaprolactone/rGO nanocomposite scaffolds obtained by electrospinning, (2019) <i>Materials Science and Engineering C</i> , 103, art. no. 109773
35.	Anastasiou, S., Bhoria, N., Pokhrel, J., Kumar Reddy, K.S., Srinivasakannan, C., Wang, K., Karanikolos, G.N., Metal-organic framework/graphene oxide composite fillers in mixed-matrix membranes for CO <sub>2</sub> separation (2018) <i>Materials Chemistry and Physics</i> , 212, 513-522
36.	Badrinezhad, L., Ghasemi, S., Azizian-Kalandaragh, Y., Nematollahzadeh, A., Preparation and characterization of polysulfone/graphene oxide nanocomposite membranes for the separation of methylene blue from water (2018) <i>Polymer Bulletin</i> , 75 (2), 469-484
37.	Zhan, Y., Long, Z., Wan, X., He, Y., Liu, X., Exfoliated graphite nanoplatelets/poly(arylene ether nitrile) nanocomposites: In situ synthesis, characterization, and enhanced properties, (2017) <i>High Performance Polymers</i> , 29 (10), pp. 1121-1129
38.	Liu, Y., Ai, Y., Huo, P., Huang, H., Gu, J., An effective approach to fabrication of antifouling ultrafiltration membrane based on zwitterionic polyimide, (2017) <i>High Performance Polymers</i> , 29 (9), pp. 1006-1015
39.	Ioniță, M., Vlăsceanu, G.M., Watzlawek, A.A., Voicu, S.I., Burns, J.S., Iovu, H., Graphene and functionalized graphene: Extraordinary prospects for nanobiocomposite materials, (2017) <i>Composites Part B: Engineering</i> , 121, pp. 34-57
	MD. Ionita, S. Vizireanu, SD Stoica, M. Ionita, AM. Pandele, A. Cucu, I. Stamatina, LC Nistor, G. Dinescu, Functionalization of carbon nanowalls by plasma jet in liquid treatment, <i>European Physical Journal D</i> , 70 (2016), 31, 10.1140/epjd/e2016-60499-8
1.	Norouzi A., Chapalaghi M., Hosseinkhani A., Arabloo nareh A., Grossule V., Effect of surface engineering of nanofillers using plasma-treated water for carbon dioxide capture in mixed matrix membranes: Experimental and molecular dynamics, <i>Chemical Engineering and Processing Process Intensification</i> , 2024, 201, 109828

2.	Wattanawikkam C., Bootchanont A., Barnthip N., Kachayut K., Porhai R., DISCHARGE DUTY CYCLES EFFECTS OF 20 KHZ AIR ATMOSPHERIC PRESSURE PLASMA JET ON METHYLENE BLUE SOLUTION DEGRADATION, <i>Suranaree Journal of Science and Technology</i> , 2023, 30(2), 010204
3.	Hung C.M., Chen C.W., Huang C.P., Sheu D.S., Dong C.D., Metal-free catalysis for organic micropollutant degradation in waste activated sludge via poly(3-hydroxybutyrate) biopolymers using <i>Cupriavidus</i> sp. L7L coupled with peroxymonosulfate, <i>Bioresource Technology</i> , 2022, 361, 127680
4.	Yehia S.A., Petrea N., Grigoriu N., Gingham R.E., Dinescu G., Organophosphorus toxic compounds degradation in aqueous solutions using single filament dielectric barrier discharge plasma jet source, <i>Journal of Water Process Engineering</i> , 2022, 46, 102637
5.	Gerber I.C., Mihaila I., Pohoata V., Topala I., Evolution of Electrical and Optical Parameters of a Helium Plasma Jet in Interaction with Liquids, <i>IEEE Transactions on Plasma Science</i> , 2021, 49(2), 557-562
6.	Rahmadiawan D., Aslfattahi N., Nasruddin N., Arifuzzaman A., Mohammed H.A., MXene Based Palm Oil Methyl Ester as an Effective Heat Transfer Fluid, <i>Journal of Nano Research</i> , 2021, 68, 17-34
7.	Gerber, I.C., Mihaila, I., Pohoata, V., Topala, I., Evolution of Electrical and Optical Parameters of a Helium Plasma Jet in Interaction with Liquids, (2021) <i>IEEE Transactions on Plasma Science</i> , 49 (2), art. no. 9146697, pp. 557-562
8.	Yehia, S.A., Zarif, M.E., Bitu, B.I., Teodorescu, M., Carpen, L.G., Vizireanu, S., Petrea, N., Dinescu, G., Development and Optimization of Single Filament Plasma Jets for Wastewater Decontamination, 2020, <i>Plasma Chemistry and Plasma Processing</i> , 40 (6), pp. 1485-1505
9.	Correa, E., Moncada, M.E., Gutiérrez, O.D., Vargas, C.A., Zapata, V.H., Characterization of polycaprolactone/rGO nanocomposite scaffolds obtained by electrospinning, (2019) <i>Materials Science and Engineering C</i> , 103, art. no. 109773
10.	Rezaei, F., Nikiforov, A., Morent, R., De Geyter, N., Plasma Modification of Poly Lactic Acid Solutions to Generate High Quality Electrospun PLA Nanofibers (2018) <i>Scientific Reports</i> , 8 (1), art. no. 2241
11.	Vizireanu, S., Panaitescu, D.M., Nicolae, C.A., Frone, A.N., Chiulan, I., Ionita, M.D., Satulu, V., Carpen, L.G., Petrescu, S., Birjega, R., Dinescu, G., Cellulose defibrillation and functionalization by plasma in liquid treatment (2018) <i>Scientific Reports</i> , 8 (1), art. no. 15473
12.	Du, J., Liu, Z., Bai, C., Li, L., Zhao, Y., Wang, L., Pan, J., Concentration distributions and reaction pathways of species in the mass transfer process from atmospheric pressure plasma jet to water (2018) <i>European Physical Journal D</i> , 72 (10), art. no. 179
13.	Jirásek, V., Stehlik, Š., Štenclová, P., Artemenko, A., Rezek, B., Kromka, A., Hydroxylation and self-assembly of colloidal hydrogenated nanodiamonds by aqueous oxygen radicals from atmospheric pressure plasma jet (2018) <i>RSC Advances</i> , 8 (6637681-37692)
14.	Panaitescu, D.M., Vizireanu, S., Nicolae, C.A., Frone, A.N., Casarica, A., Carpen, L.G., Dinescu, G., Treatment of nanocellulose by submerged liquid plasma for surface functionalization(2018) <i>Nanomaterials</i> , 8 (7), art. no. 467
	<b>A.M. Pandele, M. Ionita, L. Crica, D. Dinescu, M. Costache, H. Iovu, Synthesis, characterization, and in vitro studies of graphene oxide/chitosan-polyvinyl alcohol films, <i>Carbohydrate Polymers</i>, 102(2014), 813-820, 10.1016/j.carbpol.2013.10.085.</b>
1.	Panda P., Mahanta R.K., Das S., Plasma-Polymerized PVA–Pectin Composites for Surface Modification Using Ar and O <sub>2</sub> Cold Plasma, <i>Journal of Bio and Tribo Corrosion</i> , 2025, 11(4), 102
2.	Dobrisson M.R., Toader A.G., Chiticaru E.A., Rotariu T., Ionita M., Nanostructured gelatin-gellan inks double reinforced with cellulose nanofibrils and graphene derivatives for 3D printing in bone regeneration applications, <i>Materials Today Advances</i> , 2025, 28, 100621
3.	Rahmatpour A., Hesarsorkh A.H.A., Self-assembly of graphene oxide containing bio-nanocomposite hydrogels for removal of chlorpyrifos and methylene blue, <i>International Journal of Biological Macromolecules</i> , 2025, 320, 145850
4.	Kirchhoff F.G., Fraga G.N., Bariccati R.A., Dragunski D.C., Bessegto G.G., Electrospun PVA/Co <sub>3</sub> O <sub>4</sub> Nanofibers: A Sustainable Catalyst for Peroxymonosulfate-Mediated Degradation of Tetracycline, <i>ACS Omega</i> , 2025, 10(26), 27883-27893
5.	Negi A., Pandey M., Yassin M.T., Al-Otibi F.O., Sharma S., Wastewater remediation and enhanced energy harvesting by La-doped in rGO embedded with chitosan decorated gum rosin matrix, <i>International Journal of Biological Macromolecules</i> , 2025, 309, 142525
6.	Jain V.P., Jainswar G., Performance of Graphene Oxide Hydrogel Functionalized with Chitosan and Polyvinyl Alcohol for Enhanced Antibacterial Activities, <i>Chemistry Africa</i> , 2025, 8(4), 1529-1538
7.	Zeng J., Wu C., Wang S., Gao W., Chen K., Development of high-throughput electrospun chitosan/PEO-CNC composite membranes with enhanced antibacterial and oil-water separation properties, <i>International Journal of Biological Macromolecules</i> , 2025, 303, 140308
8.	Joshi T., Joshi H., Bhatt S., Pancholi M., Bagchi D., Biopolymer composite matrix structure nano architectonics and its key role in regulating mechanical tunability for biomedical applications, <i>Journal of Polymer Research</i> , 2025, 32(4), 130

9.	Hashemi S.S, Niknam Z., Mojtaba Zebarjad S., Karimi-Busheri F., Khonakda H.A., Tracking the healing effect of human Wharton's jelly stem cells labeled with superparamagnetic iron oxide nanoparticles seeded onto polyvinyl alcohol/chitosan/carbon nanotubes in burn wounds by MRI and Prussian blue staining, <i>Biomedical Materials Bristol</i> , 2025, 20(2), 025037
10.	Zheng Y., Ma X., Su X., Li D., Li Y., Development of Highly Transparent and Multifunctional Lignin-Derived Carbon Quantum Dots/PVA Composite Films for Active Food Packaging, <i>Polymer Engineering and Science</i> , 2025,
11.	Ding W., guo S., Wang K., Asres B.S., Ding Z., Aminated graphene oxide reinforced gelatin-chitosan composite films toward biopackaging: Preparation and properties, <i>International Journal of Biological Macromolecules</i> , 2025, 284, 138104
12.	Tavares F.C., Luzardo J.M., Dias A.A., Araujo J.R., Jakomin R., Strong and Flexible Platinum-Free Counter Electrode for DSSC Applications, <i>Journal of Applied Polymer Science</i> , 2025
13.	Ikrma M., Ibrahim H., Akbar Kalyar A., Ameer S., Sher M, Electrochemical Detection of Biofilms, <i>Microbial Biofilm Dynamics Contemporary Approaches Models and Analytical Tools</i> , 2025, 185-199
14.	Shelhar S., Chaudhary V., Sharma B., Bhagi A.K., Meena M.K., Bioinspired molecular modeling and antibacterial efficacy of silver/graphene oxide grafted chitosan nanocomposite for food packaging applications, <i>Biomass Conversion and Biorefinery</i> , 2024, 14(23), 30091-30100
15.	Usama M., Khan M., Peng X., Wang J., Chitosan/graphene oxide based biocomposite dynamic films for enzyme-free biosensing application, <i>Materials Science and Engineering B</i> , 2024, 310, 117766
16.	Gupta S., Vasanth D., Kumar A., FABRICATION AND CHARACTERIZATION OF DISSOLVING MICRONEEDLE PATCH USING 3D PRINTED MASTER, <i>International Journal of Applied Pharmaceutics</i> , 2024, 16(6), 182-189
17.	Yilmazoglu M., Okkay H., Abaci U., Coban O., Proton conductivity and dielectric studies on chitosan/polyvinyl alcohol blend electrolytes: Synergistic improvements with ionic liquid and graphene oxide, <i>International Journal of Biological Macromolecules</i> , 2024, 279, 135502
18.	Sharma R., Kumar H., Yadav D., Deswal Y., Sharma A.K., Synergistic advancements in nanocomposite design: Harnessing the potential of mixed metal oxide/reduced graphene oxide nanocomposites for multifunctional applications, <i>Journal of Energy Storage</i> , 2024, 93, 112317
19.	Yavarian M., Melnik R., Miskovic Z.L., Frequency Response of the Diffuse-Charge Dynamics in Electrochemical Systems with a Graphene Electrode, <i>Journal of the Electrochemical Society</i> , 2024, 171(8), 086501
20.	Zhang W., Khan A., Ezati P., Goksen G., Rhim J.W., Advances in sustainable food packaging applications of chitosan/polyvinyl alcohol blend films, <i>Food Chemistry</i> , 2024, 443, 138506
21.	Cicek Ozkan B., Guner M., Adjustable dielectric and bioactivity characteristics of chitosan-based composites via crosslinking approach and incorporation of graphene, <i>Journal of Taibah University Medical Sciences</i> , 2024, 19(3), 585-597
22.	Abd-Elghany A.A., Ramadan M.A., El-Wakeel S.T., AlOmari A.K., Mohamad E.A., Silver-graphene oxide nanocomposite doping chitosan/PVA membrane for arsenic (III) elimination from aqueous solution, <i>Materials Research Express</i> , 2024, 11(5), 055009
23.	Ozdemir D.G., Evcimen Duygulu N., Ozarslan A.C., Ciftci F., Fabrication and characterization of Graphene oxide/Fucoidan/Chitosan reinforced Poly(vinyl alcohol) nanocomposites, <i>Journal of Molecular Structure</i> , 2024, 1301, 137330
24.	Zor M., Sen F., Candan Z., Georgiev V., Menseidov D., Preparation and Characterization of Polyvinyl Alcohol (PVA)/Carbonized Waste Rubber Biocomposite Films, <i>Polymers</i> , 2024, 16(8), 1050
25.	Lee S., Jin J.U., Hahn J.R., Ryu S., You N.H., Highly water-dispersible methylpyridinium salt functionalized reduced graphene oxide and poly(vinyl alcohol) composites, <i>Composites Part B, Engineering</i> , 2024, 271, 111142
26.	Zheng Y., Ma H., Wang J., Fan C., Preparation of graphene oxide/carboxymethyl chitosan/polyvinyl alcohol composite nanofiber membranes by electrospinning for heavy metal adsorption, <i>Journal of Applied Polymer Science</i> , 2024, 141(4), e54840
27.	Bu Y., Kim H.K., Lee J.S., Sharma M., Kim B.S., Improvement of biodegradable polymer film properties by incorporating functionalized few-layer graphene, <i>Food Packaging and Shelf Life</i> , 2023, 40, 101205
28.	Grande-Tovar C.D., Castro J.I., Tenorio D.L., Florez-Lopez E., Valencia-Llano C.H., Chitosan-Polyvinyl Alcohol Nanocomposites for Regenerative Therapy, <i>Polymers</i> , 2023, 15(23), 4595
29.	Cremonuzzi J.M.D.O., Pinto G.M., Mincheva R., Raquez J.M., Fachine G.J.M., The micromechanics of graphene oxide and molybdenum disulfide in thermoplastic nanocomposites and the impact to the polymer-filler interphase, <i>Composites Science and Technology</i> , 2023, 243, 110236

30.	Ali A.M., Elshabrawy S.M., Kamoun E.A., Evaluation of the mechanical properties and degradation behavior of chitosan-PVA-graphene oxide nanocomposite scaffolds in vitro, <i>Journal of Taibah University Medical Sciences</i> , 2024, 19(3), 585-597
31.	Fraga G.N., Dragunski D.C., Vilsinski B.H., Rossin A.R.S., Gibin M.S., Dressings produced from PVA nanofibers containing chloramphenicol, <i>Colloids and Surfaces A Physicochemical and Engineering Aspects</i> , 2023, 674, 131760
32.	Li Y., Yao L., Bian R., Mao G., Wang Y., Potential Value of Konjac Glucomannan Microcrystalline/Graphene Oxide Dispersion Composite Film in Degradable Plastics, <i>Coatings</i> , 2023, 13(10), 1757
33.	Cernencu A.I., Vlasceanu G.M., Serafim A., Pircalabioru G., Ionita M., 3D double-reinforced graphene oxide - nanocellulose biomaterial inks for tissue engineered constructs, <i>Rsc Advances</i> , 2023, 13(34), 24053-24063
34.	Liu F., Zhang X., Xiao X., Alee M., Yu L., Improved hydrophobicity, antibacterial and mechanical properties of polyvinyl alcohol/quaternary chitosan composite films for antibacterial packaging, <i>Carbohydrate Polymers</i> , 2023, 312, 120755
35.	Dhiman N.K., Reddy M.S., Agnihotri S., Graphene oxide reinforced chitosan/polyvinyl alcohol antibacterial coatings on stainless steel surfaces exhibit superior bioactivity without human cell cytotoxicity, <i>Colloids and Surfaces B Biointerfaces</i> , 2023, 227, 113362
36.	Ghaffari F., Salehi E., Heidary F., Ethylenediamine-Functionalized Graphene Oxide Nanosheets for Modifying Chitosan/Polyvinyl Alcohol Membrane Adsorbents for RB19 Removal from Wastewater, <i>Industrial and Engineering Chemistry Research</i> , 2023, 62(22), 8911-8925
37.	Dehghani A., Lashgari M., Bahlakeh G., Ramezanzadeh B., Chitosan biomolecules-modified graphene oxide nanolayers decorated by mesoporous ZIF-9 nanocrystals for the construction of a smart/pH-triggered anti-corrosion coating system, <i>Journal of Industrial and Engineering Chemistry</i> , 2023, 121, 45-62
38.	Gorgolis G., Ziemann S., Kotsidi M., Anders M., Galiotis C., Novel Graphene-Based Materials as a Tool for Improving Long-Term Storage of Cultural Heritage, <i>Materials</i> , 2023, 16(9), 3528
39.	Zeng J., Xiong X., Hu F., Li J., Li P., Dialdehyde Cellulose Solution as Reducing Agent: Preparation of Uniform Silver Nanoparticles and In Situ Synthesis of Antibacterial Composite Films with High Barrier Properties, <i>Molecules</i> , 2023, 28(7), 2956
40.	Borhade D.D., Nangare S.N., Patil D.A., Patil G.S., Patil G.B., Preparation of pirfenidone loaded chitosan-polyvinyl alcohol-graphene oxide-based scaffold: Spectroscopical characterizations and antibacterial activity, <i>Journal of Drug Delivery Science and Technology</i> , 2023, 82, 104325
41.	Toader A.G., Vlasceanu G.M., Serafim A., Banciu A., Ionita M., Double-Reinforced Fish Gelatin Composite Scaffolds for Osteochondral Substitutes, <i>Materials</i> , 2023, 16(5), 1815
42.	Mallakpour S. Khadem E., Pollutant remediation from water using polymeric nanocomposites having chitosan, poly(vinyl alcohol), and nanofillers, <i>Green Sustainable Process for Chemical and Environmental Engineering and Science Applications of Advanced Nanostructured Materials in Wastewater Remediation</i> , 2023, 1-22
43.	Islam R., Noyon M.A.R., Dey T.K., Chinnasamy M., Uddin M.E., Fabrication of Graphene Oxide Reinforced Biocomposite: Recycling of Postconsumed Footwear Leather, <i>Advances in Polymer Technology</i> , 2023, 3996687
44.	Kausar A., Carbohydrate polymer derived nanocomposites: design, features and potential for biomedical applications, <i>Polymer Plastics Technology and Materials</i> , 2023, 62(5), 582-603
45.	Das M., Application of polyvinyl alcohol as a stabilizer for nanoparticles and the formation of nanocomposites, <i>Advances in Nanotechnology</i> , 2022, 28, 195-209
46.	Rahmani M.H., Dehghani A., Bahlakeh G., Ramezanzadeh B., Introducing GO-based 2D-platform modified via phytic acid molecules decorated by zeolite imidazole ZIF-9 MOFs for designing multi-functional polymeric anticorrosive system; DFT-D computations and experimental studies, <i>Journal of Molecular Liquids</i> , 2022, 364, 119945
47.	Zeeshan Soomro A.M., Cho S., Design and Fabrication of a Robust Chitosan/Polyvinyl Alcohol-Based Humidity Sensor energized by a Piezoelectric Generator, <i>Energies</i> , 2022, 15(20), 7609
48.	Chiticaru E.A., Ionita M., Graphene toxicity and future perspectives in healthcare and biomedicine, <i>Flatchem</i> , 2022, 35, 100417
49.	Bitaraf P., Asefnejad A., Nemati N.H., Fabrication of polyvinyl alcohol-graphene nanosheet nanocomposite loading of omega-3 fatty acids for ceramic engineering, <i>Iranian Journal of Basic Medical Sciences</i> , 2022, 25(3), 330-340
50.	Bazzi M., Shabani I., Mohandesi J.A., Enhanced mechanical properties and electrical conductivity of Chitosan/Polyvinyl Alcohol electrospun nanofibers by incorporation of graphene nanoplatelets, <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 125, 104975

51.	Bora D., Jayaramudu J., Saikia P., Ray S.S., Sadiku E.R., Effect of boehmite alumina nanoparticles on the physical and chemical characteristics of eco-friendly sodium alginate/polyvinyl alcohol bio-nanocomposite film, <i>International Journal of Polymer Analysis and Characterization</i> , 2022, 27(4), 236-251
52.	Montazeri A., Saeedi F., Bahari Y., Ahmadi Daryakenari A., Preclinical assessment of chitosan–polyvinyl alcohol–graphene oxide nanocomposite scaffolds as a wound dressing, <i>Polymer and Polymer Composites</i> , 2021, 29, S926-S936
53.	Hamghavandi M.R., Montazeri A., Ahmadi Daryakenari A., Pishvaei M., Preparation and characterization of chitosan/graphene oxide nanocomposite coatings on Mg-2 wt% Zn scaffold by pulse electrodeposition process, <i>Biomedical Materials Bristol</i> , 2021, 16(6), 065005
54.	Saeedi F., Montazeri A., Bahari Y., Pishvaei M., Jannat B., A study on the viscoelastic behavior of chitosan-polyvinyl alcohol-graphene oxide nanocomposite films as a wound dressing, <i>Polymers and polymer Composites</i> , 2021, 29(8), 1259-1272
55.	Doghish A.S., El-Sayyad G.S., Sallam A.A., Khalil W.F., El Roubay W.M.A., Graphene oxide and its nanocomposites with EDTA or chitosan induce apoptosis in MCF-7 human breast cancer, <i>Rsc Advances</i> , 2021, 11(46), 29052-29064
56.	Castro J.I., Chaur M.N., Llano C.H.V., Mina Hernandez J.H., Grande-Tovar C.D., Biocompatibility study of electrospun nanocomposite membranes based on chitosan/polyvinyl alcohol/oxidized carbon nano-onions, <i>Molecules</i> , 2021, 16(16), 4753
57.	Nunes Y.L., de Menezes F.L., de Sousa I.G., de Souza M.C.M., dos Santos J.C.S., Chemical and physical Chitosan modification for designing enzymatic industrial biocatalysts: How to choose the best strategy?, <i>International Journal of Biological Macromolecules</i> , 2021, 181, 1124-1170
58.	Özen, Ö., Yapıcı, K., Yılmaz, D., Comprehensive performance characterization of conductive fabric made of reduced graphene oxide (rGO), (2021) <i>Journal of Applied Polymer Science</i> , 138 (22), art. no. 50524
59.	Bayat, A., Tati, A., Ahmadipouya, S., Haddadi, S.A., Arjmand, M., Electrospun chitosan/polyvinyl alcohol nanocomposite holding polyaniline/silica hybrid nanostructures: An efficient adsorbent of dye from aqueous solutions(2021) <i>Journal of Molecular Liquids</i> , 331, art. no. 115734
60.	Gu, B., Jiang, Q., Luo, B., Liu, C., Ren, J., Wang, X., Wang, X, A sandwich-like chitosan-based antibacterial nanocomposite film with reduced graphene oxide immobilized silver nanoparticles, (2021) <i>Carbohydrate Polymers</i> , 260, art. no. 117835
61.	Attia, M.S., El-Sayyad, G.S., Abd Elkodous, M., Khalil, W.F., Nofel, M.M., Abdelaziz, A.M., Farghali, A.A., El-Batal, A.I., El Roubay, W.M.A., Chitosan and EDTA conjugated graphene oxide antinematodes in Eggplant: Toward improving plant immune response, (2021) <i>International Journal of Biological Macromolecules</i> , 179, pp. 333-344
62.	Abdollahiyan, P., Oroojalian, F., Mokhtarzadeh, A, The triad of nanotechnology, cell signalling, and scaffold implantation for the successful repair of damaged organs: An overview on soft-tissue engineering, (2021) <i>Journal of Controlled Release</i> , 332, pp. 460-492
63.	Vlasceanu G.M., ionita M., Iovu H., Physico-chemical enhancements of natural biopolymer matrices by reinforcing with complex carbonaceous-oxidic fillers, <i>UPB Scientific Bullentin Series B Chemistry and Materials Science</i> , 2021, 83(2), 133-146
64.	Sivashankari P.R., Krishna Kumar K., Devendiran M., Prabakaran M., Graphene oxide-reinforced pectin/chitosan polyelectrolyte complex scaffolds, <i>Journal of Biomaterials Science Polymer Edition</i> , 2021, 32(17), 2246-2266
65.	Yezer, I., Demirkol, D.O., Cellulose acetate–chitosan based electrospun nanofibers for bio-functionalized surface design in biosensing,2020, <i>Cellulose</i> , 27 (17), pp. 10183-10197
66.	Nofal, M.M., Aziz, S.B., Hadi, J.M., Abdulwahid, R.T., Dannoun, E.M.A., Marif, A.S., Al-Zangana, S., Zafar, Q., Brza, M.A., Kadir, M.F.Z., Synthesis of porous proton ion conducting solid polymer blend electrolytes based on PVA: CS polymers: Structural, morphological and electrochemical properties, 2020, <i>Materials</i> , 13 (21), art. no. 4890, pp. 1-21
67.	Ying, Y., Wu, Y., Huang, J., Preparation and characterization of chitosan/poly(vinyl alcohol)/graphene oxide films and studies on their antibiofilm formation activity, 2020, <i>Journal of Biomedical Materials Research - Part A</i> , 108 (10), pp. 2015-2022
68.	Iqbal, A.A., Sakib, N., Iqbal, A.K.M.P., Nuruzzaman, D.M., Graphene-based nanocomposites and their fabrication, mechanical properties and applications, 2020, <i>Materialia</i> , 12, art. no. 100815
69.	Shekhar, S., Sharma, R., Sharma, S., Sharma, B., Sarkar, A., Jain, P., An Exploration of Electrocatalytic Analysis and Antibacterial Efficacy of Electrically Conductive Poly (D-Glucosamine)/Graphene Oxide Bionanohybrid, 2020, <i>Carbohydrate Polymers</i> , 240, art. no. 116242
70.	Song, J., Song, J., Li, Y., Yin, F., Zhang, Z., Ke, D., Wang, D., Yuan, Q., Zhang, X.-E., Zhang, X.-E., Enhanced Electrochemical Impedance Spectroscopy Analysis of Microbial Biofilms on an Electrochemically in Situ Generated Graphene Interface, 2020, <i>ACS Sensors</i> , 5 (6), pp. 1795-1803
71.	Amjadi, A., Sirousazar, M., Kokabi, M., Dual stimuli responsive neutral/cationic polymers/clay nanocomposite hydrogels, 2020, <i>Journal of Applied Polymer Science</i> , 137 (24), art. no. 48797

72.	Azadian, E., Arjmand, B., Ardeshtyrlajimi, A., Hosseinzadeh, S., Omid, M., Khojasteh, A., Polyvinyl alcohol modified polyvinylidene fluoride-graphene oxide scaffold promotes osteogenic differentiation potential of human induced pluripotent stem cells, 2020, <i>Journal of Cellular Biochemistry</i> , 121 (5-6), pp. 3185-3196
73.	Tovar, C.D.G., Castro, J.I., Valencia, C.H., Zapata, P.A., Solano, M.A., López, E.F., Chaur, M.N., Zapata, M.E.V., Hernandez, J.H.M., Synthesis of chitosan beads incorporating graphene oxide/titanium dioxide nanoparticles for in vivo studies, 2020, <i>Molecules</i> , 25 (10), art. no. 2308
74.	Tovar, C.D.G., Castro, J.I., Valencia, C.H., Porras, D.P.N., Hernandez, J.H.M., Zapata, M.E.V., Chaur, M.N., Nanocomposite films of chitosan-grafted carbon nano-onions for biomedical applications, 2020, <i>Molecules</i> , 25 (5), art. no. molecules25051203
75.	Li, T.-T., Zhang, Y., Ling, L., Lin, M.-C., Wang, Y., Wu, L., Lin, J.-H., Lou, C.-W., Manufacture and characteristics of HA-Electrodeposited polylactic acid/polyvinyl alcohol biodegradable braided scaffolds, 2020, <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 103, art. no. 103555
76.	Chen, S., Wang, H., Jian, Z., Fei, G., Qian, W., Luo, G., Wang, Z., Xia, H., Novel Poly(vinyl alcohol)/Chitosan/Modified Graphene Oxide Biocomposite for Wound Dressing Application, 2020, <i>Macromolecular Bioscience</i> , 20 (3), art. no. 1900385
77.	Terzioglu, P., Altin, Y., Kalem, A., CelikBedeloglu, A., Graphene oxide and zinc oxide decorated chitosan nanocomposite biofilms for packaging applications, 2020, <i>Journal of Polymer Engineering</i> , 40 (2), pp. 152-157
78.	Wu, S., Chen, X., Li, T., Cui, Y., Yi, M., Ge, J., Yin, G., Li, X., He, M., Improving the performance of feather keratin/polyvinyl alcohol/tris(Hydroxymethyl)aminomethane nanocomposite films by incorporating graphene oxide or graphene, 2020, <i>Nanomaterials</i> , 10 (2), art. no. 327
79.	Saeedi, F., Montazeri, A., Bahari, Y., Pishvaei, M., Jannat, B., A study on the viscoelastic behavior of chitosan-polyvinyl alcohol-graphene oxide nanocomposite films as a wound dressing, 2020, <i>Polymers and Polymer Composites</i> ,
80	Mahato, K.K., Sabbarwal, S., Misra, N., Kumar, M., Fabrication of polyvinyl alcohol/chitosan oligosaccharide hydrogel: physicochemical characterizations and in vitro drug release study, 2020, <i>International Journal of Polymer Analysis and Characterization</i> , pp. 1-9
81	Grande Tovar, C.D., Castro, J.I., Valencia Llano, C.H., Navia Porras, D.P., Ospina, J.D., Valencia Zapata, M.E., Mina Hernandez, J.H., Chaur, M.N., Synthesis, characterization, and histological evaluation of chitosan-ruta graveolens essential oil films, 2020, <i>Molecules</i> , 25 (7), art. no. 1688
82	Tovar, C.D.G., Castro, J.I., Valencia, C.H., Porras, D.P.N., Hernandez, J.H.M., Valencia, M.E., Velásquez, J.D., Chaur, M.N., Preparation of chitosan/poly(Vinyl alcohol) nanocomposite films incorporated with oxidized carbon nano-onions (multi-layer fullerenes) for tissue-engineering applications, (2019) <i>Biomolecules</i> , 9 (11), art. no. 684
83	Dinescu, S., Ionita, M., Ignat, S.-R., Costache, M., Hermenean, A., Graphene oxide enhances chitosan-based 3D scaffold properties for bone tissue engineering, (2019) <i>International Journal of Molecular Sciences</i> , 20 (20), art. no. 5077
84	Aidun, A., SafaeiFiroozabady, A., Moharrami, M., Ahmadi, A., Haghighipour, N., Bonakdar, S., Faghihi, S., Graphene oxide incorporated polycaprolactone/chitosan/collagen electrospun scaffold: Enhanced osteogenic properties for bone tissue engineering, (2019) <i>Artificial Organs</i> , 43 (10), pp. E264-E281
85	Correa, E., Moncada, M.E., Gutiérrez, O.D., Vargas, C.A., Zapata, V.H., Characterization of polycaprolactone/rGO nanocomposite scaffolds obtained by electrospinning, (2019) <i>Materials Science and Engineering C</i> , 103, art. no. 109773
86	Ghorbani, F., Zamanian, A., Aidun, A., Bioinspired polydopamine coating-assisted electrospun polyurethane-graphene oxide nanofibers for bone tissue engineering application, (2019) <i>Journal of Applied Polymer Science</i> , 136 (24), art. no. 47656
87	Marín, J.A.T., Londoño, S.R., Delgado, J., Porras, D.P.N., Zapata, M.E.V., Hernandez, J.H.M., Valencia, C.H., Tovar, C.D.G., Biocompatible and antimicrobial electrospun membranes based on nanocomposites of chitosan/poly (Vinyl alcohol)/graphene oxide, (2019) <i>International Journal of Molecular Sciences</i> , 20 (12), art. no. 2987
88	Zhang, J., Rumin, W., Chen, P., Reinforcing of phenol formaldehyde resin by graphene oxide and lignin nanohybrids, (2019) <i>High Performance Polymers</i> , 31 (5), pp. 590-599
89	Lusiana, R.A., Putri, A., Suseno, A., Djunaedi, M.C., Gunawan, The influence of grafted heparin on chitosan/poly (ethylene glycol) blend membrane and its application for creatinine and urea transport, (2019) <i>IOP Conference Series: Materials Science and Engineering</i> , 509 (1), art. no. 012121
90	Hu, M., Chen, Z., Luo, S., Yang, X., Ye, R., Zheng, M., Chen, P., Preparation of graphene oxide and alkali lignin nanohybrids and its application to reinforcing polymer, (2019) <i>Wood Science and Technology</i> , 53 (3), pp. 649-664
91	Singh, B., Singh, B., Developing a drug delivery carrier from natural polysaccharide exudate gum by graft-copolymerization reaction using high energy radiations, (2019) <i>International Journal of Biological Macromolecules</i> , 127, pp. 450-459
92	Ruiz, S., Tamayo, J.A., Ospina, J.D., Porras, D.P.N., Zapata, M.E.V., Hernandez, J.H.M., Valencia, C.H., Zuluaga, F., Tovar, C.D.G., Antimicrobial films based on nanocomposites of chitosan/poly(Vinyl alcohol)/graphene oxide for biomedical applications, (2019) <i>Biomolecules</i> , 9 (3), art. no. 109
93	Sivashankari, P.R., Prabakaran, M., Bioactive nanomaterials/chitosan composites as scaffolds for tissue regeneration, (2019) <i>Polysaccharide Carriers for Drug Delivery</i> , pp. 559-584
94	Zhu, Q., Liang, B., Cai, Y., Cao, Q., Tu, T., Huang, B., Fang, L., Ye, X., Layer-by-layer chitosan-decorated pristine graphene on screen-printed electrodes by one-step electrodeposition for non-enzymatic hydrogen peroxide sensor (2018) <i>Talanta</i> , 190, pp. 70-77

95	Aslam, M., Kalyar, M.A., Raza, Z.A., Polyvinyl alcohol: A review of research status and use of polyvinyl alcohol based nanocomposites (2018) <i>Polymer Engineering and Science</i> , 58 (12), pp. 2119-2132
96	Abbasian, M., Roudi, M.-M., Mahmoodzadeh, F., Eskandani, M., Jaymand, M., Chitosan-grafted-poly(methacrylic acid)/graphene oxide nanocomposite as a pH-responsive de novo cancer chemotherapy nanosystem (2018) <i>International Journal of Biological Macromolecules</i> , 118, pp. 1871-1879
97	Kariminejad, M., Sadeghi, E., Rouhi, M., Mohammadi, R., Askari, F., Taghizadeh, M., Moradi, S., The effect of nano-SiO <sub>2</sub> on the physicochemical and structural properties of gelatin-polyvinyl alcohol composite films (2018) <i>Journal of Food Process Engineering</i> , 41 (6), art. no. e12817
98	Sheng, C., Zhou, Y., Zhang, X., Xue, G., Mechanical, Thermal, and Swelling Properties of Cross-linked Hydrogels Based on Oxidized Cellulose Nanowhiskers and Chitosan/poly(vinyl alcohol) Blends (2018) <i>Fibers and Polymers</i> , 19 (10), pp. 2030-2038
99	Singh, B., Singh, B., Modification of sterculia gum polysaccharide via network formation by radiation induced crosslinking polymerization for biomedical applications (2018) <i>International Journal of Biological Macromolecules</i> , 116, pp. 91-99.
100	LužajićBožinovski, T., Marković, D., Todorović, V., Prokić, B.B., Milošević, I., Drndarević, N., Nešović, K., Kyong, Y.R., Mišković-Stanković, V., In vivo investigation of soft tissue response of novel silver/poly(vinyl alcohol)/graphene and silver/poly(vinyl alcohol)/chitosan/graphene hydrogels aimed for medical applications – The first experience (2018) <i>Acta Veterinaria</i> , 68 (3), pp. 321-339.
101	Ahmad, H., Fan, M., Hui, D., Graphene oxide incorporated functional materials: A review (2018) <i>Composites Part B: Engineering</i> , 145, pp. 270-280
102	Noori, S., Kokabi, M., Hassan, Z.M., Poly(vinyl alcohol)/chitosan/honey/clay responsive nanocomposite hydrogel wound dressing (2018) <i>Journal of Applied Polymer Science</i> , 135 (21), art. no. 46311
103	Balkız, G., Pingo, E., Kahya, N., Kaygusuz, H., BediaErim, F., Graphene Oxide/Alginate Quasi-Cryogels for Removal of Methylene Blue (2018) <i>Water, Air, and Soil Pollution</i> , 229 (4), art. no. 131
104	Saloglu, D., Ozcan, N., Activated carbon embedded chitosan/polyvinyl alcohol biocomposites for adsorption of nonsteroidal anti-inflammatory drug-naproxen from wastewater (2018) <i>Desalination and Water Treatment</i> , 107, pp. 72-84
105	Fatemeh Seyedpour, S., Rahimpour, A., Mohsenian, H., Taherzadeh, M.J., Low fouling ultrathin nanocomposite membranes for efficient removal of manganese (2018) <i>Journal of Membrane Science</i> , 549, pp. 205-216
106	Zhang, S., Ma, B., Wang, S., Duan, J., Qiu, J., Li, D., Sang, Y., Ge, S., Liu, H., Mass-production of fluorescent chitosan/graphene oxide hybrid microspheres for in vitro 3D expansion of human umbilical cord mesenchymal stem cells (2018) <i>Chemical Engineering Journal</i> , 331, pp. 675-684
107	Hermenean, A., Codreanu, A., Herman, H., Balta, C., Rosu, M., Mihali, C.V., Ivan, A., Dinescu, S., Ionita, M., Costache, M., Chitosan-Graphene Oxide 3D scaffolds as Promising Tools for Bone Regeneration in Critical-Size Mouse Calvarial Defects, (2017) <i>Scientific Reports</i> , 7 (1), art. no. 16641
108	Yuan, Y., Yan, Z., Mu, R.-J., Wang, L., Gong, J., Hong, X., Haruna, M.H., Pang, J., The effects of graphene oxide on the properties and drug delivery of konjac glucomannan hydrogel(2017) <i>Journal of Applied Polymer Science</i> , 134 (38), art. no. 45327
109	Papageorgiou, D.G., Kinloch, I.A., Young, R.J., Mechanical properties of graphene and graphene-based nanocomposites, (2017) <i>Progress in Materials Science</i> , 90, pp. 75-127
110	Ioniță, M., Vlăsceanu, G.M., Watzlawek, A.A., Voicu, S.I., Burns, J.S., Iovu, H., Graphene and functionalized graphene: Extraordinary prospects for nanobiocomposite materials, (2017) <i>Composites Part B: Engineering</i> , 121, pp. 34-57
111	Wu, J.-K., Ye, C.-C., Liu, T., An, Q.-F., Song, Y.-H., Lee, K.-R., Hung, W.-S., Gao, C.-J., Synergistic effects of CNT and GO on enhancing mechanical properties and separation performance of polyelectrolyte complex membranes, (2017) <i>Materials and Design</i> , 119, pp. 38-46
112	Kumar, A., Han, S.S., PVA-based hydrogels for tissue engineering: A review, (2017) <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 66 (4), pp. 159-182
113	Ghebaour, A., Garea, S.A., Cecoltan, S., Iovu, H., Development and characterization of novel freeze-thawed polyvinyl alcohol/ halloysite hydrogels: An approach for drug delivery application, (2017) <i>MaterialePlastice</i> , 54 (1), pp. 8-13
114	RajanUnnithan, A., Ramachandra KurupSasikala, A., Park, C.H., Kim, C.S., A unique scaffold for bone tissue engineering: An osteogenic combination of graphene oxide–hyaluronic acid–chitosan with simvastatin(2017) <i>Journal of Industrial and Engineering Chemistry</i> , 46, pp. 182-191
115	Emadi, F., Amini, A., Gholami, A., Ghasemi, Y., Functionalized Graphene Oxide with Chitosan for Protein Nanocarriers to Protect against Enzymatic Cleavage and Retain Collagenase Activity, (2017) <i>Scientific Reports</i> , 7, art. no. 42258
116	BilginSimsek, E., Saloglu, D., Ozcan, N., Novak, I., Berek, D, Carbon fiber embedded chitosan/PVA composites for decontamination of endocrine disruptor bisphenol-A from water, (2017) <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 70, pp. 291-301
117	Sivashankari, P.R., Prabakaran, M., Chitosan/carbon-based nanomaterials as scaffolds for tissue engineering(2017) <i>Biopolymer-Based Composites: Drug Delivery and Biomedical Applications</i> , pp. 381-397
118	Elkhenany, H., Bourdo, S., Biris, A., Anderson, D., Dhar, M., Important Considerations in the Therapeutic Application of Stem Cells in Bone Healing and Regeneration, (2016) <i>Stem Cells in Toxicology and Medicine</i> , pp. 458-480

119	Lyu, S.-H., Li, Y., Yang, W.-Q., Cui, Y.-Y., Research progress on preparation and application of graphene Oxide/Chitosan biocomposites, <i>CailiaoGongcheng/Journal of Materials Engineering</i> , 44 (10), 2016
120	Abd Wahab, N.Z., Nainggolan, I., Nasution, T.I., Derman, M.N., Shantini, D., Highly Response and Sensitivity Chitosan-Polyvinyl alcohol Based Hexanal Sensors, <i>MATEC Web of Conferences</i> , 78, 201
121	Omidi, M., Fathinia, A., Farahani, M., Zahedinik, M., Tayebi, L., Bio-Applications of Graphene Composites: From Bench to Clinic, <i>Advanced 2D Materials</i> , 2016, Book Chapter
122	Girão, A.F., Pinto, S., Bessa, A., (...), Pereira, E., Marques, P.A.A.P., Graphene Oxide: A Unique Nano-Platform to Build Advanced Multifunctional Composites, <i>Advanced 2D Materials</i> , 2016, Book Chapter
123	Manna, K., Srivastava, S.K., Mittal, V., Role of Enhanced Hydrogen Bonding of Selectively Reduced Graphite Oxide in Fabrication of Poly(vinyl alcohol) Nanocomposites in Water as EMI Shielding Material, <i>Journal of Physical Chemistry C</i> 120 (30), 2016
124	Nandi, S., Kundu, A., Nandi, A.K., Preferential delivery of anticancer drug to nucleic acids using polymer functionalized graphene oxide as nanocarrier, <i>Journal of Nanoscience and Nanotechnology</i> , 16(7), 2016
125	Zhang, K., Zheng, H., Liang, S., Gao, C., Aligned PLLA nanofibrous scaffolds coated with graphene oxide for promoting neural cell growth, <i>Acta Biomaterialia</i> , 37, 2016
126	Idumah, C.I., Hassan, A., Emerging trends in eco-compliant, synergistic, and hybrid assembling of multifunctional polymeric bionanocomposites, <i>Reviews in Chemical Engineering</i> , 32 (3), 2016
127	Linares, J., Matesanz, M.C., Feito, M.J., (...), Gómez-Fatou, M., Portolés, M.T., Influence of the covalent immobilization of graphene oxide in poly(vinyl alcohol) on human osteoblast response, <i>Colloids and Surfaces B: Biointerfaces</i> , 138, 2016
128	Idumah, C.I., Hassan, A., Emerging trends in flame retardancy of biofibers, biopolymers, biocomposites, and bionanocomposites, <i>Reviews in Chemical Engineering</i> , 32(1), 2016
129	Lusiana, R.A., Siswanta, D., Mudasir, Preparation of citric acid crosslinked chitosan/poly(Vinyl alcohol) blend membranes for creatinine transport, <i>Indonesian Journal of Chemistry</i> , 16(2), 2016
130	Tshai, K.Y., Khalili, P., Kong, I., Yeoh, C.H., Tshai, K.H., Synthesization of graphene and its incorporation into natural fiber reinforced thermosetting nanocomposite, <i>ARPN Journal of Engineering and Applied Sciences</i> , 11(1), 2016
131	El Achaby, M., El Miri, N., Snik, A., (...), Barakat, A., Solhy, A., Mechanically strong nanocomposite films based on highly filled carboxymethyl cellulose with graphene oxide, <i>Journal of Applied Polymer Science</i> , 133 (2), 2016
132	Moura, D., Caridade, S.G., Sousa, M.P., (...), Paiva, M.C., Alves, N.M., High performance free-standing films by layer-by-layer assembly of graphene flakes and ribbons with natural polymers, <i>Journal of Materials Chemistry B</i> , 4 (47), 2016
133	Elkhenany, H., Bourdo, S., Biris, A., Anderson, D., Dhar, M., Important Considerations in the Therapeutic Application of Stem Cells in Bone Healing and Regeneration ( Book Chapter), <i>Stem Cell in Toxicology and Medicine</i> , 2016
134	Gaaz, T.S., Sulong, A.B., Akhtar, M.N., Kadhum, A.A.H., Mohamad, A.B., Al-Amiery, A.A., McPhee, D.J., Properties and applications of polyvinyl alcohol, halloysite nanotubes and their nanocomposites, (2015) <i>Molecules</i> , 20 (12), pp. 22833-22847
135	Grkovic, M., Stojanovic, D.B., Kojovic, A., Strnad, S., Kreze, T., Aleksic, R., Uskokovic, P.S., Keratin-polyethylene oxide bio-nanocomposites reinforced with ultrasonically functionalized graphene,(2015) <i>RSC Advances</i> , 5 (111), pp. 91280-91287
136	Mahmoodi, N.M., Mokhtari-Shourijeh, Z, Preparation of PVA-chitosan blend nanofiber and its dye removal ability from colored wastewater, (2015) <i>Fibers and Polymers</i> , 16 (9), pp. 1861-1869
137	Baldino, L., Sarno, M., Cardea, S., Irusta, S., Ciambelli, P., Santamaria, J., Reverchon, E, Formation of cellulose acetate-graphene oxide nanocomposites by supercritical CO <sub>2</sub> assisted phase inversion(2015) <i>Industrial and Engineering Chemistry Research</i> , 54 (33), pp. 8147-8156
138	Li, H.-Z., Chen, S.-C., Wang, Y.-Z, Preparation and characterization of nanocomposites of polyvinyl alcohol/cellulose nanowhiskers/chitosan(2015) <i>Composites Science and Technology</i> , 115, pp. 60-65
139	De Freitas Barros, F.C., de Oliveira Sousa Neto, V., Carvalho, T.V., Vieira, R.S., Silva, G.M.M., do Nascimento, R.F, Recent development of chitosan nanocomposites with multiple potential uses(2015) <i>Advanced Structured Materials</i> , 74, pp. 497-531
140	Mohanty, S., Biswal, S.K.Effect of formulation variables on in vitro release of doxorubicin from chitosan/PVA-polyamidoamine dendrimer complex(2015) <i>International Journal of Applied Chemistry</i> , 11 (4), pp. 515-525
141	González, J.A., Villanueva, M.E., Peralta Ramos, M.L., Pérez, C.J., Piehl, L.L., Copello, G.J., Chitin based hybrid composites reinforced with graphene derivatives: A nanoscale study(2015) <i>RSC Advances</i> , 5 (78), pp. 63813-63820

142	Cheng, J., Liu, H., Zhao, B., Shen, R., Liu, D., Hong, J., Wei, H., Xi, P., Chen, F., Bai, D., MC3T3-E1 preosteoblast cell-mediated mineralization of hydroxyapatite by poly-dopamine-functionalized graphene oxide(2015) Journal of Bioactive and Compatible Polymers, 30 (3), pp. 289-301
143	Ionita, M., Crica, L.E., Tiainen, H., Haugen, H.J., Vasile, E., Dinescu, S., Costache, M., Iovu, H., Gelatin-poly(vinyl alcohol) porous biocomposites reinforced with graphene oxide as biomaterials(2015) Journal of Materials Chemistry B, 4 (2), pp. 282-291
144	Shuai, C., Feng, P., Gao, C., Shuai, X., Xiao, T., Peng, S., Graphene oxide reinforced poly(vinyl alcohol): Nanocomposite scaffolds for tissue engineering applications(2015) RSC Advances, 5 (32), pp. 25416-25423
145	El Miri, N., Abdelouahdi, K., Zahouily, M., Fihri, A., Barakat, A., Solhy, A., El Achaby, M., Bio-nanocomposite films based on cellulose nanocrystals filled polyvinyl alcohol/chitosan polymer blend(2015) Journal of Applied Polymer Science, 132 (22), art. no. 42004
146	El Achaby, M., Essamlali, Y., El Miri, N., Snik, A., Abdelouahdi, K., Fihri, A., Zahouily, M., Solhy, A., Graphene oxide reinforced chitosan/polyvinylpyrrolidone polymer bio-nanocomposites(2014) Journal of Applied Polymer Science, 131 (22), art. no. 41042
147	Tian, M., Qu, L., Zhang, X., Zhang, K., Zhu, S., Guo, X., Han, G., Tang, X., Sun, Y. Enhanced mechanical and thermal properties of regenerated cellulose/graphene composite fibers(2014) Carbohydrate Polymers, 111, pp. 456-462
148	Mngomezulu, M.E., John, M.J., Jacobs, V., Luyt, A.S, Review on flammability of biofibres and biocomposites(2014) Carbohydrate Polymers, 111, pp. 149-182
S. D149inescu, M. Ionita, <b>A.M. Pandele</b> , B. Galateanu, H. Iovu, A. Ardelean, M. Costache, A. Hermenean, In vitro cytocompatibility evaluation of chitosan/graphene oxide 3D scaffold composites designed for bone tissue engineering, <b>Bio-Medical Materials and Engineering</b> , 24 (2014), 2249-2256, 10.3233/BME-141037	
1.	Pinho L.C152., Ferreira M., Graca A., Fernandes M. H., Santos C., Tannic Acid-Enhanced Gelatin-Based Composite Hydrogel as a153 Candidate for Canine Periodontal Regeneration, Gels, 2025, 11(8), 650
2.	Ismael N.J., Kadhim I.A.U., Al-Tamimi B.H., Enhancing Composite Freeze-Dried Chitosan/TPP Hydrogel Scaffolds with nGO and nHAp for Bone Tissue Engineering, Revue Des Composites Et Des Materiaux Avances, 2025, 35(3), 559-566
3.	Rajput P., Khanchandani S., A review of chitosan-functionalized graphene oxide nanocomposites: A revolutionary drug delivery vehicle for cancer therapy, International Journal of Biological Macromolecules, 2025, 311, 143999
4.	Zhang K., Hu J., Xie H., Tang J., Qin H., Reduced graphene oxide-calcium polyphosphate-alginate-chitosan-PLGA hybrid scaffolds for bone tissue engineering: Synthesis, characterization, and osteogenic activity, Alexandria Engineering Journal, 2025, 121, 295-308
5.	Ramezani Faroni M., Zare I., Mirshafiei M., Kang H., Huh Y.S., Graphene oxide-engineered chitosan nanoparticles: Synthesis, properties, and antibacterial activity for tissue engineering and regenerative medicine, Chemical Engineering Journal, 2025, 509, 160852
6.	Vlasceanu G.M., Zamfir C.I., Balta C., Popescu R.C., Hermenean A., Functionalized Reduced Graphene Oxide-Based Nanocomposite Hydrogels for Enhanced Osteogenesis in Bone Tissue Engineering, Advanced Healthcare Materials, 2025
7.	Paxinou A., Nigmatullin R., Paterakis G., Salber J., Roy I., Novel polyhydroxyalkanoate-graphene oxide composites with potential for clinical application against bacterial implant-associated infections in septic surgery, Frontiers in Bioengineering and Biotechnology, 2025, 13, 1671682
8.	Thapliyal D., Verros G.D., Arya R.K., Nanoparticle-Doped Antibacterial and Antifungal Coatings, Polymers, 2025, 17(2), 247
9.	Rajasekaran S., Kungumaraj K.K., Mani D., Mani P., Chitosan/Guar gum – Graphene oxide porous scaffolds for tissue engineering applications, Materials Today Communications, 2024, 41, 110288
10.	Cojocar E., Oprea M., Vlasceanu G.M., Toader A.G., Ionita M., Dual nanofiber and graphene reinforcement of 3D printed biomimetic supports for bone tissue repair, Rsc Advances, 2024, 14(44), 32517-32532
11.	Iqbal A.A., Harcen C.S., Haque M., Graphene (GNP) reinforced 3D printing nanocomposites: An advanced structural perspective, Heliyon, 2024, 10(7), e28771
12.	Xie Q., Wang T., He L., Xie W., Niu Y., Biological and structural properties of curcumin-loaded graphene oxide incorporated collagen as composite scaffold for bone regeneration, Frontiers in Bioengineering and Biotechnology, 2024, 12, 1505102
13.	Kim Y. Patel R., Kulkarni C.V., Patel M., Graphene-Based Aerogels for Biomedical Application, Gels, 2023, 9(12), 967

14.	Mobarak M.H., Hossain N., Hossain A., Islam M.A., Chowdhury M.A., Advances of graphene nanoparticles in dental implant applications – A review, Applied Surface Science Advances, 2023, 18, 100470
15.	Montazeri A., Hamghavandi M.R., Nezhadfarid M.S., Kari A.Y., Chitosan/Graphene Oxide Nanocomposite Coatings on Magnesium Alloy: Corrosion and Biocompatibility Properties, Materials Performance and Characterization, 2023, 12(1), 152-169
16.	Alazab M.H., Abouelgeit S.A., Aboushelib M.N., Histomorphometric evaluation of 3D printed graphene oxide-enriched poly( $\epsilon$ -caprolactone) scaffolds for bone regeneration, Heliyon, 2023, 9(5), e15844
17.	Sagadevan S., Schirhagl R., Rahman M.Z., Mohd Kaus N.H., Oh W.C., Recent advancements in polymer matrix nanocomposites for bone tissue engineering applications, Journal of Drug Delivery Science and Technology, 2023, 82, 104313
18.	You X., Zhang Q., Yang J., Dong S., Review on 3D-printed graphene-reinforced composites for structural applications, Composites Part A Applied Science and Manufacturing, 2023, 167, 107420
19.	Meera A.P., Pillai R.R., Sreelekshmi P.B., Novel polymer nanocomposites: Synthesis, designing and cost-effective biomedical applications, Bio Inspired Nanotechnology, 2023, 56-72
20.	Oukelis K., Helal Z.A., Mikos A.G., Chatzinikolaidou M., Nanocomposite Bioprinting for Tissue Engineering Applications, Gels, 2023, 9(2), 103
21.	Godhbane M., Menassol G., Beneventi D., Zebda A., Belgacem M.N., Flexible doctor blade-coated abiotic cathodes for implantable glucose/oxygen biofuel cells, RSC Advances, 2023, 13(6), 3877-3889
22.	Yu S., You M., Zhou K., Li J., Progress of research on graphene and its derivatives in bone and cartilage repair, frontiers in Bioengineering and Biotechnology, 2023, 11, 1185520
23.	Puza F., Rostami S., Ozcolak-Aslan B., Jandt K.D., Garipcan B., Anisotropic Bone Surface Topography Mimicked Chitosan/Graphene Oxide Membranes, Advanced Engineering Materials, 2023, 25(1), 2200777
24.	Chakraborty A.R., Akshay R., Sahoo S., Pamesh K., Raghavan V., Emerging Graphene-Based Nanomaterials for Cancer Nanotheranostics, Materials Horizons from Nature to Nanomaterials, 2023, 1091-1126
25.	Kaur H., Garg R., Singh S., Kumbar S.G., Mittal M., Progress and challenges of graphene and its congeners for biomedical applications, Journal of Molecular Liquids, 2022, 368, 120703
26.	Shahverdi N., Montazeri A., Khavandi A., Rezaei H.R., Saeedi F., Fabrication of Nanohydroxyapatite-Chitosan Coatings by Pulse Electrodeposition Method, Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32(12), 4649-4663
27.	Huang J., Liu Y., Muhammad Y., Li Z., Pei R., Effect of glutaraldehyde-chitosan crosslinked graphene oxide on high temperature properties of SBS modified asphalt, Construction and Building Materials, 2022, 357, 129387
28.	Chiticaru E.A., Ionita M., Graphene toxicity and future perspectives in healthcare and biomedicine, Flatchem, 2022, 35, 100417
29.	Tan J., Li L., Li B., Song P., Wang X., Titanium Surfaces Modified with Graphene Oxide/Gelatin Composite Coatings for Enhanced Antibacterial Properties and Biological Activities, ACS Omega, 2022, 7(31), 27359-27368
30.	Pan X., Cheng D., Ruan C., Hong Y., Lin C., Development of Graphene-Based Materials in Bone Tissue Engineering, Global Challenges, 2022, 6(2), 2100107
31.	Rieg T., Silva A.O., Cunha R.S., Hotza D., Machado R.A.F., Recent Advancements in the Application of Chitosan-Based Nanocomposites in Tissue Engineering and Regenerative Medicine, Chitosan Based Nanocomposite Materials Fabrication Characterization and Biomedical Applications, 2022, 145-163
32.	Eslahi N., Lotfi R., Zandi N., Soleimani F., Simchi A., Graphene-based polymer nanocomposites in biomedical applications, Innovations in graphene based Polymer Composites, 2022, 199-245
33.	Padinjareveetil A.K.K., Padil V.V.T., Cernik M., Graphene oxide-based nanocomposite and their biomedical applications, Nanoengineering of Biomaterials Drug Delivery Biomedical Applications, 2021, 2-2, 427-456
34.	Montazeri A., Saeedi F., Bahari Y., Ahmadi Daryakenari A., Preclinical assessment of chitosan–polyvinyl alcohol–graphene oxide nanocomposite scaffolds as a wound dressing, Polymers and Polymer Composites, 2021, 29, S926-S936
35.	Hamghavandi M.R., Montazeri A., Ahmadi Daryakenari A., Pishvaei M., Preparation and characterization of chitosan/graphene oxide nanocomposite coatings on Mg-2 wt% Zn scaffold by pulse electrodeposition process, Biomedical Materials Bristol, 2021, 16(6), 065005
36.	Ghosal K., Mondal P., Bera S., Ghosh S., Graphene family nanomaterials- opportunities and challenges in tissue engineering applications, Flatchem, 2021, 30, 100315

37.	Chowdhuri S., Ghosh M., Adler-Abramovich L., Das D., The effects of a short self-assembling peptide on the physical and biological properties of biopolymer hydrogels, <i>Parmaceutics</i> , 2021, 13(10), 1602
38.	Diez-Pascual A.M., State of the art in the antibacterial and antiviral applications of carbon-based polymeric nanocomposites, <i>International Journal of Molecular Sciences</i> , 2021, 22(19), 10511
39.	Moradi S., Hamed H., Tonelli A.E., King M.W., Chitosan/graphene oxide composite films and their biomedical and drug delivery applications: A review, <i>Applied Sciences Switzerland</i> , 2021, 11(17), 7776
40.	De oliveira A.C., Souza P.R., Vilsinski B.H., Valente A.J.M., Martins A.F., Thermo-and Ph-responsive gelatin/polyphenolic tannin/graphene oxide hydrogels for efficient methylene blue delivery, <i>Molecules</i> , 2021, 26(15), 4529
41.	Diez-Pascual A.M., Luceno-Sanchez J.A., Antibacterial activity of polymer nanocomposites incorporating graphene and its derivatives: A state of art, <i>Polymers</i> , 2021, 13(3), 2105
42.	Berrio, M.E., Oñate, A., Salas, A., Fernández, K., Meléndrez, M.F., Synthesis and applications of graphene oxide aerogels in bone tissue regeneration: a review(2021) <i>Materials Today Chemistry</i> , 20, art. no. 100422
43.	Idumah C.I., Progress in polymer nanocomposites for bone regeneration and engineering, <i>Polymers and Polymer Composites</i> , 2021, 29(5), 509-527
44.	Yang Y., Shen Y., Graphene Oxide Nanosheet Assisted Porous Chitosan Sponge for Hemostatic Applications, <i>Proceedings of the 16th Annual IEEE International Conference on Nano Micro Engineered and Molecular Systems NEMS 2021</i> , 293-296, 9451400
45.	Kheiri Mollaqaesem, V., Asefnejad, A., Nourani, M.R., Goodarzi, V., Kalae, M.R, Incorporation of graphene oxide and calcium phosphate in the PCL/PHBV core-shell nanofibers as bone tissue scaffold(2021) <i>Journal of Applied Polymer Science</i> , 138 (6), art. no. 49797
46.	Vlasceanu G.M., Ionita M., Iovu H., Physico-chemical enhancements of natural biopolymer matrices by reinforcing with complex carbonaceous-oxidic fillers, <i>UPB Scientific Bulletin Series B Chemistry and Materials Science</i> , 2021, 83(2), 133-146
47.	Nowroozi, N., Faraji, S., Nouralishahi, A., Shahrousvand, M., Biological and structural properties of graphene oxide/curcumin nanocomposite incorporated chitosan as a scaffold for wound healing application(2021) <i>Life Sciences</i> , 264, art. no. 118640
48.	Azizi, M., Kalantar, M., Nezafati, N., Zamanian, A., Fabrication, characterization, and in vitro bioactivity evaluation of freeze-cast highly porous hardystonite ceramic reinforced by graphene oxide as a novel bone scaffold(2021) <i>Journal of the Australian Ceramic Society</i>
49.	Bai R.G., Tuvikene R., Biomedical applications of graphene, <i>Handbook of Carbon Based Nanomaterials</i> , 2021, 551-571
50.	Molino B.Z., Fukuda J., Molino P.J., Wallace G.G., Redox Polymers for Tissue Engineering, <i>Frontiers in Medical technology</i> , 2021, 3, 669763
51.	Dobrzanski L.A., Dobrzanski L.B., Dobrzanska-Daniliewicz A.D., Dobrzanska J., Kraszewska M., Ethical imperatives towards the development prospects of the triad of Dentistry 4.0, dental engineering, and nanoengineering, <i>Ethics in Nanotechnology Social Sciences and Philosophical Aspects</i> , 2021, vol. II, 2, 157-247
52.	Zhang, Y., Wu, D., Zhao, X., Pakvasa, M., Tucker, A.B., Luo, H., Qin, K.H., Hu, D.A., Wang, E.J., Li, A.J., Zhang, M., Mao, Y., Sabharwal, M., He, F., Niu, C., Wang, H., Huang, L., Shi, D., Liu, Q., Ni, N., Fu, K., Chen, C., Wagstaff, W., Reid, R.R., Athiviraham, A., Ho, S., Lee, M.J., Hynes, K., Strelzow, J., He, T.-C., El Dafrawy, M., Stem Cell-Friendly Scaffold Biomaterials: Applications for Bone Tissue Engineering and Regenerative Medicine, 2020, <i>Frontiers in Bioengineering and Biotechnology</i> , 8, art. No. 598607.
53	Murali, V.P., Fujiwara, T., Gallop, C., Wang, Y., Wilson, J.A., Atwill, M.T., Kurakula, M., Bumgardner, J.D., Modified electrospun chitosan membranes for controlled release of simvastatin, 2020, <i>International Journal of Pharmaceutics</i> , 584, art. no. 119438
54	Majkowska, A., Redondo-Gómez, C., Rice, A., Gonzalez, M., Inostroza-Brito, K.E., Collin, E.C., Rodriguez-Cabello, J.C., Del Rio Hernandez, A.E., Solito, E., Mata, A., Interfacial Self-Assembly to Spatially Organize Graphene Oxide Into Hierarchical and Bioactive Structures, 2020, <i>Frontiers in Materials</i> , 7, art. no. 167
55	Melo, S.F., Neves, S.C., Pereira, A.T., Borges, I., Granja, P.L., Magalhães, F.D., Gonçalves, I.C., Incorporation of graphene oxide into poly( $\epsilon$ -caprolactone) 3D printed fibrous scaffolds improves their antimicrobial properties, 2020, <i>Materials Science and Engineering C</i> , 109, art. no. 110537
56	Tavakoli, M., Karbasi, S., SoleymaniEil Bakhtiari, S., Evaluation of physical, mechanical, and biodegradation of chitosan/graphene oxide composite as bone substitutes, 2020, <i>Polymer-Plastics Technology and Materials</i> , 59 (4), pp. 430-440

57	Sivashankari, P.R., Prabakaran, M., Three-dimensional porous scaffolds based on agarose/chitosan/graphene oxide composite for tissue engineering, 2020, International Journal of Biological Macromolecules, 146, pp. 222-231
58	Aram, E., Mehdipour-Ataei, S., Carbon-based nanostructured composites for tissue engineering and drug delivery, 2020, International Journal of Polymeric Materials and Polymeric Biomaterials
59	Palmieri, V., Lattanzi, W., Perini, G., Augello, A., Papi, M., De Spirito, M., 3D-printed graphene for bone reconstruction, 2020, 2D Materials, 7 (2), art. no. 022004
60	Jabbari, F., Hesaraki, S., Houshmand, B., The physical, mechanical, and biological properties of silk fibroin/chitosan/reduced graphene oxide composite membranes for guided bone regeneration, (2019) Journal of Biomaterials Science, Polymer Edition, 30 (18), pp. 1779-1802.
61	Lovecchio, J., Gargiulo, P., Vargas Luna, J.L., Giordano, E., Sigurjónsson, Ó.E., A standalone bioreactor system to deliver compressive load under perfusion flow to hBMSC-seeded 3D chitosan-graphene templates, (2019) Scientific Reports, 9 (1), art. no. 16854, .
62	Li, J., Liu, X., Crook, J.M., Wallace, G.G., 3D graphene-containing structures for tissue engineering, (2019) Materials Today Chemistry, 14, art. no. 100199, .
63	Dinescu, S., Ionita, M., Ignat, S.-R., Costache, M., Hermenean, A., Graphene oxide enhances chitosan-based 3D scaffold properties for bone tissue engineering, (2019) International Journal of Molecular Sciences, 20 (20), art. no. 5077, .
64	Zhang, H.-P., Yang, B., Wang, Z.M., Xie, C., Tang, P., Bian, L., Dong, F., Tang, Y., Porous graphene oxide/chitosan nanocomposites based on interfacial chemical interactions, (2019) European Polymer Journal, 119, pp. 114-119.
65	Aidun, A., SafaeiFiroozabady, A., Moharrami, M., Ahmadi, A., Haghighipour, N., Bonakdar, S., Faghihi, S., Graphene oxide incorporated polycaprolactone/chitosan/collagen electrospun scaffold: Enhanced osteogenic properties for bone tissue engineering, (2019) Artificial Organs, 43 (10), pp. E264-E281.
66	Mirza, E.H., Khan, A.A., Al-Khureif, A.A., Saadaldin, S.A., Mohamed, B.A., Fareedi, F., Khan, M.M., Alfayez, M., Al-Fotawi, R., Vallittu, P.K., Mahmood, A., Characterization of osteogenic cells grown over modified grapheneoxide-biostable polymers, (2019) Biomedical Materials (Bristol), 14 (6), art. no. 065004, .
67	Hou, J., Liu, B., Zhang, Y., Lu, X., Liu, C., Tang, Y., Wang, M., Dong, F., Ni, Y., Zhang, H., Atomistic understanding of interfacial interactions between bone morphogenetic protein-7 and graphene with different oxidation degrees, (2019) Materials Chemistry Frontiers, 3 (9), pp. 1900-1908.
68	Ignat, S.-R., Lazăr, A.D., Şelaru, A., Samoilă, I., Vlăsceanu, G.M., Ioniță, M., Radu, E., Dinescu, S., Costache, M., Versatile biomaterial platform enriched with graphene oxide and carbon nanotubes for multiple tissue engineering applications, (2019) International Journal of Molecular Sciences, 20 (16), art. no. 3868, .
69	Nazari, H., Azadi, S., Hatamie, S., Zomorrod, M.S., Ashtari, K., Soleimani, M., Hosseinzadeh, S., Fabrication of graphene-silver/polyurethane nanofibrous scaffolds for cardiac tissue engineering, (2019) Polymers for Advanced Technologies, 30 (8), pp. 2086-2099.
70	Cabral, C.S.D., Miguel, S.P., de Melo-Diogo, D., Louro, R.O., Correia, I.J., In situ green reduced graphene oxide functionalized 3D printed scaffolds for bone tissue regeneration, (2019) Carbon, 146, pp. 513-523.
71	Shamekhi, M.A., Mirzadeh, H., Mahdavi, H., Rabiee, A., Mohebbi-Kalhari, D., BaghabanEslaminejad, M., Graphene oxide containing chitosan scaffolds for cartilage tissue engineering, (2019) International Journal of Biological Macromolecules, 127, pp. 396-405.
72	Narimani, M., Teimouri, A., Shahbazarab, Z., Synthesis, characterization and biocompatible properties of novel silk fibroin/graphene oxide nanocomposite scaffolds for bone tissue engineering application, (2019) Polymer Bulletin, 76 (2), pp. 725-745.
73	Ain, Q.T., Haq, S.H., Alshammari, A., Al-Mutlaq, M.A., Anjum, M.N., The systemic effect of PEG-nGO-induced oxidative stress in vivo in a rodent model, (2019) Beilstein Journal of Nanotechnology, 10, pp. 901-911.
74	Francolini, I., Perugini, E., Silvestro, I., Lopreiato, M., d'Abusco, A.S., Valentini, F., Placidi, E., Arciprete, F., Martinelli, A., Piozzi, A., Graphene oxide oxygen content affects physical and biological properties of scaffolds based on Chitosan/graphene oxide conjugates, (2019) Materials, 12 (7), art. no. 1142, .
75	Bai, R.G., Muthoosamy, K., Manickam, S., Hilal-Alnaqbi, A., Graphene-based 3D scaffolds in tissue engineering: Fabrication, applications, and future scope in liver tissue engineering, (2019) International Journal of Nanomedicine, 14, pp. 5753-5783.
76	Laurenti, M., Cauda, V, Biodegradable polymer nanocomposites for tissue engineering: Synthetic strategies and related applications(2019) Materials for Biomedical Engineering: Absorbable Polymers, pp. 157-198
77	Qin, H., Wang, J., Wang, T., Gao, X., Wan, Q., Pei, X., Preparation and characterization of chitosan/ $\beta$ -glycerophosphate thermal-sensitive hydrogel reinforced by graphene oxide (2018) Frontiers in Chemistry, 6 (NOV), art. no. 565

78	Prasadh, S., Suresh, S., Wong, R., Osteogenic potential of graphene in bone tissue engineering scaffolds (2018) <i>Materials</i> , 11 (8), art. no. 1430
79	Zhao, M., Cao, Y., Gong, H., Sun, Y., Deng, J., Li, D., Wan, R., Gu, H., Enhanced cell growth on 3D graphene scaffolds implanted with nitrogen ions (2018) <i>Biointerphases</i> , 13 (4), art. no. 041001
80	Mohammadrezaei, D., Golzar, H., Rezaei Rad, M., Omid, M., Rashedi, H., Yazdian, F., Khojasteh, A., Tayebi, L., In vitro effect of graphene structures as an osteoinductive factor in bone tissue engineering: A systematic review (2018) <i>Journal of Biomedical Materials Research - Part A</i> , 106 (8), pp. 2284-2343
81	Tylman, M., Pieklarz, K., Owczar, P., Maniukiewicz, W., Modrzejewska, Z., Structure of chitosan thermosensitive gels containing graphene oxide (2018) <i>Journal of Molecular Structure</i> , 1161, pp. 530-535.
82	Dalgic, A.D., Alshemary, A.Z., Tezcaner, A., Keskin, D., Evis, Z., Silicate-doped nano-hydroxyapatite/graphene oxide composite reinforced fibrous scaffolds for bone tissue engineering (2018) <i>Journal of Biomaterials Applications</i> , 32 (10), pp. 1392-1405
83	Scheinpflug, J., Pfeiffenberger, M., Damerau, A., Schwarz, F., Textor, M., Lang, A., Schulze, F., Journey into bone models: A review (2018) <i>Genes</i> , 9 (5), art. no. 247
84	Rashkow, J.T., Lalwani, G., Sitharaman, B., In Vitro Bioactivity of One- and Two-Dimensional Nanoparticle-Incorporated Bone Tissue Engineering Scaffolds (2018) <i>Tissue Engineering - Part A</i> , 24 (7-8), pp. 641-652
85	Qian, Y., Song, J., Zhao, X., Chen, W., Ouyang, Y., Yuan, W., Fan, C., 3D Fabrication with Integration Molding of a Graphene Oxide/Polycaprolactone Nanoscaffold for Neurite Regeneration and Angiogenesis (2018) <i>Advanced Science</i> , 5 (4), art. no. 1700499
86	Han, L., Sun, H., Tang, P., Li, P., Xie, C., Wang, M., Wang, K., Weng, J., Tan, H., Ren, F., Lu, X., Mussel-inspired graphene oxide nanosheet-enwrapped Ti scaffolds with drug-encapsulated gelatin microspheres for bone regeneration (2018) <i>Biomaterials Science</i> , 6 (3), pp. 538-549
87	Pieklarz, K., Tylman, M., Modrzejewska, Z., Applications of Chitosan–Graphene oxide nanocomposites in medical science: A review (2018) <i>Progress on Chemistry and Application of Chitin and its Derivatives</i> , 23, pp. 5-24
88	Ge, Z., Yang, L., Xiao, F., Wu, Y., Yu, T., Chen, J., Lin, J., Zhang, Y., Graphene Family Nanomaterials: Properties and Potential Applications in Dentistry (2018) <i>International Journal of Biomaterials</i> , 2018, art. no. 1539678
89	Cheng, X., Wan, Q., Pei, X., Graphene Family Materials in Bone Tissue Regeneration: Perspectives and Challenges (2018) <i>Nanoscale Research Letters</i> , 13, art. no. 289
90	Sivashankari, P.R., Moorthi, A., Abudhahir, K.M., Prabakaran, M., Preparation and characterization of three-dimensional scaffolds based on hydroxypropyl chitosan-graft-graphene oxide, (2018) <i>International Journal of Biological Macromolecules</i> , 110, pp. 522-530
91	Hermenean, A., Codreanu, A., Herman, H., Balta, C., Rosu, M., Mihali, C.V., Ivan, A., Dinescu, S., Ionita, M., Costache, M., Chitosan-Graphene Oxide 3D scaffolds as Promising Tools for Bone Regeneration in Critical-Size Mouse Calvarial Defects(2017) <i>Scientific Reports</i> , 7 (1), art. no. 16641
92	Orecchioni, M., Bedognetti, D., Newman, L., Fuoco, C., Spada, F., Hendrickx, W., Marincola, F.M., Sgarrella, F., Rodrigues, A.F., Ménard-Moyon, C., Cesareni, G., Kostarelos, K., Bianco, A., G Delogu, L., Single-cell mass cytometry and transcriptome profiling reveal the impact of graphene on human immune cells(2017) <i>Nature Communications</i> , 8 (1), art. no. 1109
93	Ege, D., Kamali, A.R., Boccaccini, A.R, Graphene Oxide/Polymer-Based Biomaterials, (2017) <i>Advanced Engineering Materials</i> , 19 (12), art. no. 1700627
94	Wei, C., Liu, Z., Jiang, F., Zeng, B., Huang, M., Yu, D., Cellular behaviours of bone marrow-derived mesenchymal stem cells towards pristine graphene oxide nanosheets(2017) <i>Cell Proliferation</i> , 50 (5), art. no. e12367
95	Ioniță, M., Vlăsceanu, G.M., Watzlawek, A.A., Voicu, S.I., Burns, J.S., Iovu, H., Graphene and functionalized graphene: Extraordinary prospects for nanobiocomposite materials(2017) <i>Composites Part B: Engineering</i> , 121, pp. 34-57
96	Razavi, M., Zhu, K., Zhang, Y.S, Naturally based and biologically derived nanobiomaterials(2017) <i>Nanobiomaterials Science, Development and Evaluation</i> , pp. 61-86,
97	Russier, J., León, V., Orecchioni, M., Hirata, E., Viridis, P., Fozza, C., Sgarrella, F., Cuniberti, G., Prato, M., Vázquez, E., Bianco, A., Delogu, L.G, Few-Layer Graphene Kills Selectively Tumor Cells from Myelomonocytic Leukemia Patients(2017) <i>Angewandte Chemie - International Edition</i> , 56 (11), pp. 3014-3019
98	RajanUnnithan, A., Ramachandra KurupSasikala, A., Park, C.H., Kim, C.S, A unique scaffold for bone tissue engineering: An osteogenic combination of graphene oxide–hyaluronic acid–chitosan with simvastatin(2017) <i>Journal of Industrial and Engineering Chemistry</i> , 46, pp. 182-191

99	Liu, X., Zhang, X., Wu, K., Yang, W., Jiao, Y., Zhou, C, Influence of the structure of poly (L-lactic acid) electrospun fibers on the bioactivity of endothelial cells: proliferation and inflammatory cytokines expression(2017) <i>Journal of Biomaterials Science, Polymer Edition</i> , 28 (3), pp. 323-335,
100	Sivashankari, P.R., Prabakaran, M., Chitosan/carbon-based nanomaterials as scaffolds for tissue engineering(2017) <i>Biopolymer-Based Composites: Drug Delivery and Biomedical Applications</i> , pp. 381-397
101	Díez-Pascual, A.M., Díez-Vicente, A.L., Multifunctional poly(glycolic acid-co-propylene fumarate) electrospun fibers reinforced with graphene oxide and hydroxyapatite nanorods(2017) <i>Journal of Materials Chemistry B</i> , 5 (22), pp. 4084-4096,
102	Wu, X., Ding, S.-J., Lin, K., Su, J., A review on the biocompatibility and potential applications of graphene in inducing cell differentiation and tissue regeneration(2017) <i>Journal of Materials Chemistry B</i> , 5 (17), pp. 3084-3102,
103	Girão, A.F., Pinto, S., Bessa, A., Gonçalves, G., Henriques, B., Pereira, E., Marques, P.A.A.P. Graphene Oxide: A Unique NanoPlatform to Build Advanced Multifunctional Composites, <i>Advanced 2D Materials</i> , 2016
104	Iglesias, D., Bosi, S., Melchionna, M., da Ros, T., Marchesan, S. The glitter of carbon nanostructures in hybrid/composite hydrogels for medicinal use, <i>Current Topics in Medicinal Chemistry</i> , 16 (18),
105	Nishida, E., Miyaji, H., Kato, A., Takita, H., Iwanaga, T., Momose, T., Ogawa, K., Murakami, S., Sugaya, T., Kawanami, M. Graphene oxide scaffold accelerates cellular proliferative response and alveolar bone healing of tooth extraction socket, <i>International Journal of Nanomedicine</i> , 11, 2016
106	Singh, Z. Applications and toxicity of graphene family nanomaterials and their composites, <i>Nanotechnology, Science and Applications</i> , 9, 2016
107	Sawant, S., Shegokar, R. Bone scaffolds: What's new in nanoparticle drug delivery research?, <i>Nanobiomaterials in Hard Tissue Engineering: Applications of Nanobiomaterials</i> , 2016
108	Bacakova, L., Filova, E., Liskova, J., Kopova, I., Vandrovцова, M., Havlikova, J. Nanostructured materials as substrates for the adhesion, growth, and osteogenic differentiation of bone cells, <i>Nanobiomaterials in Hard Tissue Engineering: Applications of Nanobiomaterials</i> ,
109	Ruan, J., Wang, X., Yu, Z., Wang, Z., Xie, Q., Zhang, D., Huang, Y., Zhou, H., Bi, X., Xiao, C., Gu, P., Fan, X. Enhanced Physiochemical and Mechanical Performance of Chitosan-Grafted Graphene Oxide for Superior Osteoinductivity, <i>Advanced Functional Materials</i> , 26 (7), 2016
110	Zhou, Q., Yang, P., Li, X., Liu, H., Ge, S. Bioactivity of periodontal ligament stem cells on sodium titanate coated with graphene oxide, <i>Scientific Reports</i> , 6, 2016
111	Cornel, B., Herman, H., Rosu, M., Cotoraci, C., Ivan, A., Folk, A., Duka, R., Dinescu, S., Costache, M., Petre, A., Hermenean, A. Homeostasis of blood parameters and inflammatory markers analysis during bone defect healing after scaffolds implantation in mice calvaria defects, <i>Romanian Biotechnological Letters</i> , 22 (6), 2016
112	Heggendorf, F.L., Silva, G.C.C., Cardoso, E.A., Castro, H.C., Gonçalves, L.S., Dias, E.P., Lione, V.O.F., Lutterbach, M.T.S. Initial cytotoxicity assays of media for sulfate-reducing bacteria: An endodontic biopharmaceutical product under development, <i>Dental Materials Journal</i> , 35 (5), 2016
113	Frindy, S., El Kadib, A., Lahcini, M., Primo, A., García, H. Copper nanoparticles supported on graphene as an efficient catalyst for A3 coupling of benzaldehydes, <i>Catalysis Science and Technology</i> , 6 (12), 2016.
114	Hong, J.K., Yun, J., Kim, H., Kwon, S.-M., Three-dimensional culture of mesenchymal stem cells(2015) <i>Tissue Engineering and Regenerative Medicine</i> , 12 (4), pp. 211-221
115	Singh, D., Bae, Y., Singh, D., Won, S.T., Kim, J.H., Han, S.S, Novel chitosan-HEMA-gelatin macroporous scaffold for bone tissue engineering(2015) <i>Journal of Biomaterials and Tissue Engineering</i> , 5 (6), pp. 479-485
116	Ionita, M., Crica, L.E., Tiainen, H., Haugen, H.J., Vasile, E., Dinescu, S., Costache, M., Iovu, H., Gelatin-poly(vinyl alcohol) porous biocomposites reinforced with graphene oxide as biomaterials(2015) <i>Journal of Materials Chemistry B</i> , 4 (2), pp. 282-291
117	Orecchioni, M., Cabizza, R., Bianco, A., Delogu, L.G., Graphene as cancer theranostic tool: Progress and future challenges(2015) <i>Theranostics</i> , 5 (7), pp. 710-723
118	Terzopoulou, Z., Kyzas, G.Z., Bikiaris, D.N, Recent advances in nanocomposite materials of graphene derivatives with polysaccharides(2015) <i>Materials</i> , 8 (2), pp. 652-683
119	Nurunnabi, M., Parvez, K., Nafijjaman, M., Revuri, V., Khan, H.A., Feng, X., Lee, Y.-K., Bioapplication of graphene oxide derivatives: Drug/gene delivery, imaging, polymeric modification, toxicology, therapeutics and challenges(2015) <i>RSC Advances</i> , 5 (52), pp. 42141-42161
<b>A.M. Pandele, S. Dinescu, M. Costache, E. Vasile, C. Obreja, H. Iovu, M. Ionita, Preparation and in vitro, bulk, and surface investigation of chitosan/graphene oxide composite films, <i>Polymer Composites</i>, 34 (2013), 2116, 10.1002/pc.22620</b>	

1.	Prasetya N.B.A., Masfufah F.I.S., Ngadiwiyanana N., Yassaroh Y., Wulandari R., pH-sensitive chitosan/graphene oxide films enriched with red cabbage anthocyanins for visual spoilage detection in chicken meat, <i>International Journal of Biological Macromolecules</i> , 2025, 329, 147866
2.	Jain V.P., Jaiswar G., Performance of Graphene Oxide Hydrogel Functionalized with Chitosan and Polyvinyl Alcohol for Enhanced Antibacterial Activities, <i>Chemistry Africa</i> , 2025, 8(4), 1529-1538
3.	Patil R., Alimperti S., Graphene in 3D Bioprinting, <i>Journal of Functional Biomaterials</i> , 2024, 15(4), 82
4.	Sharifi M., Marjani A., Mahdavian L., Shamlouei H.R., Computational Study on Production Mechanism of Nano-Graphene Oxide/Poly Diallyl Dimethyl Ammonium Chloride (NGO/PDADMAC) Nanocomposite, <i>Polycyclic Aromatic Compounds</i> , 2023, 43(2), 1158-1171
5.	Li Y., Lin Z., He X., New nonporous fillers-based hybrid membranes for gas separations and water treatment process, <i>Current Trends and Future Developments on Bio Membranes Modern Approaches in Membrane Technology for Gas Separation and Water Treatment</i> , 2023, 53-105
6.	Ikram H., Al Rashid A., Koc M., Additive manufacturing of smart polymeric composites: Literature review and future perspectives, <i>Polymer Composites</i> , 2022, 43(9), 6355-6380
7.	Verma A., A Perspective on the Potential Material Candidate for Railway Sector Applications: PVA Based Functionalized Graphene Reinforced Composite, <i>Applied Science and Engineering Progress</i> , 2022, 15(2), 5727
8.	Silvestro I., Ciarlantini C., Fracoloni I., Dal Bosco C., Piozzi A., Chitosan-graphene oxide composite membranes for solid-phase extraction of pesticides, <i>International Journal of Molecular Sciences</i> , 2021, 22(16), 8374
9.	Rostami, S., Puza, F., Ucak, M., Ozgur, E., Gul, O., Ercan, U.K., Garipcan, B., Bifunctional sharkskin mimicked chitosan/graphene oxide membranes: Reduced biofilm formation and improved cytocompatibility (2021) <i>Applied Surface Science</i> , 544, art. no. 148828
10.	Bellet, P., Gasparotto, M., Pressi, S., Fortunato, A., Scapin, G., Mba, M., Menna, E., Filippini, F., Graphene-based scaffolds for regenerative medicine (2021) <i>Nanomaterials</i> , 11 (2), art. no. 404, pp. 1-41
11.	Keshvardoostchokami, M., Piri, F., Jafarian, V., Zamani, A., Fabrication and Antibacterial Properties of Silver/Graphite Oxide/Chitosan and Silver/Reduced Graphene Oxide/Chitosan Nanocomposites, 2020, <i>JOM</i> , 72 (12), pp. 4477-4485
12.	Hermenean, A., Codreanu, A., Herman, H., Balta, C., Rosu, M., Mihali, C.V., Ivan, A., Dinescu, S., Ionita, M., Costache, M, Chitosan-Graphene Oxide 3D scaffolds as Promising Tools for Bone Regeneration in Critical-Size Mouse Calvarial Defects(2017) <i>Scientific Reports</i> , 7 (1), art. no. 16641
13.	Yan, H., Jiang, L., Xu, X., Li, Y., Shen, Y., Zhu, S, Ultrastrong composite film of Chitosan and silica-coated graphene oxide sheets(2017) <i>International Journal of Biological Macromolecules</i> , 104, pp. 936-943
14.	Feng, B., Xu, K., Huang, A., Synthesis of graphene oxide/polyimide mixed matrix membranes for desalination(2017) <i>RSC Advances</i> , 7 (4), pp. 2211-2217
15.	Yenier, Z., Seki, Y., Şen, I., Sever, K., Mermer, Ö., Sarikanat, M., Manufacturing and mechanical, thermal and electrical characterization of graphene loaded chitosan composites(2016) <i>Composites Part B: Engineering</i> , 98, pp. 281-287
16.	Frindy, S., El Kadib, A., Lahcini, M., Primo, A., García, H., Copper nanoparticles supported on graphene as an efficient catalyst for A3 coupling of benzaldehydes(2016) <i>Catalysis Science and Technology</i> , 6 (12), pp. 4306-4317
17.	Jin, X., Liu, X., Liu, Q., Li, Y., Manufacture and performance of ethylamine hydroxyethyl chitosan/cellulose fiber in N-methylmorpholine-N-oxide system(2015) <i>Reactive and Functional Polymers</i> , 91-92, pp. 62-70
18.	Cai, Y.-H., Zhao, L.-S., An Investigation of the Effect of Chitosan on Isothermal Crystallization, Thermal Decomposition, and Melt Index of Biodegradable Poly(L-lactic acid), (2015) <i>International Journal of Polymer Science</i> , 2015, art. no. 296380
19.	Justin, R., Chen, B., Strong and conductive chitosan-reduced graphene oxide nanocomposites for transdermal drug delivery(2014) <i>Journal of Materials Chemistry B</i> , 2 (24), pp. 3759-3770
20.	Li, J., Wang, X., Liu, X., Zhuang, X., Wu, X., Li, J., Manufacture and performance of O-carboxymethyl chitosan sodium salt/cellulose fibers in N-methylmorpholine-N-oxide system, (2014) <i>Fibers and Polymers</i> , 15 (8), pp. 1575-1582
<b>M. Ionita, AM. Pandele, L. Crica, L. Pilan, Improving the thermal and mechanical properties of polysulfone by incorporation of graphene oxide, <i>Composites Part B-Engineering</i>, 59 (2014), 133-139, 10.1016/j.compositesb.2013.11.018</b>	
1.	Motloutsi M.L., Madito M.J., Matebese F., Managa M., Moutloali R.M., Grafting of N-aminoethyl piperazine propane sulfonate onto graphene oxide to improve PES ultrafiltration antifouling and selectivity properties, <i>Journal of Water Process Engineering</i> , 2025, 76, 108189
2.	Casetta J., Baldo H., Soussan L., Bechelany M., Miele P., Membranes Fouling Propensity of PSF/GO Hollow Fiber Mixed Matrix Membranes for Water Treatment Ultrafiltration Application, <i>Chemsuschem</i> , 2025, 18(7), e202401061

3.	Salah Z., Bahttacharyya S., Cozzolio V., Amar R.B., Chakraborty S., Graphene oxide- polysulfone nanocomposite membranes for diclofenac removal, <i>Emergent Materials</i> , 2025, 8(3), 1671-1685
4.	Ghorab S., Saljoughi E., Malekzadeh Dirin A., Dehydration of bioethanol using novel polysulfone (PSF)/nonionic surfactants hybrid membranes, <i>Separation and Purification Technology</i> , 2025, 354, 128978
5.	Madhura A., Cherian C.T., Patel N., Facile fabrication of mesh-free, GO-reinforced ZrO <sub>2</sub> -based separators for advanced alkaline water electrolysis, <i>Journal of the Korean Ceramic Society</i> , 2025
6.	Saxena P., Shukla P., Review—A Comparative Analysis of the Fundamental Characteristics and Uses of the Amorphous Polymers Poly(sulfone) and Poly(methyl methacrylate), <i>Journal of the Electrochemical Society</i> , 2025, 172(1), 017506
7.	Viriya V., Chew T.L., Ng Q.H., Ho C.D., Jawad Z.A., Mixed matrix membranes incorporated with small pore zeolite UZM-5 for enhanced CO <sub>2</sub> /CH <sub>4</sub> separation, <i>results in Engineering</i> , 2024, 24, 102951
8.	Marx J., Back J., Netzer F., Bakry R., Spruck M., Comprehensive characterisation of multi-channel mixed-matrix membranes and impact of water matrix variability on micropollutant removal, <i>Case Studies in Chemical and Environmental Engineering</i> , 2024, 10, 100930
9.	Wang T., Gao X., Zhu M., Wu J., Bao N., Strong and tough graphene/PVC composites with well dispersed graphene via dropwise coagulation and melt blending methods, <i>Composites Communications</i> , 2024, 51, 102083
10.	Motloutsi M.L., Matebese F., Motsa M.M., Managa M., Moutloali R.M., Mitigating Membrane Fouling in Abattoir Wastewater Treatment: Integration of Pretreatment Step with Zwitterion Modified Graphene Oxide–Polyethersulfone Composite Membranes, <i>Membranes</i> , 2024, 14(11), 227
11.	Chang C.N., Chung J.J., Jiang H.Y., Ding S.J., Calcium Silicate Promoting the Upcycling Potential of Polysulfone Medical Waste in Load-Bearing Applications, <i>Journal of Functional Biomaterials</i> , 2024, 15(11), 323
12.	Cadore J., Fabro L.F., Giubel G.O.M., Pires M.J.R., Briao V.B., Synthesis of composite membranes modified with graphene oxide and polyethylene glycol for the removal of emerging contaminants from water, <i>Colloids and Surfaces A Physicochemical and Engineering Aspects</i> , 2024, 696, 134348
13.	Tulugan K., Tian P., Li X., Zhang X., Zhao Y., PSF/GO filtering membrane fabricated by electro-spinning applied on arsenic contaminated underground water, <i>Journal of Engineering Research Kuwait</i> , 2024, 12(3), 310-320
14.	Sherif G., Chukov D.I., Tcherdyntsev .V., Shuga Y.M., Kabachkov E.N., Surface Treatment Effect on the Mechanical and Thermal Behavior of the Glass Fabric Reinforced Polysulfone, <i>Polymers</i> , 16(6), 864
15.	Mokhtar M.M., Evaluating the physical-mechanical performance of cement mortar reinforced with metakaolin/graphene oxide dual nano-additives, <i>Innovative Infrastructure Solutions</i> , 2024, 9(3), 75
16.	Nabeeh A., Abdalla O., Rehman A., Mahmoud K., Abdala A., Ultrafiltration polyethersulfone-Mxene mixed matrix membranes with enhanced air dehumidification and oil-water separation performance, <i>Separation and Purification Technology</i> , 2024, 346, 127285
17.	Liu S., El-Angbawi A., Ji R., Rosa V., Silikas N., Optical effects of graphene addition on adhesives for orthodontic lingual retainers, <i>European Journal of Oral Sciences</i> , 2024, 132(1), e12966
18.	Casetta J., Virapin E., Pochat-Bohatier C., Bechelany M., Miele P., Polymeric hollow fiber (HF) mixed matrix membranes (MMMs): Mutual effect of graphene oxide (GO) and polyvinylpyrrolidone (PVP) on nano-structuration, <i>Colloids and Surfaces A, Physicochemical and Engineering Aspects</i> , 2024, 681, 132805
19.	Kumari P., Sainath K., Biswas S., Bellare J., Risk mitigation to healthcare workers against viral and bacterial bioaerosol load in laparoscopic surgical exhaust with a new flow mode in hollow fiber membranes-based filter, <i>Journal of Hazardous Materials</i> , 2024, 461, 132517
20.	Zhao W., Jin X., Chen K., Fan Z., Xiao C., Facile method to fabricate robust homogeneous braid-reinforced cellulose acetate hollow fiber membranes with enhanced physiochemical properties, <i>Cellulose</i> , 2024, 31(1), 395-410
21.	Bibi N., Qazi R.A., Kanwal A., Hassan W., Wail Z., Nanomaterials in water purification/desalination, <i>Handbook of Nanomaterials Volume 2 Biomedicine Environment Food and Agriculture</i> , 2024, 549-578
22.	Gordano A., Hybrid inorganic membranes, <i>Current Trends and Future Developments on Bio Membranes Advances on Membrane Engineering</i> , 2024, 131-174
23.	Shekhar Samanta N., Mondal P., Dhara S., Bora U., Purkait M.K., Fabrication of LD-slag derived zeolite Y coated polysulfone (PSf) membrane for decontamination of groundwater, <i>Chemical Engineering Journal</i> , 2023, 478, 147330
24.	Gu S., Zhu W., Sun B., Wang D., Zhang L., Construction of rGO@AuNPs incorporated antifouling nanofiltration membrane with elevated filtration performance, <i>Journal of Environmental Chemical Engineering</i> , 2023, 11(5), 110860
25.	Xiang Y., Li M., Qiu B., Liang M., Zou H., Improving the interfacial property of CF composites through constructing multiscale interfacial nanostructures, <i>Polymer</i> , 2023, 283, 126175

26.	Chung S., Park S.A., Park S.B., Koo J.M., Park J., Biobased super engineering plastic nanocomposite of cellulose nanofibers and isosorbide, <i>Polymer Degradation and Stability</i> , 2023, 215, 110445
27.	Cahyanto A., Martins M.V.S., Bianchi O., Echeverrigaray S.G., Rosa V., Graphene oxide increases PMMA's resistance to fatigue and strength degradation, <i>Dental Materials</i> , 2023, 39(9), 763-769
28.	Yu Y., Hu Y., Song X., Cao Y., Xiang M., Investigation on Nanocomposites of Polysulfone and Different Ratios of Graphene Oxide with Structural Defects Repaired by Cellulose Nanocrystals, <i>Polymers</i> , 2023, 15(18), 3821
29.	Wijiyanti R., Caralin I.S., Widyanto A.R., Nomura M., Widiastuti N., Evaluation of different carbon-modified zeolite derivatives preparation methods as a filler in mixed matrix membrane on their gas separation performance, <i>Microporous and Mesoporous Materials</i> , 2023, 359, 112650
30.	Cernencu A.I., Vlasceanu G.M., Serafim A., Pircalabioru G., Ionita M., 3D double-reinforced graphene oxide - nanocellulose biomaterial inks for tissue engineered constructs, <i>RSC Advances</i> , 2023, 13(34), 24053-24063
31.	Al-Senani G.M., Zayed M., Nasr M., Shaban M., Mohamed F., Flexible Electrode Based on PES/GO Mixed Matrix Woven Membrane for Efficient Photoelectrochemical Water Splitting Application, <i>Membranes</i> , 2023, 13(7), 653
32.	Anbarasan R., Vishnu K.D., Tung K.L., Synthesis and characterization of polysulfone-graft-poly(vinylchloride)-graft-2-methylimidazole membranes with Cu <sub>2</sub> O nanoparticles, <i>Journal of Thermoplastic Composite Materials</i> , 2023, 36(6), 2265-2284
33.	Dutta N., Maji T.K., Development of waste rice husk/PVC/GO nanocomposite using TA–CaO adduct and ESO as green additives, <i>Journal of Thermoplastic Composite Materials</i> , 2023, 36(5), 2212-2232
34.	Oprea M., Voicu S.I., Cellulose Acetate-Based Materials for Water Treatment in the Context of Circular Economy, <i>Water Switzerland</i> , 2023, 15(10), 1860
35.	Kausar A., Ahmad I., Eisa M.H., Maaza M., Graphene Nanocomposites in Space Sector—Fundamentals and Advancements, <i>C Journal of Carbon Research</i> , 2023, 9(1), 29
36.	Kim Y.D., Lee S., Improving the Properties of PPS/PSU Blends Using High Intensity Ultrasound, <i>Polymer Korea</i> , 2023, 47(1), 42-48
37.	Kausar A., Polymeric nanocomposites reinforced with noncovalently bonded fullerene, <i>Polymer Fullerene Nanocomposites Design and Applications</i> , 2023, 43-64
38.	Li Y., Lin Z., He X., New nonporous fillers-based hybrid membranes for gas separations and water treatment process, Current Trends and Future Developments on Bio Membranes Modern Approaches in Membrane Technology for Gas Separation and Water Treatment, 2023, 53-105
39.	Lin C.H., Chien M.Y., Chuang Y.C., Sun Y.M., Liu T.Y., Porous Membranes of Polysulfone and Graphene Oxide Nanohybrids for Vanadium Redox Flow Battery, <i>Polymers</i> , 2022, 14(24), 5405
40.	Sun X., Shiraz H., Wong R., Lu J., Meng N., Enhancing the Performance of PVDF/GO Ultrafiltration Membrane via Improving the Dispersion of GO with Homogeniser, <i>Membranes</i> , 2022, 12(12), 1268
41.	Kanjwal M.A., Ghaferi A.A., Graphene Incorporated Electrospun Nanofiber for Electrochemical Sensing and Biomedical Applications: A Critical Review, <i>Sensors</i> , 2022, 22(22), 8661
42.	Zambianchi M., Khaliha S., Bianchi A., Casentini B., Melucci M., Graphene oxide-polysulfone hollow fibers membranes with synergic ultrafiltration and adsorption for enhanced drinking water treatment, <i>Journal of Membrane Science</i> , 2022, 658, 120707
43.	Igder A., Cai W., Luo X., Nosrati A., Raston C.L., Vortex-Fluidic-Mediated Fabrication of Polysulfone Ultrafiltration Membranes Incorporating Graphene Oxide, <i>ACS Applied Polymer Materials</i> , 2022, 4(6), 4131-4143
44.	Yu Y., Liang Y., Zhang Y., Cao Y., Xiang M., Characterizations and performances of polysulfone/graphene oxide with structural defects repaired by cellulose nanocrystals, <i>Polymer Composites</i> , 2022, 43(6), 3446-3456
45.	Siddique T., Balu R., Mata J., Dutta N.K., Choudhury N.R., Electrospun Composite Nanofiltration Membranes for Arsenic Removal, <i>Polymers</i> , 2022, 14(10) 1980
46.	Humbe S.S., Joshi G.M., Deshmukh R.R., Dhanumalayan E., Kaleemulla S., Quantification of pre- and post-air plasma-treated graphene oxide dispersed polymer blends for high dielectric applications, <i>New Journal of Chemistry</i> , 2022, 46(20), 9909-9922
47.	Rastegar S., Montazeri A., Atomistic insights into the toughening role of surface-treated boron nitride nanosheets in PLA-based nanocomposites, <i>European Polymer Journal</i> , 2022, 168, 111071
48.	Swain S.S., Unnikrishnan L., Mohanty S., Nayak S.K., Insight into mechanical, thermal, and chemical stability of polysulfone-based membranes for the separation of O <sub>2</sub> /N <sub>2</sub> , <i>Korean Journal of Chemical Engineering</i> , 2022, 39(3), 785-797

49.	Mohammadsalih Z.G., Sadeq N.S., Structure and properties of polystyrene/graphene oxide nanocomposites, Fullerenes Nanotubes and Carbon Nanostructures, 2022, 30(3), 373-384
50.	Gordano A., Polymer-based nano-enhanced microfiltration/ultrafiltration membranes, Advancement in Polymer Based Membranes for Water Remediation, 2022, 81-118
51.	Sagar R., Gaur M.S., Kushwah V., Piliptou D.G., Rogachev A.A., Preparation, characterization and microhardness measurements of hybrid nanocomposites based on PMMA + P(VDF-TrFE) and graphene oxide, polymer Bulletin, 2021, 78(12), 7279-7300
52.	Lu Z., Li M., Liang M., Zou H., Ren X., Improving interfacial strength of epoxy composites by constructing “palm-tree”-like structure on carbon fiber, Polymer Composites, 2021, 42(9), 4617-4629
53.	Aloaimi A.M., Polysulfone membranes based hybrid nanocomposites for the adsorptive removal of hg(II) ions, Polymers, 2021, 13(16), 2792
54.	Irshad H.M., Hakeem A.S., Raza K., Ali S., Tahir M.S., Design, development and evaluation of thermal properties of polysulphone-cnt/gnp nanocomposites, Nanomaterials, 2021, 11(8), 2080
55.	Chen, L., Tang, Y., Zhao, K., Liu, J., Jiang, X., Sun, Y., Zhao, Y., Tan, Q., Yang, Z., Wu, Z., High water-absorbent and fast-expanding PMMA bone cement with double-bridged structure (2021) Journal of Applied Polymer Science, 138 (21), art. No. 50464
56.	Bouchareb, S., Doufnoune, R., Riahi, F., Cherif-Silini, H., Belbahri, L., High performance of polysulfone/graphene oxide-silver nanocomposites with excellent antibacterial capability for medical applications (2021) Materials Today Communications, 27, art. no. 102297
57	Chen, L., Tang, Y., Zhao, K., Liu, J., Jiang, X., Sun, Y., Wu, Z., Rapid Self-Expansion Behavior of the PMMA-Based Bone Cement with P(MMA-AA)-GO Nano-Units (2021) Macromolecular Materials and Engineering, 306 (4), art. no. 2000749
58	Besharat, F., Manteghian, M., Russo, F., Galiano, F., Figoli, A., Abdollahi, M., Lazzeri, A., Investigation of electric field-aligned edge-oxidized graphene oxide nanoplatelets in polyethersulfone matrix in terms of pure water permeation and dye rejection (2021) Polymers for Advanced Technologies, 32 (4), pp. 1531-1547
59	Mamah, S.C., Goh, P.S., Ismail, A.F., Suzaimi, N.D., Yogarathinam, L.T., Raji, Y.O., El-badawy, T.H., Recent development in modification of polysulfone membrane for water treatment application (2021) Journal of Water Process Engineering, 40, art. no. 101835
60	Lungu, A., Cernencu, A.I., Vlasceanu, G.M., Florea, N.M., Ionita, M., Iovu, H., 3D POSS cages decorated 2D graphenic sheets: A versatile platform for silicon-carbonaceous nano-additives design (2021) Composites Part B: Engineering, 207, art. no. 108578
61	Nie, L., Chuah, C.Y., Bae, T.-H., Lee, J.-M., Graphene-Based Advanced Membrane Applications in Organic Solvent Nanofiltration (2021) Advanced Functional Materials, 31 (6), art. no. 2006949
62	Mohammadsalih, Z.G., Inkson, B.J., Chen, B., The effect of dispersion condition on the structure and properties of polystyrene/graphene oxide nanocomposites (2021) Polymer Composites, 42 (1), pp. 320-328
63	Marjani, A., Nakhjiri, A.T., Adimi, M., Jirandehi, H.F., Shirazian, S., Effect of graphene oxide on modifying polyethersulfone membrane performance and its application in wastewater treatment, 2020, Scientific Reports, 10 (1), art. no. 2049
64	Wang, M., Wang, Q., Liang, L., Ding, H., Liang, X., Sun, G., High-content graphene-reinforced polymer with bioinspired multilayer structure, 2020, Journal of Materials Science, 55 (35), pp. 16836-16845
65	Chai, P.V., Law, J.Y., Mahmoudi, E., Mohammad, A.W., Development of iron oxide decorated graphene oxide (Fe <sub>3</sub> O <sub>4</sub> /GO) PSf mixed-matrix membrane for enhanced antifouling behavior, 2020, Journal of Water Process Engineering, 38, art. no. 101673
66	Yang, E., Goh, K., Chuah, C.Y., Wang, R., Bae, T.-H., Asymmetric mixed-matrix membranes incorporated with nitrogen-doped graphene nanosheets for highly selective gas separation, 2020, Journal of Membrane Science, 615, art. no. 118293
67	Mondal, S., Kumar Majumder, S., Fabrication of the polysulfone-based composite ultrafiltration membranes for the adsorptive removal of heavy metal ions from their contaminated aqueous solutions, 2020, Chemical Engineering Journal, 401, art. no. 126036
68	Al-Dhahebi, A.M., Gopinath, S.C.B., Saheed, M.S.M., Graphene impregnated electrospun nanofiber sensing materials: a comprehensive overview on bridging laboratory set-up to industry, 2020, Nano Convergence, 7 (1), art. no. 27
69	Shen, C., Oyadiji, S.O., The processing and analysis of graphene and the strength enhancement effect of graphene-based filler materials: A review, (2020) Materials Today Physics, 15, art. no. 100257

70	Sainath, K., Modi, A., Bellare, J., In-situ growth of zeolitic imidazolate framework-67 nanoparticles on polysulfone/graphene oxide hollow fiber membranes enhance CO <sub>2</sub> /CH <sub>4</sub> separation, 2020, Journal of Membrane Science, 614, art. no. 118506
71	Cadore, J.S., Fabro, L.F., Maraschin, T.G., de Souza Basso, N.R., Pires, M.J.R., Brião, V.B., Bibliometric approach to the perspectives and challenges of membrane separation processes to remove emerging contaminants from water, 2020, Water Science and Technology, 82 (9), pp. 1721-1741
72	Ahmad, M.W., Dey, B., Al Saidi, A.K.A., Choudhury, A., Functionalized-graphene reinforced polyethersulfone nanocomposites with improved physical and mechanical properties, 2020, Polymer Composites, 41 (10), pp. 4104-4116
73	Nisar, M., Thue, P.S., Maghous, M.B., Geshev, J., Lima, E.C., Einloft, S., Polysulfone metal-activated carbon magnetic nanocomposites with enhanced CO <sub>2</sub> capture, 2020, RSC Advances, 10 (57), pp. 34595-34604
74	Xu, P., Hong, J., Qian, X., Xu, Z., Xia, H., Ni, Q.-Q., "Bridge" graphene oxide modified positive charged nanofiltration thin membrane with high efficiency for Mg <sup>2+</sup> /Li <sup>+</sup> separation, 2020, Desalination, 488, art. no. 114522
75	Karimi, A., Rajabi, M., Zahedi, P., Effect of graphene oxide content on morphology and topography of polysulfone-based mixed matrix membrane for permeability and selectivity of carbon dioxide and methane [Einfluss von Graphenoxidgehalt von polysulfonbasierter Mischmatrixmembran auf Morphologie und Topographie für die Permeabilität und Selektivität von Kohlenstoffdioxid und Methan], 2020, Materialwissenschaft und Werkstofftechnik, 51 (8), pp. 1137-1147
76	Zambare, R.S., Dhopte, K.B., Nemade, P.R., Tang, C.Y., Effect of oxidation degree of GO nanosheets on microstructure and performance of polysulfone-GO mixed matrix membranes, 2020, Separation and Purification Technology, 244, art. no. 116865
77	Yang, L., Yang, J., Qin, X., Kan, J., Zeng, F., Zhong, J., Ternary composite films with simultaneously enhanced strength and ductility: Effects of sodium alginate-gelatin weight ratio and graphene oxide content, 2020, International Journal of Biological Macromolecules, 156, pp. 494-503
78	El Haj Assad, M., Bani-Hani, E., Al-Sawafta, I., Issa, S., Hmida, A., Gupta, M., Atiqure, R.S.M., Hidouri, K., Applications of nanotechnology in membrane distillation: A review study, 2020, Desalination and Water Treatment, 192, pp. 61-77
79	Alkindy, M.B., Naddeo, V., Banat, F., Hasan, S.W., Synthesis of polyethersulfone (PES)/GO-SiO <sub>2</sub> mixed matrix membranes for oily wastewater treatment, 2020, Water Science and Technology, 81 (7), pp. 1354-1364
80	Mahmoudi, E., Ng, L.Y., Ang, W.L., Teow, Y.H., Mohammad, A.W., Improving membrane bioreactor performance through the synergistic effect of silver-decorated graphene oxide in composite membranes, 2020, Journal of Water Process Engineering, 34, art. no. 101169
81	Najafi, M., Sadeghi, M., Shamsabadi, A.A., Dinari, M., Soroush, M., Polysulfone Membranes Incorporated with Reduced Graphene Oxide Nanoparticles for Enhanced Olefin/Paraffin Separation, 2020, ChemistrySelect, 5 (12), pp. 3675-3681
82	Kumar, A., Sharma, K., Dixit, A.R., Carbon nanotube- and graphene-reinforced multiphase polymeric composites: review on their properties and applications, 2020, Journal of Materials Science, 55 (7), pp. 2682-2724
83	Chu, Z., Chen, K., Xiao, C., Ling, H., Hu, Z., Performance improvement of polyethersulfone ultrafiltration membrane containing variform inorganic nano-additives, 2020, Polymer, 188, art. no. 122160
84	Harun, N.H., Abidin, Z.Z., Abdullah, A.H., Othaman, R., Sustainable Jatropha oil-based membrane with graphene oxide for potential application in Cu(II) ion removal from aqueous solution, 2020, Processes, 8 (2), art. no. 230
85	Castro-Muñoz, R., The strategy of nanomaterials in polymeric membranes for water treatment: Nanocomposite membranes [La estrategia de los nanomateriales en membranas poliméricas para el tratamiento de agua: Membranas nanocompuestas], 2020, Tecnología y Ciencias del Agua, 11 (1), pp. 410-436
86	Sagar, R., Gaur, M.S., Kushwah, V., Rathore, A., Piliptsov, D.G., Rogachev, A.A., Preparation, characterization and microhardness measurements of hybrid nanocomposites based on PMMA + P(VDF-TrFE) and graphene oxide, 2020, Polymer Bulletin,
87	Besharat, F., Manteghian, M., Russo, F., Galiano, F., Figoli, A., Abdollahi, M., Lazzeri, A., Investigation of electric field-aligned edge-oxidized graphene oxide nanoplatelets in polyethersulfone matrix in terms of pure water permeation and dye rejection, 2020, Polymers for Advanced Technologies
88	Mamah, S.C., Goh, P.S., Ismail, A.F., Suzaimi, N.D., Yogarathinam, L.T., Raji, Y.O., EL-badawi, T.H., Recent development in modification of polysulfone membrane for water treatment application, 2020, Journal of Water Process Engineering, art. no. 101835
89	Akbari, M., Shariaty-Niassar, M., Matsuura, T., Ismail, A.F., Effect of asymmetric functionalized graphene oxide (Janus GO) on young's modulus and glass transition temperature of psf ultrafiltration membrane, (2019) <i>International Journal of Nanoscience and Nanotechnology</i> , 15 (1), pp. 1-10

90	Zhu, Z., Bai, C., Wang, L., Meng, X., Preparation and antifouling property of sulfonated graphene oxide/ polysulfone composite membrane [磺化氧化石墨烯/聚砜复合膜的制备及抗污染性能], (2019) <i>FuheCailiaoXuebao/Acta MateriaeCompositaeSinica</i> , 36 (11), pp. 2515-2521
91	Li, J., Shen, Z., Xu, L., Song, H., Guan, G., Liu, G., Study on the modification of hexamethylenediamine-phenol-based polybenzoxazine resins by halloysite nanotubes, (2019) <i>High Performance Polymers</i> , 31 (9-10), pp. 1204-1216
92	Wang, Y., Yang, J., Ouyang, D., Effect of graphene oxide on mechanical properties of cement mortar and its strengthening mechanism, (2019) <i>Materials</i> , 12 (22), art. no. 3753, .
93	Swain, S.S., Unnikrishnan, L., Mohanty, S., Nayak, S.K., Gas permeation and selectivity characteristics of PSf based nanocomposite membranes, (2019) <i>Polymer</i> , 180, art. no. 121692, .
94	Wijiyanti, R., Ubaidillah, A.N., Gunawan, T., Karim, Z.A., Ismail, A.F., Smart, S., Lin, R., Widiastuti, N., Polysulfone mixed matrix hollow fiber membranes using zeolite templated carbon as a performance enhancement filler for gas separation, (2019) <i>Chemical Engineering Research and Design</i> , 150, pp. 274-288
95	Peña-Bahamonde, J., San-Miguel, V., Baselga, J., Fernández-Blázquez, J.P., Gedler, G., Ozisik, R., Cabanelas, J.C., Effect of polysulfone brush functionalization on thermo-mechanical properties of melt extruded graphene/polysulfone nanocomposites, (2019) <i>Carbon</i> , 151, pp. 84-93
96	Correa, E., Moncada, M.E., Gutiérrez, O.D., Vargas, C.A., Zapata, V.H., Characterization of polycaprolactone/rGO nanocomposite scaffolds obtained by electrospinning, (2019) <i>Materials Science and Engineering C</i> , 103, art. no. 109773
97	Li, J., Shen, Z., Li, H., Xu, L., Song, H., Guan, G., Liu, G., Reinforced properties of polybenzoxazine-based nanocomposites with siloxane benzoxazine-modified halloysite nanotubes, (2019) <i>Journal of Applied Polymer Science</i> , 136 (35), art. no. 47882
98	Larasati, Z.S., Wijiyanti, R., Karim, Z.A., Ismail, A.F., Widiastuti, N., Fabrication of Mixed Matrix Membrane Polysulfone-Zeolite Carbon Composites (ZCC) for Gas Separation, (2019) <i>IOP Conference Series: Materials Science and Engineering</i> , 546 (4), art. no. 042020
99	Li, W., Chuah, C.Y., Nie, L., Bae, T.-H., Enhanced CO <sub>2</sub> /CH <sub>4</sub> selectivity and mechanical strength of mixed-matrix membrane incorporated with NiDOBDC/GO composite, (2019) <i>Journal of Industrial and Engineering Chemistry</i> , 74, pp. 118-125
100	Muntha, S.T., Ajmal, M., Naeem, H., Kausar, A., Zia, M.A., Siddiq, M., Synthesis, Properties, and Applications of Polysulfone/Polyimide Nanocomposite Membrane Reinforced with Silica Nanoparticles, (2019) <i>Polymer Composites</i> , 40 (5), pp. 1897-1910
101	Song, X., Wang, Y., Wang, C., Huang, M., Gul, S., Jiang, H., Solar-Intensified Ultrafiltration System Based on Porous Photothermal Membrane for Efficient Water Treatment, (2019) <i>ACS Sustainable Chemistry and Engineering</i> , 7 (5), pp. 4889-4896
102	Zwane, S., Kuvarega, A.T., Mhlanga, S.D., Dlamini, D.S., Effect of Lantana camara on the Morphology of Polysulfone Membranes for Water Purification, (2019) <i>ChemistrySelect</i> , 4 (2), pp. 559-564
103	Ahmad, N.A., Rozali, S., Sabri, M.F.M., Chee, C.Y., Ibrahim, S., Enhancement of miscibility and thermal properties of linear low density polyethylene (LLDPE)/ polysulfone (PSU) polymer blends by functionalization of LLDPE, (2019) <i>Key Engineering Materials</i> , 796, pp. 22-29
104	Li, W., Samarasinghe, S.A.S.C., Bae, T.-H., Enhancing CO <sub>2</sub> /CH <sub>4</sub> separation performance and mechanical strength of mixed-matrix membrane via combined use of graphene oxide and ZIF-8 (2018) <i>Journal of Industrial and Engineering Chemistry</i> , 67, pp. 156-163
105	Rice, D., Barrios, A.C., Xiao, Z., Bogler, A., Bar-Zeev, E., Perreault, F., Development of anti-biofouling feed spacers to improve performance of reverse osmosis modules (2018) <i>Water Research</i> , 145, pp. 599-607
106	Lim, S., Park, M.J., Phuntsho, S., Mai-Prochnow, A., Murphy, A.B., Seo, D., Shon, H., Dual-layered nanocomposite membrane incorporating graphene oxide and halloysite nanotube for high osmotic power density and fouling resistance (2018) <i>Journal of Membrane Science</i> , 564, pp. 382-393
107	Mahmoudian, M., Kochameshki, M.G., Mahdavi, H., Vahabi, H., Enayati, M., Investigation of structure-performance properties of a special type of polysulfone blended membranes (2018) <i>Polymers for Advanced Technologies</i> , 29 (10), pp. 2690-2700
108	Ravishankar, H., Christy, J., Jegatheesan, V., Graphene oxide (GO)-blended polysulfone (PSf) ultrafiltration membranes for lead ion rejection (2018) <i>Membranes</i> , 8 (3), art. no. 77
109	Rezazazemi, M., Dashti, A., RiasatHarami, H., Hajilari, N., Inamuddin, Fouling-resistant membranes for water reuse (2018) <i>Environmental Chemistry Letters</i> , 16 (3), pp. 715-763
110	Kasar, A.K., Menezes, P.L., Synthesis and recent advances in tribological applications of graphene (2018) <i>International Journal of Advanced Manufacturing Technology</i> , 97 (9-12), pp. 3999-4019

111	Feijani, E.A., Tavassoli, A., Mahdavi, H., Molavi, H., Effective gas separation through graphene oxide containing mixed matrix membranes (2018) <i>Journal of Applied Polymer Science</i> , 135 (21), art. no. 46271
112	Sahraei, R., Shahalizade, T., Ghaemy, M., Mahdavi, H., Fabrication of cellulose acetate/Fe <sub>3</sub> O <sub>4</sub> @GO-APTS-poly(AMPS-co-MA) mixed matrix membrane and its evaluation on anionic dyes removal (2018) <i>Cellulose</i> , 25 (6), pp. 3519-3532
113	Ursino, C., Castro-Muñoz, R., Drioli, E., Gzara, L., Albeirutty, M.H., Figoli, A., Progress of nanocomposite membranes for water treatment (2018) <i>Membranes</i> , 8 (2), art. no. 18
114	Makhetha, T.A., Moutloali, R.M., Antifouling properties of Cu(tpa)@GO/PES composite membranes and selective dye rejection (2018) <i>Journal of Membrane Science</i> , 554, pp. 195-210
115	Ravishankar, H., Roddick, F., Navaratna, D., Jegatheesan, V., Preparation, characterisation and critical flux determination of graphene oxide blended polysulfone (PSf) membranes in an MBR system (2018) <i>Journal of Environmental Management</i> , 213, pp. 168-179
116	Sivashankari, P.R., Moorthi, A., Abudhahir, K.M., Prabaharan, M., Preparation and characterization of three-dimensional scaffolds based on hydroxypropyl chitosan-graft-graphene oxide (2018) <i>International Journal of Biological Macromolecules</i> , 110, pp. 522-530
117	Wang, J., Jin, X., Zhang, X., Xia, L., Li, C., Wu, H., Guo, S., Achieving high-performance poly (styrene-b-ethylene-ranbutylene-b-styrene) nanocomposites with tannic acid functionalized graphene oxide (2018) <i>Composites Science and Technology</i> , 158, pp. 137-146
118	Selakjani, P.P., Peyravi, M., Jahanshahi, M., Hoseinpour, H., Rad, A.S., Khalili, S, Strengthening of polysulfone membranes using hybrid mixtures of micro- and nano-scale modifiers (2018) <i>Frontiers of Chemical Science and Engineering</i> , 12 (1), pp. 174-183
119	Ioniță, M., Crică, L.E., Voicu, S.I., Dinescu, S., Miculescu, F., Costache, M., Iovu, H., Synergistic effect of carbon nanotubes and graphene for high performance cellulose acetate membranes in biomedical applications (2018) <i>Carbohydrate Polymers</i> , 183, pp. 50-61
120	Meng, N., Zhao, W., Shamsaei, E., Wang, G., Zeng, X., Lin, X., Xu, T., Wang, H., Zhang, X., A low-pressure GO nanofiltration membrane crosslinked via ethylenediamine (2018) <i>Journal of Membrane Science</i> , 548, pp. 363-371
121	Huang, A., Feng, B., Synthesis of novel graphene oxide-polyimide hollow fiber membranes for seawater desalination (2018) <i>Journal of Membrane Science</i> , 548, pp. 59-65
122	Badrinezhad, L., Ghasemi, S., Azizian-Kalandaragh, Y., Nematollahzadeh, A., Preparation and characterization of polysulfone/graphene oxide nanocomposite membranes for the separation of methylene blue from water (2018) <i>Polymer Bulletin</i> , 75 (2), pp. 469-484
123	Muntha, S.T., Ajmal, M., Naeem, H., Kausar, A., Zia, M.A., Siddiq, M., Synthesis, Properties, and Applications of Polysulfone/Polyimide Nanocomposite Membrane Reinforced with Silica Nanoparticles (2018) <i>Polymer Composites</i> , . Article in Press
124	Ojijo, V., Sinha Ray, S., Processing Nanocomposites Based on Engineering Polymers: Polyamides and Polyimides (2018) <i>Springer Series in Materials Science</i> , 278, pp. 27-73.
125	Kang, Y., Obaid, M., Jang, J., Ham, M.-H., Kim, I.S., Novel sulfonated graphene oxide incorporated polysulfone nanocomposite membranes for enhanced-performance in ultrafiltration process (2018) <i>Chemosphere</i> , 207, pp. 581-589
126	Chen, K., Xiao, C., Huang, Q., Liu, H., Tang, Y., Fabrication and properties of graphene oxide-embedded cellulose triacetate RO composite membrane via melting method (2018) <i>Desalination</i> , 425, pp. 175-184
127	Silibin, M.V., Bystrov, V.S., Karpinsky, D.V., Nasani, N., Goncalves, G., Gavrilin, I.M., Solnyshkin, A.V., Marques, P.A.A.P., Singh, B., Bdikin, I.K, Local mechanical and electromechanical properties of the P(VDF-TrFE)-graphene oxide thin films (2017) <i>Applied Surface Science</i> , 421, pp. 42-51
128	Papageorgiou, D.G., Kinloch, I.A., Young, R.J., Mechanical properties of graphene and graphene-based nanocomposites (2017) <i>Progress in Materials Science</i> , 90, pp. 75-127
129	Mahmoudian, M., Balkanloo, P.G., Clay-hyperbranched epoxy/polyphenylsulfone nanocomposite membranes (2017) <i>Iranian Polymer Journal (English Edition)</i> , 26 (9), pp. 711-720
130	Pouresmaeel-Selkajani, P., Jahanshahi, M., Peyravi, M., Mechanical, thermal, and morphological properties of nanoporous reinforced polysulfone membranes (2017) <i>High Performance Polymers</i> , 29 (7), pp. 759-771
131	Kibechu, R.W., Ndinteh, D.T., Msagati, T.A.M., Mamba, B.B., Sampath, S., Effect of incorporating graphene oxide and surface imprinting on polysulfone membranes on flux, hydrophilicity and rejection of salt and polycyclic aromatic hydrocarbons from water (2017) <i>Physics and Chemistry of the Earth</i> , 100, pp. 126-134
132	Ji, Y., Ke, J., Duan, F., Chen, J., Preparation and application of novel multi-walled carbon nanotubes/ polysulfone nanocomposite membrane for chiral separation (2017) <i>Desalination and Water Treatment</i> , 87, pp. 179-187

134	Ioniță, M., Vlăsceanu, G.M., Watzlawek, A.A., Voicu, S.I., Burns, J.S., Iovu, H, Graphene and functionalized graphene: Extraordinary prospects for nanobiocomposite materials (2017) <i>Composites Part B: Engineering</i> , 121, pp. 34-57,
135	Fryczkowska, B., Biniś, D., Ślusarczyk, C., Fabia, J., Janicki, J., Influence of graphene oxide on the properties of composite polyacrylonitrile membranes (2017) <i>Desalination and Water Treatment</i> , 81, pp. 67-79
136	Ammar, A., Elzatahry, A., Al-Maadeed, M., Alenizi, A.M., Huq, A.F., Karim, A, Nanoclay compatibilization of phase separated polysulfone/polyimide films for oxygen barrier (2017) <i>Applied Clay Science</i> , 137, pp. 123-134
137	Pouresmaeel-Selakjani, P., Jahanshahi, M., Peyravi, M., Synthesis of cellulose/silica nanocomposite through electrostatic interaction to reinforce polysulfone membranes (2017) <i>Cellulose</i> , 24 (3), pp. 1333-1353
138	Zambare, R.S., Dhopte, K.B., Patwardhan, A.V., Nemade, P.R, Polyamine functionalized graphene oxide polysulfone mixed matrix membranes with improved hydrophilicity and anti-fouling properties (2017) <i>Desalination</i> , 403, pp. 24-35
139	Yang, M., Zhao, C., Zhang, S., Li, P., Hou, D., Preparation of graphene oxide modified poly(m-phenylene isophthalamide) nanofiltration membrane with improved water flux and antifouling property (2017) <i>Applied Surface Science</i> , 394, pp. 149-159
140	Kaleekkal, N.J., Thanigaivelan, A., Rana, D., Mohan, D, Studies on carboxylated graphene oxide incorporated polyetherimide mixed matrix ultrafiltration membranes (2017) <i>Materials Chemistry and Physics</i> , 186, pp. 146-158
141	Vun, C.P., Mohammad, A.W., Haan, T.Y., Mahmoudi, E, Evaluation of Iron oxide decorated on graphene oxide (FE <sub>3</sub> O <sub>4</sub> /GO) nanohybrid incorporated in PSF membrane at different molar ratios for Congo red rejection (2017) <i>Jurnal Teknologi</i> , 79 (1-2), pp. 73-81
142	Mokkapat, V.R.S.S., Koseoglu-Imer, D.Y., Yilmaz-Deveci, N., Mijakovic, I., Koyuncu, I., Membrane properties and anti-bacterial/anti-biofouling activity of polysulfone-graphene oxide composite membranes phase inverted in graphene oxide non-solvent (2017) <i>RSC Advances</i> , 7 (8), pp. 4378-4386
143	Wu, X., Field, R.W., Wu, J.J., Zhang, K, Polyvinylpyrrolidone modified graphene oxide as a modifier for thin film composite forward osmosis membranes (2017) <i>Journal of Membrane Science</i> , 540, pp. 251-260
144	Feng, B., Xu, K., Huang, A, Synthesis of graphene oxide/polyimide mixed matrix membranes for desalination (2017) <i>RSC Advances</i> , 7 (4), pp. 2211-2217
145	Golpour, M., Pakizeh, M., Development of a new nanofiltration membrane for removal of kinetic hydrate inhibitor from water (2017) <i>Separation and Purification Technology</i> , 183, pp. 237-248
146	Chen, Y., Feng, Y., Zhao, J., Shen, J., Feng, M., Oil bleed from elastomeric thermal silicone conductive pads, <i>Frontiers of Chemical Science and Engineering</i> , 10 (4), 2016
147	Jhaveri, J.H., Murthy, Z.V.P., Nanocomposite membranes, <i>Desalination and Water Treatment</i> , 57(55), 2016
148	Igbinigun, E., Fennell, Y., Malaisamy, R., Jones, K.L., Morris, V., Graphene oxide functionalized polyethersulfone membrane to reduce organic fouling, <i>Journal of Membrane Science</i> , 514, 2016
149	Sharma, S., Kothiyal, N.C., Comparative effects of pristine and ball-milled graphene oxide on physico-chemical characteristics of cement mortar nanocomposites, <i>Construction and Building Materials</i> , 115, 2016
150	Wang, H., Ma, L., Gan, M., (...), Wang, H., Wang, S., Design and assembly of reduced graphene oxide/polyaniline/urchin-like mesoporous TiO <sub>2</sub> spheres ternary composite and its application in supercapacitors, <i>Composite Part B: Engineering</i> , 92, 2016
11	Meng, N., Priestley, R.C.E., Zhang, Y., Wang, H., Zhang, X., The effect of reduction degree of GO nanosheets on microstructure and performance of PVDF/GO hybrid membranes, <i>Journal of Membrane Science</i> , 501, 2016
152	Ammar, A., Al-Enizi, A.M., AlMaadeed, M.A., Karim, A., Influence of graphene oxide on mechanical, morphological, barrier, and electrical properties of polymer membranes, <i>Arabian Journal of Chemistry</i> , 9, 2016
153	Jhaveri, J.H., Murthy, Z.V.P., A comprehensive review on anti-fouling nanocomposite membranes for pressure driven membrane separation processes, <i>Desalination</i> , 359, 2016
154	Sharma, S., Kothiyal, N.C., Chitkara, M., Enhanced mechanical performance of cement nanocomposite reinforced with graphene oxide synthesized from mechanically milled graphite and its comparison with carbon nanotubes reinforced nanocomposite, <i>RCS Advances</i> , 6 (106), 2016
155	Song, X., Zhou, Q., Zhang, T., Xu, H., Wang, Z., Pressure-assisted preparation of graphene oxide quantum dot-incorporated reverse osmosis membranes: Antifouling and chlorine resistance potentials, <i>Journal of Materials Chemistry A</i> , 4 (43), 2016
156	Zahri, K., Wong, K.C., Goh, P.S., Ismail, A.F., Graphene oxide/polysulfone hollow fiber mixed matrix membranes for gas separation, <i>RCS Advances</i> , 6(92), 2016

157	Soroush, A., Rice, D., Rahaman, M.S., Perreault, F, Antimicrobial properties of graphene nanomaterials: Mechanisms and applications (2016) Carbon Nanostructures, 0 (9783319456379), pp. 287-322
158	Xu, Z., Zhang, Q., Shi, X., Zhai, W., Yang, K., Tribological Properties of TiAl Matrix Self-Lubricating Composites Containing Multilayer Graphene and Ti <sub>3</sub> SiC <sub>2</sub> at High Temperatures (2015) Tribology Transactions, 58 (6), pp. 1131-1141
159	Lu, X., Qu, J., Huang, J., Mechanical, thermal and rheological properties of hollow glass microsphere filled thermoplastic polyurethane composites blended by normal vane extruder (2015) Plastics, Rubber and Composites, 44 (8), pp. 306-313
160	Zinadini, S., Vatanpour, V., Zinatizadeh, A.A., Rahimi, M., Rahimi, Z., Kian, M, Preparation and characterization of antifouling graphene oxide/polyethersulfone ultrafiltration membrane: Application in MBR for dairy wastewater treatment (2015) Journal of Water Process Engineering, 7, pp. 280-29
161	Baldino, L., Sarno, M., Cardea, S., Irusta, S., Ciambelli, P., Santamaria, J., Reverchon, E, Formation of cellulose acetate-graphene oxide nanocomposites by supercritical CO <sub>2</sub> assisted phase inversion (2015) Industrial and Engineering Chemistry Research, 54 (33), pp. 8147-8156
162	Perreault, F., Fonseca De Faria, A., Elimelech, M., Environmental applications of graphene-based nanomaterials (2015) Chemical Society Reviews, 44 (16), pp. 5861-5896
163	Lee, J., Jang, J.H., Chae, H.-R., Lee, S.H., Lee, C.-H., Park, P.-K., Won, Y.-J., Kim, I.-C., A facile route to enhance the water flux of a thin-film composite reverse osmosis membrane: incorporating thickness-controlled graphene oxide into a highly porous support layer (2015) Journal of Materials Chemistry A, 3 (44), pp. 22053-22060
164	Mokkapati, V.R.S.S., KoseogluImmer, D.Y., Yilmaz, N., Ozguz, V., Koyuncu, I., Protein mediated textile dye filtration using graphene oxide-polysulfone composite membranes (2015) RSC Advances, 5 (87), pp. 71011-71021
165	Song, X., Wang, L., Tang, C.Y., Wang, Z., Gao, C., Fabrication of carbon nanotubes incorporated double-skinned thin film nanocomposite membranes for enhanced separation performance and antifouling capability in forward osmosis process (2015) Desalination, 369, pp. 1-9
166	Suñer, S., Joffe, R., Tipper, J.L., Emami, N., Ultra high molecular weight polyethylene/graphene oxide nanocomposites: Thermal, mechanical and wettability characterization (2015) Composites Part B: Engineering, 78, pp. 185-191
167	Dorri Moghadam, A., Omrani, E., Menezes, P.L., Rohatgi, P.K, Mechanical and tribological properties of self-lubricating metal matrix nanocomposites reinforced by carbon nanotubes (CNTs) and graphene - A review (2015) Composites Part B: Engineering, 77, art. no. 448, pp. 402-420
168	Uddin, M.E., Layek, R.K., Kim, N.H., Hui, D., Lee, J.H., Preparation and properties of reduced graphene oxide/polyacrylonitrile nanocomposites using polyvinyl phenol (2015) Composites Part B: Engineering, 80, pp. 238-245
169	Meng, N., Wang, Z., Low, Z.-X., Zhang, Y., Wang, H., Zhang, X, Impact of trace graphene oxide in coagulation bath on morphology and performance of polysulfone ultrafiltration membrane (2015) Separation and Purification Technology, 147, pp. 364-371
170	Malas, A., Das, C.K., Effect of graphene oxide on the physical, mechanical and thermo-mechanical properties of neoprene and chlorosulfonated polyethylene vulcanizates (2015) Composites Part B: Engineering, 79, pp. 639-648
171	Li, L., Wang, S., Hui, D., Qiu, J., Ordered multiphase polymer nanocomposites for high-performance solid-state supercapacitors (2015) Composites Part B: Engineering, 71, pp. 40-44
172	Amirsardari, Z., MehdiavazAghdam, R., Salavati-Niasari, M., Shakhesi, S., Enhanced thermal resistance of GO/C/phenolic nanocomposite by introducing ZrB <sub>2</sub> nanoparticles (2015) Composites Part B: Engineering, 76, pp. 174-179
173	Gan, L., Shang, S., Yuen, C.W.M., Jiang, S.-X., Luo, N.M, Facile preparation of graphene nanoribbon filled silicone rubber nanocomposite with improved thermal and mechanical properties (2015) Composites Part B: Engineering, 69, pp. 237-242
174	Sharma, S., Kothiyal, N.C., Influence of graphene oxide as dispersed phase in cement mortar matrix in defining the crystal patterns of cement hydrates and its effect on mechanical, microstructural and crystallization properties (2015) RSC Advances, 5 (65), pp. 52642-52657
175	Ionita, M., Crica, L.E., Tiainen, H., Haugen, H.J., Vasile, E., Dinescu, S., Costache, M., Iovu, H., Gelatin-poly(vinyl alcohol) porous biocomposites reinforced with graphene oxide as biomaterials (2015) Journal of Materials Chemistry B, 4 (2), pp. 282-291
176	Gong, L., Yin, B., Li, L.-P., Yang, M.-B, Nylon-6/Graphene composites modified through polymeric modification of graphene (2015) Composites Part B: Engineering, 73, pp. 49-56

177	Pal, A., Kar, S., Debnath, A.K., Aswal, D.K., Bindal, R.C., Tewari, P.K. Reinforcement of nanostructured reduced graphene oxide: A facile approach to develop high-performance nanocomposite ultrafiltration membranes minimizing the trade-off between flux and selectivity (2015) RSC Advances, 5 (58), pp. 46801-46816
178.	Lv G., Liu X., Li Y., Improving study on wear resistance and mechanical properties of graphene / polyurethane microfoam composites, Key Engineering Materials, 2021, 904, KEM, 226-231
179.	Jin W., Graphene-Based Membranes for Nanofiltration, Nanofiltration Principles Applications and New Materials, 2021, 1-2, 1125-1164
180.	Zambare R.S., Nemade P.R., Graphene and its derivatives for environmental applications, Functionalized Nanomaterials Based Devices for Environmental Applications, 2021, 219-259
181.	Zambare R.S., Nemade P.R., Polymer nanocomposite membranes for wastewater treatment, Handbook of Nanomaterials for Wastewater Treatment Fundamentals and Scale Up, 2021, 605-672
182.	Kausar A., Graphene to Polymer/Graphene Nanocomposites: Emerging Research and Opportunities, Graphene to Polymer Graphene Nanocomposites Emerging Research and Opportunities, 2021, 1-276
183.	Kausar A., Conducting Polymer-Based Nanocomposites: Fundamentals and Applications, Conducting Polymer Based Nanocomposites Fundamentals and Applications, 2021, 1-297
I. Aprodu, I. Banu, A. Istrate, E. Vasile, <b>AM. Pandele</b> , E. Vasile, M. Ionita, Molecular dynamics analysis of bone morphogenetic protein-2 conformations and mechanical properties, <b>Digest Journal of Nanomaterials and Biostructures</b> , 8 (2013), 81-87	
1.	Kausar T., Nayeem S.M., Computational analysis on conformational dynamics of bone morphogenetic protein-2 (BMP-2), Journal of Biomolecular Structure and Dynamics, 2017, 35(10), 2224-2234
CM. Damian, <b>AM. Pandele</b> , C. Andronescu, A. Ghebaur, SA Garea, H. Iovu, Epoxy-based nanocomposites reinforced with new amino functionalized multi-walled carbon nanotubes, <b>Fullerenes Nanotubes and Carbon Nanostructures</b> , 19 (2011), 197-209, <a href="https://doi.org/10.1080/15363831003721773">10.1080/15363831003721773</a>	
1.	Qi X., Du S., Sui M., Lv Y., Lv X., Copper oxide combining with multi-walled carbon nanotubes activated peroxyacetic acid for the degradation of sulfamethoxazole, Journal of Water Process Engineering, 2024, 60, 105139
2.	Ghosal A., Vegetable oils-based organic-inorganic hybrid coatings, Vegetable Oil Based Polymers and their Surface Applications, 2024, 297-318
3.	Wei P., Li Z., Zhang Y., Wang Y., Wang Y., Structure and properties of aromatic naphthalene thermotropic liquid crystal copolyester/MWCNT composites, International Journal of Polymer Analysis and Characterization, 2023, 28(4), 293-306
4.	Liu P.Y., Ren Y.H., Ma H.X., Qin F.F., Yin Y.Q., Preparation and Catalytic Effect of Pitch Based Carbon Nanomaterials on the Pyrolysis of HMX and RDX, Huozhayao Xuebao/Chinese Journal of Explosives and Propellants, 2023, 46(8), 724-732
5.	Paul S., Mondal S., Saha A., Roy S., Fundamentals and functionalization of CNTs and other carbon nanomaterials, Functionalized Carbon Nanomaterials for Theranostic Applications, 2022, 77-90
6.	Salah L.S., Ouslimani N., Bousba D., Danlee Y., Aksas H., Carbon Nanotubes (CNTs) from Synthesis to Functionalized (CNTs) Using Conventional and New Chemical Approaches, Journal of nanomaterials, 2021, 4972770
7.	Liu, H., Tang, Y., Jin, Z., Song, S., Zhang, P., Zhao, S., Guan, S., Guan, W., Surface functionalization of carbon nanotubes by biological adhesive polymers carbopol for developing high-permittivity polymer composites, 2020, Journal of Vinyl and Additive Technology, 26 (2), pp. 165-172
8.	Viswasam, B.M., Dhas, A.A.G., Diminution of weight and heat accumulation in transfemoral socket using PE/MWCNT composite, 2020, Advances in Polymer Technology, 2020, art. no. 2159898, pp. 1-12
9.	Alin, C.D., Grama, F., Papagheorghe, R., Brajnicov, S., Ion, V., Vizireanu, S., Palla-Papavlu, A., Dinescu, M., Tuning the physicochemical properties of hernia repair meshes by matrix-assisted pulsed laser evaporation, (2019) <i>Applied Physics A: Materials Science and Processing</i> , 125 (6), art. no. 424
10.	Pelin, G., Pelin, C.-E., Andronescu, E., Ficai, D., Ștefan, A., Trușcă, R., Mechanical, thermo-mechanical and tribological properties of silicon carbide nanoparticles filled epoxy composites (2017) UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 79 (1), pp. 51-60
11.	Balanuca, B., Stan, R., Lungu, A., Vasile, E., Iovu, H., Hybrid networks based on epoxidized camelina oil (2017) <i>Designed Monomers and Polymers</i> , 20 (1), pp. 10-17
12.	Basiuk, V.A., Henao-Holguín, L.V., Meza-Laguna, V., Basiuk, E.V., Solvent-free derivatization of oxidized single-walled carbon nanotubes and nanodiamond with aminobenzo-crown ethers, <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 24(1), 2016

13.	Rawat, N.K., Pathan, S., Sinha, A.K., Ahmad, S., Conducting poly(o-anisidine) nanofibre dispersed epoxy-siloxane composite coatings: Synthesis, characterization and corrosion protective performance, <i>New Journal of Chemistry</i> , 40(1), 2016
14.	Tarlani, A., Narimani, K., Mohammadipanah, F., Hamed, J., Tahermansouri, H., Amini, M.M., Immobilized copper(II) macrocyclic complex on MWCNTs with antibacterial activity (2015) <i>Applied Surface Science</i> , 341, pp. 86-91
15.	Ardjmand, M., Omidi, M., Choolaei, M, The effects of functionalized multi-walled carbon nanotube on mechanical properties of multi-walled carbon nanotube/epoxy composites (2015) <i>Oriental Journal of Chemistry</i> , 31 (4), pp. 2291-2301
16.	Li, D., Liu, Y., Wang, Y., Kang, H., Wang, L., Tan, H, Influences of different gravity environments on the curing process and cured products of carbon-nanotube-reinforced epoxy composites (2015) <i>Journal of Applied Polymer Science</i> , 132 (6), art. no. 41413
17.	Makki, M.S.I., Abdelaal, M.Y., Bellucci, S., Abdel Salam, M, Multi-walled carbon nanotubes/unsaturated polyester composites: Mechanical and thermal properties study (2014) <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 22 (9), pp. 820-83
18.	Liu, W., Yang, Y., Luan, C., Liu, X., Xu, B, Thermal stability and surface chemistry evolution of oxidized carbon microspheres (2014) <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 22 (7), pp. 670-678
19.	Esposito, L.H., Ramos, J.A., Kortaberria, G, Dispersion of carbon nanotubes in nanostructured epoxy systems for coating application (2014) <i>Progress in Organic Coatings</i> , 77 (9), pp. 1452-1458
20.	Alvarado, C.J.C., Galindo, A.S., Berumen, C.P., López, L.L., Orta, C.Á., Garza, J.V., Donías, L.D.M., Modification surface of MWCNTS assisted by ultrasonic with acetic acid and citric acid [Modificadó superficial de Multiwall Carbon Nanotubes (MWCNT) assistida per ultrasonsambàcidacèticiciàcidcitríc] (2014) <i>Afinidad</i> , 71 (566), pp. 139-145
21.	Damian, C.M., Ciobotaru, C.C., Gârea, S.A., Iovu, H., Effect of POSS-NH <sub>2</sub> functionalization of MWNTs on reinforcing properties in epoxy nanocomposites (2013) <i>High Performance Polymers</i> , 25 (5), pp. 566-575
22.	Frone, A.N., Perrin, F.X., Radovici, C., Panaitescu, D.M, nfluence of branched or un-branched alkyl substitutes of POSS on morphology, thermal and mechanical properties of polyethylene (2013) <i>Composites Part B: Engineering</i> , 50, pp. 98-106
23.	Li, M., Gu, Y., Liu, Y., Li, Y., Zhang, Z, Interfacial improvement of carbon fiber/epoxy composites using a simple process for depositing commercially functionalized carbon nanotubes on the fibers (2013) <i>Carbon</i> , 52, pp. 109-121
24.	Heidari, A., Beheshty, M.H., Rahimi, H, Functionalization of multi-walled carbon nanotubes via direct friedel-crafts acylation in an optimized PPA/P <sub>2</sub> O <sub>5</sub> medium (2013) <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 21 (6), pp. 516-524
25.	Damian, C.M., Garea, S.A., Vasile, E., Iovu, H., Covalent and non-covalent functionalized MWCNTs for improved thermo-mechanical properties of epoxy composites (2012) <i>Composites Part B: Engineering</i> , 43 (8), pp. 3507-3515
26.	Garea, S.A., Iovu, H, Following the Nanocomposites Synthesis by Raman Spectroscopy and X-Ray Photoelectron Spectroscopy (XPS) (2012) <i>Characterization Techniques for Polymer Nanocomposites</i> , pp. 115-142
27.	Bao, C., Guo, Y., Song, L., Kan, Y., Qian, X., Hu, Y., In situ preparation of functionalized graphene oxide/epoxy nanocomposites with effective reinforcements (2011) <i>Journal of Materials Chemistry</i> , 21 (35), pp. 13290-13298
<b>C.M. Petrea, C. Andronescu, AM Pandeale, SA Garea, H Iovu, Epoxy-based nanocomposites with amine modified single walled carbon nanotubes, e-Polymers, 020, 2010</b>	
1.	Alvarado C.J.C., Galindo A.S., Berumen C.P., Garza J.V., Donias L.D.M., Modification surface of MWCNTS assisted by ultrasonic with acetic acid and citric acid   Modificadó superficial de Multiwall Carbon Nanotubes (MWCNT) assistida per ultrasons amb àcid acètic i àcid citric, <i>Afinidad</i> , 2014, 71(566), 139-145
2.	Garea S.A., Iovu H., Following the Nanocomposites Synthesis by Raman Spectroscopy and X-Ray Photoelectron Spectroscopy (XPS), <i>Characterization techniques for Polymer Nanocomposites</i> , 2012, 115-142
<b>C.M. Petrea, C. Andronescu, A.M. Pandeale, SA Garea, H. Iovu, Advanced characterization of modified carbon nanotubes epoxy-based composites, Materiale Plastice, 45 (2008), 320-325</b>	
1.	Damian, C.M., Necolau, M.I., Neblea, I., Vasile, E., Iovu, H., Synergistic effect of graphene oxide functionalized with SiO <sub>2</sub> nanostructures in the epoxy nanocomposites (2020) <i>Applied Surface Science</i> , 507, art. no. 145046
2.	Damian, C.M., Garea, S.A., Vasile, E., Iovu, H., Covalent and non-covalent functionalized MWCNTs for improved thermo-mechanical properties of epoxy composites(2012) <i>Composites Part B: Engineering</i> , 43 (8), pp. 3507-3515
3.	Stan, R., Ott, C., Sulca, N., Lungu, A., Iovu, H., Functionalized D-sorbitol-based organogelators for dental materials (I)(2009) <i>MaterialePlastice</i> , 46 (3), pp. 230-235

4.	Sulca, N.M., Lungu, A., Voicu, G., Garea, S.A., Iovu, H, Advanced characterization of polyhedral oligomeric silsesquioxanes used for nanocomposites synthesis (2009) <i>MaterialePlastice</i> , 46 (2), pp. 124-128
<b>M. Ionita, H. Iovu, A.M. Pandele, Sodium alginate/graphene oxide composite films with enhanced thermal and mechanical properties, <i>Carbohydrate Polymers</i>, 94(2013), 339-344, 10.1016/j.carbpol.2013.01.065</b>	
1.	Zeng L., Chen X., Zhou S., Zhou C., Liu M., FeS <sub>2</sub> nanozymes@halloysite clay nanotube/polyvinyl alcohol/sodium alginate composite hydrogel for hemostasis and bacterial-infected wound healing, <i>Journal of Colloid and Interface Science</i> , 2026, 703, 139120
2.	Rasoulzadehzali M., Namazi H., Larsen K.L., Kazeminava F., Engineering pH-sensitive CA/GO nanocomposite beads for dual-drug oral delivery: Improved therapeutic efficacy against breast cancer cells, <i>Colloids and Surface A., Physicochemical and Engineering Aspects</i> , 2025, 726, 138081
3.	Farzaneh A., Babazadeh M., Ehsani A., Ganjidoust H., Hadi M., Batch experimental studies on Acid Blue 25 dye removal by synthesized chitosan containing sodium alginate and halloysite nanotubes, <i>Scientific Reports</i> , 2025, 15(1), 32718
4.	Rafati N., Naderi-Manesh H., A new efficient skin dressing based on sodium alginate – graphene oxide bionanocomposite hydrogel to expedite wound healing process, <i>International Journal of Pharmaceutics</i> , 2025, 685, 126209
5.	Fatima M., Kanwal N., Elsayed N.M.I., Rana T., Aziz M.H., Graphene oxide incorporated sodium alginate-gelatin composite hydrogel loaded with Moringa oleifera leaf extract for bifunctional tissue regeneration and anticancer applications, <i>Reactive and Functional Polymers</i> , 2025, 216, 106406
	Azizi-Lalabadi, M., Jafari, S.M., Bio-nanocomposites of graphene with biopolymers; fabrication, properties, and applications (2021) <i>Advances in Colloid and Interface Science</i> , 292, art. No. 102416
6.	Li R., Zhang J., Zhao X., Sun X., Zheng C., Ultra-stable and dendrite-free Zn anodes via a self-regulating sodium alginate-zinc phosphate hybrid interface for aqueous zinc-ion batteries, <i>Electrochemical Acta</i> , 2025, 539, 147130
7.	Priya V.N., Karthigaimuthu D., Florence S.S., Vijayalaksmi V., Ahila P., Enhanced dual removal of chromium and lead ions from water using biopolymer modified ferric-alumina layered double hydroxides, <i>Journal of Environmental Chemical Engineering</i> , 2025, 13(5), 118697
8.	Zulkifi M.Z.A., Shaari N., Kamarudin S.K., Nainar M.A.M., Beygisangchin M., Critical review of metal-organic framework (MOF) in direct methanol fuel cells: Membrane and electrocatalyst performance enhancement, <i>Inorganic Chemistry Communications</i> , 2025, 180, 114850
9.	Zhang D, Bai Z., Jiang J., Zhang H., Yu Y., Biomimetic Design of Capillary-Driven Photothermal Fabric for Efficient Interface Evaporation, <i>Small</i> , 2025, 21(35), 2504092
10.	Yang L., Li C., Liu Y., Zhang A, Wu X., Mechanism of double-crosslinked nano zero-valent iron/nickel/carbon immobilised pellet coupled with bio-system enhanced nitrogen removal from phenol-containing wastewater, <i>Journal of Water Process Engineering</i> , 2025, 77, 108627
11.	Duan J., Liu S., Xu X., Ren X., Wang B., Alginate aerogel with high adsorption performance for copper ions, <i>Colloids and Surfaces A., Physicochemical and Engineering Aspects</i> , 2025, 719, 137054
12.	Ren S.Y., Peng Z.X., Feng J.R., Zeng X.M., Ni H.G., Efficient removal of dissolved tri-n-butyl phosphate from aqueous solution by immobilized bacterial microspheres, <i>Journal of Environmental Management</i> , 2025, 389, 126265
13.	Hussain S, Maktedar S.S., Engineered bio-derived sodium alginate@GO-Ag hydrogel: Insights into mechanical integrity, antimicrobial potential and biocompatibility assay, <i>International Journal of Biological Macromolecules</i> , 2025, 320, 145879
14.	Kudzin M.H., Kaczmarek A., Mrozinska Z., Juszcak M., Krol P., Hybrid Alginate–Graphene Composites: Biochemical Features and Biomedical Potential, <i>Marine Drugs</i> , 2025, 23(8), 323
15.	Kaur N., Arya A., Kaur J., Savita, Sharma A., Tuning of Optical Properties of Starch-Sodium Alginate Blend Embedded with Au-Ag NPs, <i>Integrated Ferroelectrics</i> , 2025, 241(4-6), 508-514
16.	Binaymotlagh R., Chronopoulou L., Palocci C., An Overview of Biopolymer-Based Graphene Nanocomposites for Biotechnological Applications, <i>Materials</i> , 2025, 18(13), 2978
17.	Xia T., Zhou X., Zhou H., Xiong L., Ding F., 3D-printed polymeric biomaterials in bone tissue engineering, <i>Biomedical Materials Bristol</i> , 2025, 20(4), 042003
18.	Fei Z., Zhang S., Zhang B., Optimization of the surface performance of environmentally friendly three-phase SiO <sub>2</sub> gel foam as an extinguishing agent, <i>Journal of Molecular Liquids</i> , 2025, 426, 127256

19.	Chen X., Liu J., Bu Y., Yan H., Lin Q., Dodecyl glycoside intercalated organo-montmorillonite promoted biomimetic alginate/microcrystalline cellulose/nano-hydroxyapatite composite hydrogels for bone tissue engineering, <i>International journal of Biological Macromolecules</i> , 2025, 310, 143304
20.	Tahmasebi S., Farmanbordar H., Mohammadi R., Synthesis of magnetic bio-nanocomposite hydrogel beads based on sodium alginate and $\beta$ -cyclodextrin: Potential pH-responsive oral delivery anticancer systems for colorectal cancer, <i>Internatioal Journal of Biological Macromolecules</i> , 2025, 305, 140748
21.	Zhang F., Zou K., Lyu B., Xu D., Application of high loaded docosahexaenoic acid emulsion-based microparticles stabilization technology to docosahexaenoic acid-fortified milk, <i>Food and Fermentation Industries</i> , 2025, 51(8), 68-76
22.	Bayrak O., Tashkinov M., Silberschmidt V.V., Demirci E., Quantitative analysis of orientation distribution of graphene platelets in nanocomposites using TEM, <i>Composites Science and technology</i> , 2025, 262, 111084
23.	Yusoff Y.N., Shaari N., A short review of biopolymer as an alternative membrane in direct methanol fuel cell (DMFC) application, <i>Aip Conference Proceeding</i> , 2025, 3113(1), 020028
24.	Abioye S.O., Sava S.P., Badar M.S., Saker J., Yousefi N., Nanocomposite beads with engineered pore architecture for improved removal of emerging contaminants from water, <i>Chemical Engineering Journal</i> , 2025, 507, 160779
25.	Phu N.A.M.M., Wi E., Jeong G., Singha N.R., Chang M., Highly efficient dye adsorption by hierarchical porous SA/PVA/ZIF-8 composite microgels prepared via microfluidics, <i>Carbohydrate Polymers</i> , 2025, 350, 123016
26.	Guo J., Khan M.R., Ahmad N., Zhang W., Enhancing fruit preservation with sodium alginate films incorporating propolis extract and graphene oxide, <i>International Journal of Biological Macromolecules</i> , 2025, 288, 138778
27.	Shen K., He Y., Preparation and Application of Multifunctional Chitosan–Polyvinyl Alcohol–Nanosilver–Chrysanthemum Extract Composite Gel, <i>Processes</i> , 2025, 13(2), 517
28.	Lee M.H., Han A., Chang Y.H., Effect of inulin on structural, physicochemical, and in vitro gastrointestinal tract release properties of core-shell hydrogel beads as a delivery system for vitamin B12, <i>Food Chemistry</i> , 2025, 463, 141351
29.	Movahedi M., Sanei A., Hashemi-Najafabadi S., Bagheri F., Pouri H., Effect of microcapsules' mechanical stability on the encapsulated cells' behavior, <i>International journal of Polymeric Materials and Polymeric Biomaterials</i> , 2025, 74(9), 773-789
30.	Abdulirees Jebur M., Sadra Kashef S., Amirani M., Mezher M.H., Design and Fabrication an optical sensor devices base on graphene oxide   Diseño y fabricación de dispositivos sensores ópticos basados en óxido de grafeno, <i>Data and metadata</i> , 2025, 4, 875
31.	Yao M., Li J., Li S., Yin J., Wu T., Construction of a charge-reversal polyelectrolyte nanocarrier for targeted intestinal releasing of kidney tea saponin based on sodium alginate/ $\epsilon$ -polylysine/alliin, <i>International Journal of Biological Macromolecules</i> , 2025, 287, 138424
32.	Kim H.j., Bae J.H., Eom Y., Creating ultra-strong and recyclable green plastics from marine-sourced alginate-chitosan nanowhisiker nanocomposites for controlled release urea fertilizer, <i>Carbohydrate polymers</i> , 2025, 347, 122745
33.	Tavares F.C., Luzardo J.M., Dias A.A., Araujo J.R., Jakomin R., Strong and Flexible Platinum-Free Counter Electrode for DSSC Applications, <i>Journal of Applied Polymer Science</i> , 2025, doi.org/10.1002/app.58064
34.	Rostami E., Hani M.B.A.F., Kiasat A., Larki A., Magnetite–Chitosan–Alginate Nanocomposite (CS/Al@Fe3O4) for Removal of Methylene Blue (MB) From Aquatic Environments: Preparation, Characterization, and Isotherms, <i>International Journal of Chemical Engineering</i> , 2025, 2025(1), 5580331
35.	Aksakal B., Kaplan Z., Turhan K., The influence of plasticizer on the mechanical, structural, thermal and strain recovery properties following stress-relaxation process of silk fibroin/sodium alginate biocomposites for biomedical applications, <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2025, 161, 106797
36.	Abioye S.O., Nguyen A., Costantino J., Yousefi N., Tuning the wettability of alginate-based nanocomposite beads for efficient removal of pharmaceuticals from water, <i>Separation and Purification technology</i> , 2025, 352, 127910
37.	Abdelhaq F.E.Z.M., Hasanin M.S., Abdel-Monem M.O., Dawwam G.E., Bacrory S., Formulation of synergetic sodium alginate-based hydrogel in situ doped ZnO and loaded with neomycin: characterizations, control release, and antimicrobial activity, <i>Inorganic Chemistry Communications</i> , 2024, 170, 113161
38.	Yang J., Goksen G., Khan M.R., Ahmad N., Zhang W., Green-synthesized silver nanoparticles immobilized on graphene oxide for fruit preservation in alginate films, <i>Food Bioscience</i> , 2024, 62, 105127
39.	Taghiloo B., Shahnazi A., Nabid M.R., Construction of nanocomposite hydrogel by TiO <sub>2</sub> -carbon quantum dots encapsulated in alginate with a highly efficient adsorption and photodegradation of dye pollutants, <i>Journal of alloys and Compounds</i> , 2024, 1005, 17859

40.	Yuan F., Gao Q., Lv Z., Peng J., Liz, 2D Membranes Interlayered with Bimetallic Metal-Organic Frameworks for Lithium Separation from Brines, <i>Nano Letters</i> , 2024, 24(45), 14346-14354
41.	Liu Y., Wan H., Niu J., Wu Z., Zhao Y., 3D printing for constructing biocarriers using sodium alginate/ $\epsilon$ -poly-L-lysine ink: Enhancing microbial enrichment for efficient nitrogen removal in wastewater, <i>Science of the Total Environment</i> , 2024, 950, 175296
42.	Abdul Razak M.A.I., Mohd Kasim N.A., Knight V.F., Yasin F.M., Wan Yunus, W.M.Z., Advancements in Adsorption Efficiency: Cationic Modified Nanocellulose with Glycidyltrimethylammonium Chloride (GTMAC) for Malathion Removal in Water, <i>Advanced Journal of Chemistry Section A</i> , <i>Advanced Journal of Chemistry Section A.</i> , 2024, 7(6), 777-796
43.	Kheiriabad S., Jafari A., Namvar Aghdash S., Andishmand H., Jafari S.M., Applications of Advanced Nanomaterials in Biomedicine, Pharmaceuticals, Agriculture, and Food Industry, <i>Bionanoscience</i> , 2024, 4298-4321
44.	Cojocaru E., Oprea M., Vlasceanu G.M., Toader A.G., Ionita M., Dual nanofiber and graphene reinforcement of 3D printed biomimetic supports for bone tissue repair, <i>RSC Advances</i> , 2024, 14(44), 32517-32532
45.	Ge L., Zhang H., Wang Z., Liu W., Yao J., Zn-doped manganese tetroxide/graphene oxide cathode materials for high-performance aqueous zinc-ion battery, <i>Journal of Sol Gel Science and Technology</i> , 2024, 112(1), 15-24
46.	Assis M., Cano-Vicent A., Tunon-Molina A., Andres J., Serrano-Aroca A., Calcium alginate films loaded with copper-molybdenum oxide nanoparticles for antimicrobial applications, <i>Journal of Environmental Chemical Engineering</i> , 2024, 12(5), 113935
47.	Chang Y., Zhao W., Li W., Zhang Q., Wang G., Bioadhesive and drug-loaded cellulose nanofiber/alginate film for healing oral mucosal wounds, <i>International Journal of Biological Macromolecules</i> , 2024, 276, 133858
48.	Wardak M.H., Nkede F.N., Van T.T., Tanaka F., Tanaka F., Development of a coating material composed of sodium alginate and kiwifruit seed essential oil to enhance persimmon fruit quality using a novel partial coating technique, <i>Food packaging and Shelf Life</i> , 2024, 45, 101331
49.	Bu Y., Chen X., Wu T., Yan H., Lin Q., Synthesis, Optimization and Molecular Self-Assembly Behavior of Alginate-g-Oleylamine Derivatives Based on Ugi Reaction for Hydrophobic Drug Delivery, <i>International Journal of Molecular Sciences</i> , 2024, 25(15), 8551
50.	Lach A., Skoczen M., Ordon K., Zuba-Surma E., Pielihowaska K., On the influence of graphene oxide and hydroxyapatite modification on alginate-based hydrogel matrix: thermal, physicochemical, and biological considerations, <i>Journal of Thermal Analysis and Calorimetry</i> , 2024, 149(12), 6021-6037
51.	Ning H., Lu L., Zhang Y., Isoreticular metal-organic framework-3 post-synthetic modification: Application in a new active film based on sodium alginate and carvacrol for pork preservation, <i>Food Bioscience</i> , 2024, 59, 103926
52.	Xie F., Gao C., Averous L., Alginate-based materials: Enhancing properties through multiphase formulation design and processing innovation, <i>materials Science and Engineering R reports</i> , 2024, 159, 100799
53.	Zhang Q., li J., Qu Q., Yu K., Liu Y., Graphene oxide modified sodium alginate/polyethylene glycol phase change material hydrogel scaffold composite with photothermal temperature control for potential bone tissue regeneration, <i>Journal of Materials research and Technology</i> , 2024, 30, 2446-2457
54.	Lin S., Li M., Wang G., Bae J., Wu Y., Zn Anode Surviving Extremely Corrosive Polybromide Environment with Alginate-Graphene Oxide Hydrogel Coating, <i>Small</i> , 2024, 20(15), 2311510
55.	Yu J., Ran F., Li C., Wang J., Yang W., A Lignin Silver Nanoparticles/Polyvinyl Alcohol/Sodium Alginate Hybrid Hydrogel with Potent Mechanical Properties and Antibacterial Activity, <i>gels</i> , 2024, 10(4), 240
56.	Wulandari C., Septiani N.L.W., Gumilar G., Wasisto H.S., Yuliarto B., Two-Dimensional Materials Integrated in Electrochemical Biosensors for Virus Detection: Property Engineering Strategies and Device Applications, <i>Chembioeng reviews</i> , 2024, 11(2), 278-298
57.	Wu T., Liu H., wang h., Yan H., Lin Q., Fabrication of alginate/sericin/cellulose nanocrystals interpenetrating network composite hydrogels with enhanced physicochemical properties and biological activity, <i>journal of Applied polymer Science</i> , 2024, 141(10), e55052
58.	Zhang Y., Guo J., Su J., Song X., Li Z., Bilayer fiber membrane electrospun from polylactic acid/alginate/bromelain and polylactic acid for enhancing the functionality of tea bags, <i>International Journal of Biological Macromolecules</i> , 2024, 260, 129449
59.	Li H., Zhu X., Zhao j., Ling G., Zhang P., Emerging adsorbents: Applications of sodium alginate/graphene oxide composite materials in wastewater treatment, <i>Journal of Water Processs Engineering</i> , 2024, 59, 105100
60.	Priya S., Choudhari M., Tomar y., Dubey S.K., Singhvi G., Exploring polysaccharide-based bio-adhesive topical film as a potential platform for wound dressing application: A review, <i>Carbohydrate Polymers</i> , 2024, 327, 121655

61.	Qin X., lei S., Yang K., Xie W., Wang J., Green synthetic sodium alginate-glycerol-MXene nanocomposite membrane with excellent flexibility and mineralization ability for guided bone regeneration, <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2024, 150, 106336
62.	Liu Z, Wang H., Bu Y., Yan H., Lin Q., Fabrication of self-assembled micelles based on amphiphilic oxidized sodium alginate grafted oleoamine derivatives via Schiff base reduction amination reaction for delivery of hydrophobic food active ingredients, <i>International journal of Biological Macromolecules</i> , 2024, 257, 128653
63.	Chen L., Zhou X., Meng R., Xia Y., Ci L., Stable Antifouling Membranes Based on Graphene Oxide Nanosheets for Organic Solvent Nanofiltration, <i>ACS Applied Nano Materials</i> , 2024, 7(2), 1929-1939
64.	Thabet O.A., Alenzi F.K., Ashubramy M.A., Hussein M.A., Hoogenboom R., New sorbent-based hydrophobic alginic acid derivatives for fat removal in multi-pesticide residues: analysis of a fatty food sample, <i>RSC Advances</i> , 2024, 14(4), 2491-2503
65.	Elo T., Parihar V.S., Bera A., Kellomaki M., Layek R., Mechanically robust, transparent, and UV-shielding composite of Na-Alginate and maleic acid-functionalized boron nitride nanosheets with improved antioxidant property, <i>Colloids and Surfaces B Bionterfaces</i> , 2024, 233, 113641
66.	Rashidzadeh B., Fathalipour S., Hosseini S.P., Bazazi S., Alginate doped graphene oxide-TiO <sub>2</sub> -Fe <sub>3</sub> O <sub>4</sub> nanocomposite: preparation, characterization, and application of sonophotocatalyst for efficient decomposition of an organic dye, <i>Interational Journal of Environmetal Analytical Chemistry</i> , 2024, 104(8), 1911-14927
67.	Goshtasbi H., Abdolahinia E.D., Fathi M., Barar J., Omidi Y., Astaxanthin-loaded alginate-chitosan gel beads activate Nrf2 and pro-apoptotic signalling pathways against oxidative stress, <i>Journal of Microencapsulation</i> , 2024, 41(2), 140-156
68.	Rehman S., Madni A., Jamil Q.A., Shukat H., Nadeem A., Preparation and in vitro characterization of graphene oxide impregnated superporous hydrogel beads: an effective approach of gastro-retentive drug delivery system, <i>Polymer Plastics Technology and Materials</i> , 2024, 63(17), 2304-2326
69.	Shahmoradi S., Mirshafiei M., Zare I., Yazdian F., Mostafavi E., Two-Dimensional Nanomaterials-Based Polymer Nanocomposites for Tissue Engineering Applications, <i>Two Dimensional Nanomaterials Based Polymer Nanocomposites Processing Properties and Applications</i> , 2024, 609-648
70.	Boobphahom S., Rodthongkum N., Graphene oxide-alginate hydrogel-based indicator displacement assay integrated with diaper for non-invasive Alzheimer's disease screening, <i>International Journal of Biological Macromolecules</i> , 2023, 253, 126316
71.	Pei J, Chen G., Li Z., Xie S., Jiang X., Electricity Generation with Sodium Alginate Hydrogel for Osmotic Energy Harvesting, <i>Industrial and Engineering Chemistry Research</i> , 2023, 62(50), 21666-21672
72.	Li Z., Liu H., Liao Y., Yan H., Lin Q., Design and properties of alginate/gelatin/cellulose nanocrystals interpenetrating polymer network composite hydrogels based on in situ cross-linking, <i>European Polymer Journal</i> , 2023, 201, 112556
73.	Phu N.A.M.M., Jeong G., Wi E., Woo Yun J., Chang M., Fabrication and characterization of magneto-responsive polyvinyl alcohol-alginate composite hydrogel beads for the removal of cationic dyes from aqueous solutions, <i>Functional Composites and Structures</i> , 2023, 5(4), 045004
74.	Bu Y., Kim H.K., Lee J.S., Sharma M., Kim B.S., Improvement of biodegradable polymer film properties by incorporating functionalized few-layer graphene, <i>Food Packaging and Shelf Life</i> , 2023, 40, 101205
75.	Hussain S., Maktedar S.S., Structural, functional and mechanical performance of advanced Graphene-based composite hydrogels, <i>Results in Chemistry</i> , 2023, 6, 101029
76.	Liu H., Zhang X., Lv Z., Chen X., Wu W., Ternary Heterostructure Membranes with Two-Dimensional Tunable Channels for Highly Selective Ion Separation, <i>Jacs Au</i> , 2023, 3(11), 3089-3100
77.	Li D., Liao Y., Chen X., Yan H., Lin Q., Preparation and properties of homogeneous oxidized sodium alginate/silica/polyacrylamide-gelatin composite hydrogel based on interpenetrating network technology, <i>Polymer Bulletin</i> , 2023, 80(11), 11899-11917
78.	Naseem K., Thir M.H., Farooqi F., Manzoor S., Khan S.U., Strategies adopted for the preparation of sodium alginate-based nanocomposites and their role as catalytic, antibacterial, and antifungal agents, <i>Review in Chemical Engineering</i> , 2023, 39(8), 1359-1391
79.	Kumar h., Singh A.K., Kumar M., Nishat A., Saltnat L., Synthesis of Biodegradable Film Made from Sodium Alginate Embedded with Magnesium Nanoparticles for Food Packaging Applications, <i>Theoretical foundations of Chemical Engineering</i> , 2023, 57(5), 977-984
80.	Hu W., Chen W.C., Wang Y., Wen S., Feasibility study of applying a graphene oxide-alginate composite hydrogel to electrokinetic remediation of Cu(II)-contaminated loess as electrodes, <i>separation and Purification Technology</i> , 2023, 322, 124361

81.	Hu W., Cheng W.C., Wang Y., Wen S., Xue Z.F., Applying a nanocomposite hydrogel electrode to mitigate electrochemical polarization and focusing effect in electrokinetic remediation of a Cu- and Pb-contaminated loess, <i>Environmental Pollution</i> , 2023, 333, 122039
82.	Wang H., Yin R., Chen X., Yan H., Lin Q., Construction and Evaluation of Alginate Dialdehyde Grafted RGD Derivatives/Polyvinyl Alcohol/Cellulose Nanocrystals IPN Composite Hydrogels, <i>Molecules</i> , 2023, 28(18), 6692
83.	Salimiyan N., Gholami M., Sedghi R., Preparation of degradable, biocompatible, conductive and multifunctional chitosan/thiol-functionalized graphene nanocomposite hydrogel via click chemistry for human motion sensing, <i>Chemical Engineering Journal</i> , 2023, 471, 144648
84.	Villanueva V., Valdes F., Zuniga R.N., Oyarzun-Ampuero F., Valenzuela C., Development of biodegradable and vermicompostable films based on alginate and waste eggshells, <i>Food Hydrocolloids</i> , 2023, 142, 108813
85.	Wang Q., Liu Y., Guo Y., Xu H., Mao Z., Super-Deformed Asymmetric Actuators: Balance of Photothermal and Humidity Response Effects through Structural Regulation, <i>ACS Applied Polymer Materials</i> , 2023, 5(8), 6151-6160
86.	Farajpour R., Emam Djomeh Z., Ehsani M., Tavakolipour H., Safaeian S., Physicochemical and Morphological Evaluation of Potato Starch-Olive Oil Bio-Composite Films Incorporated with Graphene Oxide, <i>Iranian Journal of Chemistry and Chemical Engineering</i> , 2023, 42(8), 2651-2628
87.	Xie L., Zhang Z., He Y., Antibacterial Effect of Polyvinyl Alcohol/Biochar–Nano Silver/Sodium Alginate Gel Beads, <i>Processes</i> , 2023, 11(8), 2330
88.	Chen X., Sun L., Wang H., Yan H., Lin Q., Nano-SiO <sub>2</sub> reinforced alginate-chitosan-gelatin nanocomposite hydrogels with improved physicochemical properties and biological activity, <i>Colloids and Surfaces B Interfaces</i> , 2023, 228, 113413
89.	Chen X., Wang H., Sun X., Yan H., Lin Q., Chemical characterization and biological properties of titania/hydroxyapatite-promoted biomimetic alginate-chitosan-gelatin composite hydrogels, <i>Ceramic International</i> , 2023, 49(15), 25744-25756
90.	Liu G., Liu Z., Li S., Huo M., Lin Y., Aluminum copper bimetallic metal organic gels/sodium alginate beads for efficient adsorption of ciprofloxacin and methylene blue: Adsorption isotherm, kinetic and mechanism studies, <i>Process Safety and Environmental Protection</i> , 2023, 176, 763-775
91.	Hasan M.M., Hossain M.S., Islam M.D., Ratna A.S., Mukhopadhyay S., Nontoxic Cross-Linked Graphitic Carbon Nitride-Alginate-Based Biodegradable Transparent Films for UV and High-Energy Blue Light Shielding, <i>ACS Applied Materials and Interfaces</i> , 2023, 15(26), 32011-32023
92.	Kuar N., Arya A., Kumar R., Diwan P.K., Sharma A., Au-Ag NPs embedded Sago Starch-Sodium Alginate composites: An investigation of structural, thermal and dielectric properties for applications in flexible electronic devices, <i>Materials Science and Engineering B</i> , 2023, 293, 116495
93.	Moreno-Castellanos N., Velasquez-Rincon M.C., Rodriguez-Sanabria A.V., Cuartas-Gomez E., Vargas-Ceballos O., Encapsulation of beta-pancreatic cells in a hydrogel based on alginate and graphene oxide with high potential application in the diabetes treatment, <i>Journal of Materials Research</i> , 2023, 38(10), 2823-2837
94.	Bakil S.S.N.a., Idris m.i., Zakhi W.A.M.A., Chuan L.T., Abdullah H.Z., Sodium Alginate Membrane/Film as Wound Dressing Applications: A Review, <i>Aip Conference proceedings</i> , 2023, 2530, 110014
95.	Roy A.S., de Beer M., Pillai S.K., Ray S.S., Application of Layered Double Hydroxides as a Slow-Release Phosphate Source: A Comparison of Hydroponic and Soil Systems, <i>ACS Omega</i> , 2023, 8(17), 15017-15030
96.	Wang H., Sun X., Shang T., Yan H., Lin Q., Design, characterization and evaluation of homogeneous oxidized sodium alginate/polyacrylamide–gelatin composite hydrogels constructed via interpenetrating network technology, <i>Polymer International</i> , 2023, 72(5), 471-481
97.	Jia f., Yang L., Li Z., Huang L., Tang J., Graphene oxide/sodium alginate nanofiltration membrane with double cross-linked structure for high-performance in dye separation, <i>Journal of Materials Science</i> , 2023, 58(15), 6618-6631
98.	Golkar N., Sarikhani Z., Aghaei R., Amini A., Gholami A., An oral nanoformulation of insulin: Development and characterization of human insulin loaded graphene oxide-sodium alginate-gold nanocomposite in an animal model, <i>Journal of Drug Delivery Science and Technology</i> , 2023, 82, 104309
99.	Froelich A., Jakubowsska E., Wojtylko M., Ravlil Y., Osmalek T., Alginate-Based Materials Loaded with Nanoparticles in Wound Healing, <i>Pharmaceutics</i> , 2023, 15(4), 1142
100.	Singha Roy A., Kesavan Pillai S., Ray S.S., A Comparison of Nitrate Release from Zn/Al-, Mg/Al-, and Mg-Zn/Al Layered Double Hydroxides and Composite Beads: Utilization as Slow-Release Fertilizers, <i>ACS Omega</i> , 2023, 8(9), 8427-8440
101.	Aljarid a.A.K., Doty K.L., Wei C., Salvage J.p., Voland C.S., Food-Inspired, High-Sensitivity Piezoresistive Graphene Hydrogels, <i>ACS Sustainable Chemistry and Engineering</i> , 2023, 11(5), 1820-1827

102.	Xiang X., Yi X., Zhang W., Huang M., Ying G.G., Enhanced biodegradation of thiamethoxam with a novel polyvinyl alcohol (PVA)/sodium alginate (SA)/biochar immobilized <i>Chryseobacterium</i> sp H5, <i>Journal of Hazardous Materials</i> , 2023, 443, 130247
103.	Vanpeene M., Rajesh R., Ravichandran Y.D., Kuo Y.C., Gure G., Biomimetic Graphene Oxide-Xanthan Gum-Hydroxyapatite Composite Scaffold for Bone Tissue Engineering, <i>Chemistry Africa</i> , 2023, 6(1), 145-152
104.	Das M., Panda R., Ray L., Kundu C.N., Tripathy J., Fabrication of Graphene Oxide Reinforced Bio-Nanocomposite Films with Antibacterial Potential, <i>Macromolecular Symposia</i> , 2023, 407(1), 2100416
105.	Khachatryan G., Khachatryan K., Szczepankowska J., Krzan M., Krystyjan M., Design of Carbon Nanocomposites Based on Sodium Alginate/Chitosan Reinforced with Graphene Oxide and Carbon Nanotubes, <i>Polymers</i> , 2023, 15(4), 925
106.	Ehsan m., Razzaq H., Razzaque S., Kanwal M., Hussain I., Engineering nanocomposite membranes of sodium alginate-graphene oxide for efficient separation of oil-water and antifouling performance, <i>Journal of environmental Chemistry Engineering</i> , 2023, 11(1), 109185
107.	Sogut E., Seydim A.C., Utilization of chestnut shell lignin in alginate films, <i>journal of the science of Food and Agriculture</i> , 2023, 103(3), 1049-1058
108.	Liu T., Aniagor C.o., Ejimofor M.I., Lau S.Y., Jeevanandam J., Recent developments in the utilization of modified graphene oxide to adsorb dyes from water: A review, <i>Journal of Industrial and engineering Chemistry</i>
109.	Wang B., Han X., Wang Y., Zhong S., Cui X., Fabrication of alginate-based multi-crosslinked biomembranes for direct methanol fuel cell application, <i>Carbohydrate Polymers</i> , 2023, 300, 120261
110.	Gao Y., Liu Z., Li Y., Zou D., Three-in-one multifunctional luminescent metal-organic gels/sodium alginate beads for high-performance adsorption and detection of chlortetracycline hydrochloride, and high-security anti-counterfeiting, <i>Chemical Engineering Journal</i> , 2023, 452, 139194
111.	Sharifi M., Marjani A., Mahdavian L., Shamlouei H.R., Computational Study on Production Mechanism of Nano-Graphene Oxide/Poly Diallyl Dimethyl Ammonium Chloride (NGO/PDADMAC) Nanocomposite, <i>polycyclic Aromatic Compounds</i> , 2023, 43(2), 1158-1171
112.	Kanwal S., Irfan A., Al-Hussain S.A., Batool F., Zaki M.E.A., Fabrication of Composites of Sodium Alginate with Guar Gum and Iron Coated Activated Alumina for the Purification of Water from Direct Blue 86, <i>Coating</i> , 2023, 13(1), 103
113.	Liu Z., Chen X., Huang Z., Yan H., Lin Q., Self-assembled oleylamine grafted alginate aggregates for hydrophobic drugs loading and controlled release, <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2023, 72(3), 212-223
114.	Zhao Y., Kag J., Huang W., An D., He G., Copper Nanowire/Polydopamine-Modified Sodium Alginate Composite Films with Enhanced Long-Term Stability and Adhesion for Flexible Organic Light-Emitting Diodes, <i>ACS Applied Materials and Interfaces</i> , 2023
115.	Zhu Q., Chen X., Liu Z., Yan H., Lin Q., Development of alginate-chitosan composite scaffold incorporation of bacterial cellulose for bone tissue engineering, <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2023, 72(4), 296-307
116.	Kowalonek J., Stachowiak N., Bolczak K., Richert A., Physicochemical and Antibacterial Properties of Alginate Films Containing Tansy ( <i>Tanacetum vulgare</i> L.) Essential Oil, <i>Polymers</i> , 2023, 15(2), 260
117.	Ardiles C.S., THEORETICAL STUDY OF THE BONDING BETWEEN ALGINATE AND GRAPHENE OXIDE THROUGH THE INTERACTION OF ITS CARBOXYLIC GROUPS WITH THE DIVALENT METALS $\text{Cu}^{2+}$ , $\text{CO}_2^+$ , $\text{Zn}^{2+}$ , AND $\text{Mn}^{2+}$ , <i>Journal of the Chilean Chemical Society</i> , 2023, 68(1), 5767-5780
118.	Bambo M.F., Mokhena T.C., Matabola K.P., Synthesis of Natural Polymer-Carbonaceous Filler Composites, <i>Polymer Carbonaceous Filler based Composites for Wastewater treatment</i> , 2023, 29-67
119.	Rahman Khan M.M., Amin M.K., Chakraborty N., Advances and prospects of biodegradable polymer nanocomposites for fuel cell applications, <i>Biodegradable and Biocompatible Polymer Nanocomposites Processing Characterization and Applications</i> , 2023, 599-637
120.	Shaari N., Raduwan N.F., Yusoff Y.N., Harun N.A.M., Nik Zaiman N.F.H., Membrane and catalyst in direct methanol fuel cell and direct borohydride fuel cell application, <i>Renewable Energy Production and Distribution Solutions and Opportunities</i> , 2023, 2, 409-458
121.	Ramesh M., Rajeshkumar I., Balaji D., Bhuvaneshwari V., Sustainable and Renewable Nano-biocomposites for Sensors and Actuators: A Review on Preparation and Performance, <i>Current Analytical Chemistry</i> , 2023, 19(1), 38-69

122.	Li Y., Lin Z., He X., New nonporous fillers-based hybrid membranes for gas separations and water treatment process, <i>Current Trends and Future Developments on Bio Membranes Modern Approaches in Membrane Technology for Gas Separation and Water Treatment</i> , 2023, 53-105
123.	Fani K., Farahpour M.R., Tabatabaei z.G., SeO <sub>3</sub> <sup>2-</sup> / graphene oxide hybridized to multicomponent biopolymer based the scaffold to accelerate bone defect regeneration, <i>Ceramics International</i> , 2022, 48(24), 37212-37222
124.	Wen Y., Chen X., Yan H., Lin Q., Comparative Study of Physicochemical Properties of Alginate Composite Hydrogels Prepared by the Physical Blending and Electrostatic Assembly Methods, <i>Gels</i> , 2022, 8(12), 799
125.	Mahmoud M.E., Amira M.F., Azab M.M. H. M., Abdelfattah A.M., Inclusion of bimetallic Fe <sub>0.75</sub> Cu <sub>0.25</sub> -BDC MOFs into Alginate-MoO <sub>3</sub> /GO as a novel nanohybrid for adsorptive removal of hexavalent chromium from water, <i>Scientific reports</i> , 2022, 12(1), 19108
126.	Tan M.Y., Safanama D., Goh S.S., Srinivasan M., Fam D.W.H., Concepts and Emerging Trends for Structural Battery Electrolytes, <i>Chemistry an Aian journal</i> , 2022, 17(21), e202200784
127.	Kouser S., Pranhu A., Navada M.K., Manasa D.J., In vitro evaluation of modified halloysite nanotubes with sodium alginate-reinforced PVA/PVP nanocomposite films for tissue engineering applications, <i>Applied Nanoscience Switzerland</i> , 2022, 12(11), 3529-3545
128.	Liu Z., Chen X., Wen Y., Yan H., Lin Q., Chemical modification of alginate with tosylmethyl isocyanide, propionaldehyde and octylamine via the Ugi reaction for hydrophobic drug delivery, <i>Polymer Bulletin</i> , 2022, 79(9), 7809-7826
129.	Abboud a.S., Ghaffarinejad A., Mollahosseini A., Metformin-graphene oxide/alginate beads for the removal of toxic lead ions from aqueous media; kinetic and equilibrium studies, <i>environmental progress and Sustainable energy</i> , 2022, 41(5), e13860
130.	Yoon J.P., Kim D.H., Min S.G., Chung S.W., Yoon S.H., Effects of a graphene oxide-alginate sheet scaffold on rotator cuff tendon healing in a rat model, <i>Journal of Orthopaedic Surgery</i> , 2022, 30(3)
131.	Zhang J.P., Hou J.Q., Li M.X., Yang T.X., Xi B.D., A novel process for food waste recycling: A hydrophobic liquid mulching film preparation, <i>Environmental Research</i> , 2022, 212, 113332
132.	Yang p., Yu F., Yang Z., Zhang X., Ma J., Graphene oxide modified κ-carrageenan/sodium alginate double-network hydrogel for effective adsorption of antibiotics in a batch and fixed-bed column system, <i>Science of the Total Environment</i> , 2022, 837, 155662
133.	Wasilewska M., Derylo-Marczewska A., Adsorption of Non-Steroidal Anti-Inflammatory Drugs on Alginate-Carbon Composites—Equilibrium and Kinetics, <i>Materials</i> , 2022, 15(17), 6049
134.	Rivas-Sanchez a., Cruz-Cruz A., Gallareta-Olivares G., Parra-Saldivar R., Iqbal H.M.N., Carbon-based nanocomposite materials with multifunctional attributes for environmental remediation of emerging pollutants , <i>Chemosphere</i> , 2022, 303, 135054
135.	Appana Dalavi P., Pranhu A., Sajida M., Chatterjee K., Venkatesan J., Casein-Coated Molybdenum Disulfide Nanosheets Augment the Bioactivity of Alginate Microspheres for Orthopedic Applications, <i>ACS Omega</i> , 2022, 7(30), 26092-26106
136.	Pamlenyi K., Kristo K., Sovany T., Regdon jr. G., Development and evaluation of bioadhesive buccal films based on sodium alginate for allergy therapy, <i>Heliyon</i> , 2022, 8(8), e10364
137.	Bhagath Y.B., Lee S.Y., Kola M., Sahukari r., Modhavi G., Effect of Sulfamerazine on Structural Characteristics of Sodium Alginate Biopolymeric Films, <i>Biotechnology and Bioprocess Engineering</i> , 2022, 27(4), 596-606
138.	Dangi S.B., Hashmi S.Z., Kumar U., hasan p.M.Z., Alvi P.A., Exploration of spectroscopic, surface morphological, structural, electrical, optical and mechanical properties of biocompatible PVA-GO PNCs, <i>Diamond and related materials</i> , 2022, 127, 109158
139.	Minh Dat n., Minh Huang l., Tien Dat N., Thanh Phong M., Huu Hieu N., Synthesis of hygroscopic sodium alginate-modified graphene oxide: Kinetic, isotherm, and thermodynamic study, <i>europa Polymer Journal</i> , 2022, 174, 111333
140.	Muthulakshmi L., Prabakaran S., Ramalingam V., Ramakrishna S., Luo H., Sodium alginate nanofibers loaded Terminalia catappa scaffold regulates intrinsic apoptosis signaling in skin melanoma cancer, <i>Process Biochemistry</i> , 2022, 118, 92-102
141.	Fu D., Chu Z., Fan X., Jia Z., Teng M., Study on surface wetting property regulation of greenhouse film and its antifogging performance, <i>Journal of Coatings Technology and Research</i> , 2022, 19(4), 1199-1209
142.	Shahbaz A., Hussain N., Basra M.A.R., Bilal M., Polysaccharides-Based Nano-Hybrid Biomaterial Platforms for Tissue Engineering, Drug Delivery, and Food Packaging Applications, <i>Starch Staerke</i> , 2022, 74(7-8) 2200023

143.	Wang H., Chen X., Wen Y., Yan H., Lin Q., A Study on the Correlation between the Oxidation Degree of Oxidized Sodium Alginate on Its Degradability and Gelation, <i>polymers</i> , 2022, 14(9), 1679
144.	Ai A.K.S., Louis C., Chitosan nanohybrid proton exchange membranes based on CNT and exfoliated MoS <sub>2</sub> for fuel cell applications, <i>Journal of polymer research</i> , 2022, 29(5), 203
145.	Siddiqui t., Balu R., Mata J., Dutta N.K., Choudhury N.R., Electrospun Composite Nanofiltration Membranes for Arsenic Removal, <i>polymers</i> , 2022, 14(10), 1980
146.	Malliappan S.P., Yetisgin A.A., Sahin S.B., Demir E., Cetinel S., Bone tissue engineering: Anionic polysaccharides as promising scaffolds, <i>Carbohydrate Polymers</i> , 2022, 283, 119142
147.	Hurtado A., Aljabali A.A.A., Mishra V., Tambuwala M.M., Serrano-Aroca A., Alginate: Enhancement Strategies for Advanced Applications , <i>International journal of Molecular Sciences</i> , 2022, 23(9), 4486
148.	Beydaghi H., Bellani S., Najafi I., Pellegrini V., Bonaccorso F., Sulfonated NbS <sub>2</sub> -based proton-exchange membranes for vanadium redox flow batteries, <i>Nanoscale</i> , 2022, 14(16), 6152-6161
149.	Hao J., Xu J., Zhang W., Co Y., Sun B., The improvement of the physicochemical properties and bioaccessibility of lutein microparticles by electrostatic complexation, <i>Food Hydrocolloids</i> , 2022, 125, 107381
150.	Li Z., Li D., Sun X., Yan H., Lin Q., Process Optimization for Ball Milling-assisted Degradation of Sodium Alginate as Well as Its Structure and Property, <i>Cailiao Daobao Materials Reports</i> , 2022, 36(6), 21010003
151.	Rhimi A., Zlaoui K., Horchani-Naifer K., Ennigrou D.J., Characterization and extraction of sodium alginate from Tunisian algae: synthesizing a cross-linked ultrafiltration membrane, <i>Iranian polymer Journal English Edition</i> , 2022, 31(3), 367-382
152.	Gudimalla A., Jose J., Rajendran J.V., Gurram G., Thomas S., Synthesis of silver nanoparticles by plant extract, incorporated into alginate films and their characterizations, <i>Chemical papers</i> , 2022, 76(2), 1031-1043
153.	Fuzil N.S., Othman N.H., Jamal N.A.S.R.A., Him N.R.N., Marpani F., Bisphenol A Adsorption from Aqueous Solution Using Graphene Oxide-Alginate Beads, <i>journal of Polymers and the Environment</i> , 2022, 30(2), 597-612
154.	Jiang Y.H., Zhang Y.Q., Gao C., Xiao Z.Y., Zhai S.R., Superhydrophobic aerogel membrane with integrated functions of biopolymers for efficient oil/water separation, <i>Separation and Purification technology</i> , 2022, 282, 120138
155.	Xie y., Gao P., He F., Zhang C., Application of Alginate-Based Hydrogels in Hemostasis, <i>gels</i> , 2022, 8(2), 109
156.	Tejjido R., Ruiz-Rubio I., Echaide a.G., Lanceros-mendez S., Zhang Q., State of the art and current trends on layered inorganic-polymer nanocomposite coatings for anticorrosion and multi-functional applications, <i>Progress in organic Coatings</i> , 2022, 163, 106684
157.	Liang z., Wang S., Zhu K., Wei F., Chen D., Enhancing the tribological properties and corrosion resistance of graphene-based lubricating grease via ultrasonic-assisted ball milling, <i>Colloids and Surfaces A Physicochemical and Engineering Aspects</i> , 2022, 633, 127889
158.	Giriappa Thimmaiah p., Mudinepalli V.R., Thota S.R., Obireddy S.R., Lai W.f., Preparation, Characterization and Dielectric Properties of Alginate-Based Composite Films Containing Lithium Silver Oxide Nanoparticles, <i>Frontiers in chemistry</i> , 2022, 9, 777079
159.	Tang L., Yang R., Liu H., Li M., Yin X., pH-sensitive magnetic microcapsules for simultaneously controlled-releasing two drugs, <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2022, 7(14), 1051-1059
160.	Lu Z., Ma Q., Songfeng E., Geng B., Zhao R., Robust aramid nanopaper based on the uniform wrap of sodium alginate on the surface of nanofibers, <i>journal of Materials Science</i> , 2022, 57(2), 1111-1122
161.	Chen X., Yan H., Bao C., Zhang T., Lin Q., Fabrication and evaluation of homogeneous alginate/polyacrylamide–chitosan–gelatin composite hydrogel scaffolds based on the interpenetrating networks for tissue engineering, <i>polymer Engineering and Science</i> , 2022, 62(1), 116-128
162.	Bora D., Jayaramudu J., Saikia P., Ray S.S., Sadiku E.R., Effect of boehmite alumina nanoparticles on the physical and chemical characteristics of eco-friendly sodium alginate/polyvinyl alcohol bio-nanocomposite film, <i>International Journal of Polymer Analysis and Characterization</i> , 2022, 27(4), 236-251
163.	Shabbir A., Akbar M., Yaqoob A., Ahmad A., Recent advances and development of blended sodium alginate wastewater management, <i>Sodium Alginate Based Nanomaterials for Wastewater Treatment</i> , 2022, 315-330
164.	Datta D., Das K.P., Deepak K.S., Das B., Candidates of functionalized nanomaterial-based membranes, <i>Membranes with Functionalized Nanomaterials Current and Emerging Research Trends in Membrane Technology</i> , 2022, 81-127
165.	Jayachandran V., Murugan s.S., Dalavi p.A., Gurushanthappa Vishalakshi Y.D., Seong G.H., Alginate-based Composite Microspheres: Preparations and Applications for Bone Tissue Engineering, <i>Current Pharmaceutical design</i> , 2022, 1067-1081

166.	Li D., Li P., Xu Y., Wang H., Lin H., Progress in Montmorillonite Functionalized Artificial Bone Scaffolds: Intercalation and Interlocking, Nanoenhancement, and Controlled Drug Release, <i>Journal of Nanomaterials</i> , 2022, 7900382
167	Arzhakova, O.V., Arzhakov, M.S., Badamshina, E.R., Yakimansky, A.V., Yaroslavov, A.A., <i>Polymers for the future, Russian chemical reviews</i> , 2022, 91(12), RCR5062
168.	Mahmudunnabi D.M., Alam M.Z., Choudhury T.R., Nurnabi M., Preparation of calcium alginate-graphene oxide composite and its application for the removal of Maxilon Blue, <i>Desalination and Water Treatment</i> , 2021, 242, 293-303
169.	Ma D.E.T., Yang S., Efficient removal of Cu(II) with graphene oxide-titanium dioxide/sodium alginate composite beads: Preparation, characterization, and adsorption mechanism, <i>Journal of Environmental Chemical Engineering</i> , 2021, 9(6), 106501
170.	Gharaie S.S., Seyfoori A., Just B.K., Godau B., Akbari M., Silicate-based electro-conductive inks for printing soft electronics and tissue engineering, <i>gels</i> , 2021, 7(4), 240
171.	Wen Y., Chen X., Liu Z., Yan H., Lin Q., Hydrophobically Modified Alginate Derivatives via the Ugi Multicomponent Reaction for the Development of Hydrophobic Pharmaceutical Formulations, <i>Chemistryselect</i> , 2021, 6(40), 10965-10973
172.	Zhao C., Hu L., Zhang C., Wang X., Huo Z., Preparation of biochar-interpenetrated iron-alginate hydrogel as a pH-independent sorbent for removal of Cr(VI) and Pb(II), <i>Environmental pollution</i> , 2021, 287, 117303
173.	Yu Y., Sun R., Wang Z., Yao M., Wang G., Self - supported Graphene Oxide/Sodium Alginate/1, 2-Propanediamine composite membrane and its Pb <sup>2+</sup> adsorption capability, <i>journal of Environmental Chemical Engineering</i> , 2021, 9(5), 106254
174.	Chen X., Zhu Q., Liu C., Yan H., Lin Q., Esterification of alginate with alkyl bromides of different carbon chain lengths via the bimolecular nucleophilic substitution reaction: Synthesis, characterization, and controlled release performance, <i>Polymers</i> , 2021, 13(19), 3351
175.	Chen X., Zhu Q., li Z., Yan H., Lin Q., The molecular structure and self-assembly behavior of reductive amination of oxidized alginate derivative for hydrophobic drug delivery, <i>Molecules</i> , 2021, 26(19), 5821
176.	Sabbagh N., Tahvildari k, Mehrdad Sharif A.A., Application of chitosan-alginate bio composite for adsorption of malathion from wastewater: Characterization and response surface methodology, <i>Journal of Contaminant Hydrology</i> , 2021, 242, 103868
177.	Dojcinovic M.P., Vasiljevic Z.Z., KovacJ., tadic N.B., Nikolic M.V., Nickel manganite-sodium alginate nano-biocomposite for temperature sensing, <i>Chemosensors</i> , 2021, 9(9), 241
178.	Alves Z., Ferreira N.M., Mendo S., Ferreira P., Nunes C., Design of alginate-based bionanocomposites with electrical conductivity for active food packaging, <i>International Journal of Molecular Sciences</i> , 2021, 22(18), 9943
179.	Li Z., Chen X., Bao C., Yan H., Lin Q., Fabrication and evaluation of alginate/bacterial cellulose nanocrystals–chitosan–gelatin composite scaffolds, <i>Molecules</i> , 2021, 26(16), 5003
180.	Mihai A.I., Garea S.A., Vasile E., Ghebaour A., Iovu H., Hybrid hosts based on sodium alginate and porous clay heterostructures for drug encapsulation, <i>Polymers</i> , 2021, 13(16), 2803
181.	Dewangan R., Asthana A., Singh A.K., Carabineiro S.A.C., Control of surface functionalization of graphene-metal oxide polymer nanocomposites prepared by a hydrothermal method, <i>Polymer Bulletin</i> , 2021, 78(8), 4665-4683
182.	Samoila P., Grecu I., Asandulesa M., Cojocaru C., Harabagiu V., Bio-based ionically cross-linked alginate composites for PEMFC potential applications, <i>Reactive and Functional polymers</i> , 2021, 165, 104967
183.	Telepanich A., Marshall T., Gregori S., Marangoni A.G., Pensini E., Graphene-Alginate Fluids as Unconventional Electrodes for the Electrokinetic Remediation of Cr(VI), water Air and Soil pollution, 2021, 232(8), 334
184.	G.V.Y.D., Prabhu A., Anil S., Vankatesan J., Preparation and characterization of dexamethasone loaded sodium alginate-graphene oxide microspheres for bone tissue engineering, <i>Journal of Drug Delivery Science and Technology</i> , 2021, 64, 102624
185.	Bibi A., Rehman S.U., Akhtar T., Akhter K., Shahzad M.I., Use of alginate-chitosan/MWCNTS as a novel support for Ag <sub>2</sub> O immobilization in catalytic reduction of 4-NP, <i>Desalination and Water Treatment</i> , 2021, 228, 261-275
186.	Azizi-Lalabadi M., Jafari S.M., Bio-nanocomposites of graphene with biopolymers; fabrication, properties, and applications, <i>Advances in Colloid and Interface Science</i> , 2021, 292, 102416
187.	Gudimalla, A., Jose, J., Varghese, R.J., Thomas, S, Green Synthesis of Silver Nanoparticles Using <i>Nymphae odorata</i> Extract Incorporated Films and Antimicrobial Activity (2021) <i>Journal of Polymers and the Environment</i> , 29 (5), pp. 1412-1423

188.	Abdollahiyan, P., Oroojalian, F., Mokhtarzadeh, A, The triad of nanotechnology, cell signalling, and scaffold implantation for the successful repair of damaged organs: An overview on soft-tissue engineering (2021) <i>Journal of Controlled Release</i> , 332, pp. 460-492
189	Yang, Z., Liu, X., Liu, X., Wu, J., Zhu, X., Bai, Z., Yu, Z., Preparation of $\beta$ -cyclodextrin/graphene oxide and its adsorption properties for methylene blue (2021) <i>Colloids and Surfaces B: Biointerfaces</i> , 200, art. no. 111605
190.	Masoumi, H., Ghaemi, A., Gilani, H.G, Evaluation of hyper-cross-linked polymers performances in the removal of hazardous heavy metal ions: A review (2021) <i>Separation and Purification Technology</i> , 260, art. no. 118221
191.	Beydaghi, H., Najafi, L., Bellani, S., Bagheri, A., Martín-García, B., Salarizadeh, P., Hooshiyari, K., Naderizadeh, S., Serri, M., Pasquale, L., Wu, B., Oropesa-Nuñez, R., Sofer, Z., Pellegrini, V., Bonaccorso, F.,
192.	Functionalized metallic transition metal dichalcogenide (TaS <sub>2</sub> ) for nanocomposite membranes in direct methanol fuel cells (2021) <i>Journal of Materials Chemistry A</i> , 9 (10), pp. 6368-6381
193.	Nithya Priya, V., Rajkumar, M., Mobika, J., LintoSibi, S.P, Alginate coated layered double hydroxide/reduced graphene oxide nanocomposites for removal of toxic As (V) from wastewater (2021) <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 127, art. no. 114527
194	Shende, P., Pathan, N, Potential of carbohydrate-conjugated graphene assemblies in biomedical applications (2021) <i>Carbohydrate Polymers</i> , 255, art. no. 117385
195	Lungu, A., Cernencu, A.I., Vlasceanu, G.M., Florea, N.M., Ionita, M., Iovu, H, 3D POSS cages decorated 2D graphenic sheets: A versatile platform for silicon-carbonaceous nano-additives design (2021) <i>Composites Part B: Engineering</i> , 207, art. no. 108578
196	Hu, P., Zhu, L., Zheng, F., Lai, J., Xu, H., Jia, J, Graphene oxide as a pesticide carrier for enhancing fungicide activity against <i>Magnaportheorhynae</i> (2021) <i>New Journal of Chemistry</i> , 45 (5), pp. 2649-2658
197	Bibi, A., Sadiq-Ur-rehman, Akhtar, T., Ahmad, I, Synthesis of eco-friendly alginate-based supports for silver oxide immobilization in catalytic degradation of textile dyes (2021) <i>Desalination and Water Treatment</i> , 213, pp. 406-417
198	Jin, X., Jiang, H., Qiao, F., Huang, W., Bao, X., Wang, Z., Hu, Q, Fabrication of alginate-P(SBMA-co-AAm) hydrogels with ultrastretchability, strain sensitivity, self-adhesiveness, biocompatibility, and self-cleaning function for strain sensors (2021) <i>Journal of Applied Polymer Science</i> , 138 (3), art. no. 49697
199	Marangoni Júnior, L., Vieira, R.P., Jamróz, E., Anjos, C.A.R., Furcellaran: An innovative biopolymer in the production of films and coatings (2021) <i>Carbohydrate Polymers</i> , 252, art. no. 117221
200	González-Domínguez, J.M., Álvarez-Sánchez, M.A., Hadad, C., Benito, A.M., Maser, W.K., Carbon Nanostructures and Polysaccharides for Biomedical Materials (2021) <i>RSC Nanoscience and Nanotechnology</i> , 2021-January (48), pp. 98-152
201	Li, X., Chen, J., Xu, Z., Zou, Q., Yang, L., Ma, M., Shu, L., He, Z., Ye, C., Osteoblastic differentiation of stem cells induced by graphene oxide-hydroxyapatite-alginate hydrogel composites and construction of tissue-engineered bone, 2020, <i>Journal of Materials Science: Materials in Medicine</i> , 31 (12), art. no. 125
202	Nawaz, M., Khan, A.A., Hussain, A., Jang, J., Jung, H.-Y., Lee, D.S., Reduced graphene oxide-TiO <sub>2</sub> /sodium alginate 3-dimensional structure aerogel for enhanced photocatalytic degradation of ibuprofen and sulfamethoxazole, 2020, <i>Chemosphere</i> , 261, art. no. 127702
203	Jiang, Y., Li, C., Jiang, P., Li, W., Preparation and characterization of viscose composites fiber and its enhancing effect in photothermal conversion property, 2020, <i>Polymer Composites</i> , 41 (10), pp. 4084-4092
204	Karunarathna, M.H.J.S., Bailey, K.M., Ash, B.L., Matson, P.G., Wildschutte, H., Davis, T.W., Midden, W.R., Ostrowski, A.D., Nutrient capture from aqueous waste and photocontrolled fertilizer delivery to tomato plants using Fe(III)-polysaccharide hydrogels, 2020, <i>ACS Omega</i> , 5 (36), pp. 23009-23020
205	Jin, X., Jiang, H., Li, G., Fu, B., Bao, X., Wang, Z., Hu, Q., Stretchable, conductive PAni-PAAm-GOCS hydrogels with excellent mechanical strength, strain sensitivity and skin affinity, 2020, <i>Chemical Engineering Journal</i> , 394, art. no. 124901
206	Yang, L., Yang, J., Qin, X., Kan, J., Zeng, F., Zhong, J., Ternary composite films with simultaneously enhanced strength and ductility: Effects of sodium alginate-gelatin weight ratio and graphene oxide content, 2020, <i>International Journal of Biological Macromolecules</i> , 156, pp. 494-503
207.	Ding, J., Huang, D., Wang, W., Lu, Y., Dong, W., Zong, L., Wang, Q., Wang, A., Significantly improve the water and chemicals resistance of alginate-based nanocomposite films by a simple in-situ surface coating approach, 2020, <i>International Journal of Biological Macromolecules</i> , 156, pp. 1297-1307
208	Jamróz, E., Khachatryan, G., Kopel, P., Juszczak, L., Kawecka, A., Krzyściak, P., Kucharek, M., Bębenek, Z., Zimowska, M., Furcellaran nanocomposite films: The effect of nanofillers on the structural, thermal, mechanical and antimicrobial properties of biopolymer films, 2020, <i>Carbohydrate Polymers</i> , 240, art. no. 116244

209	Pan, T., Chen, D., Xu, W., Fang, J., Wu, S., Liu, Z., Wu, K., Fang, Z., Anionic polyacrylamide-assisted construction of thin 2D-2D WO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> Step-scheme heterojunction for enhanced tetracycline degradation under visible light irradiation, 2020, Journal of Hazardous Materials, 393, art. no. 122366
210	UgurNigiz, F., Graphene oxide-sodium alginate membrane for seawater desalination through pervaporation, 2020, Desalination, 485, art. no. 114465
211	Tiwari, S., Patil, R., Dubey, S.K., Bahadur, P., Graphene nanosheets as reinforcement and cell-instructive material in soft tissue scaffolds, 2020, Advances in Colloid and Interface Science, 281, art. no. 102167
212	Castro, G.F.D., Mattiello, E.M., Ferreira, J.A., Zotarelli, L., Tronto, J., Synthesis, characterization and agronomic use of alginate microspheres containing layered double hydroxides intercalated with borate, 2020, New Journal of Chemistry, 44 (24), pp. 10066-10075
213	Jing, Z., Dai, X., Xian, X., Du, X., Liao, M., Hong, P., Li, Y., Tough, stretchable and compressive alginate-based hydrogels achieved by non-covalent interactions, 2020, RSC Advances, 10 (40), pp. 23592-23606
214	Llorens-Gámez, M., Salesa, B., Serrano-Aroca, Á., Physical and biological properties of alginate/carbon nanofibers hydrogel films, 2020, International Journal of Biological Macromolecules, 151, pp. 499-507
215	Varaprasad, K., Jayaramudu, T., Kanikireddy, V., Toro, C., Sadiku, E.R., Alginate-based composite materials for wound dressing application:A mini review, 2020, Carbohydrate Polymers, 236, art. no. 116025
216	Xu, S., Li, S.-Y., Zhang, M., Zeng, H.-Y., Wu, K., Tian, X.-Y., Chen, C.-R., Pan, Y., Fabrication of green alginate-based and layered double hydroxides flame retardant for enhancing the fire retardancy properties of polypropylene, 2020, Carbohydrate Polymers, 234, art. no. 115891
217	Wang, M., Gao, Q., Gao, J., Zhu, C., Chen, K., Core-shell PEDOT:PSS/SA composite fibers fabricated: Via a single-nozzle technique enable wearable sensor applications, 2020, Journal of Materials Chemistry C, 8 (13), pp. 4564-4571
218	Feng, P., Jia, J., Peng, S., Yang, W., Bin, S., Shuai, C., Graphene oxide-driven interfacial coupling in laser 3D printed PEEK/PVA scaffolds for bone regeneration, 2020, Virtual and Physical Prototyping, 15 (2), pp. 211-226
219	Farokhi, M., JonidiShariatzadeh, F., Solouk, A., Mirzadeh, H., Alginate Based Scaffolds for Cartilage Tissue Engineering: A Review, 2020, International Journal of Polymeric Materials and Polymeric Biomaterials, 69 (4), pp. 230-247
230	Ma, N., Gao, Q., Li, X., Xu, D., Yuan, Y., Cao, Y., Enhancing the physicochemical stability and digestibility of DHA emulsions by encapsulation of DHA droplets in caseinate/alginate honeycomb-shaped microparticles, 2020, Food and Function, 11 (3), pp. 2080-2093
231	Larrazza, I., Ugarte, L., Fayanas, A., Gabilondo, N., Arbelaiz, A., Corcuera, M.A., Eceiza, A., Influence of process parameters in graphene oxide obtention on the properties of mechanically strong alginate nanocomposites, 2020, Materials, 13 (5), art. no. 1081
232	Sabateri Serra, R., Molina-Mateo, J., Torregrosa-Cabanilles, C., Andrio-Balado, A., Dueñas, J.M.M., Serrano-Aroca, A., Bio-Nanocomposite hydrogel based on zinc alginate/graphene oxide: Morphology, structural conformation, thermal behavior/degradation, and dielectric properties, 2020, Polymers, 12 (3), art. no. 702
233	Venkateshaiah, A., Cheong, J.Y., Habel, C., Waclawek, S., Lederer, T., Černík, M., Kim, I.-D., Padil, V.V.T., Agarwal, S., Tree Gum-Graphene Oxide Nanocomposite Films as Gas Barriers, 2020, ACS Applied Nano Materials, 3 (1), pp. 633-640
234	Sukhodub, L.B., Sukhodub, L.F., Prylutsky, Y.I., Kumeda, M.A., Ritter, U., Graphene oxide influences on mechanical properties and drug release ability of hydroxyapatite based composite material, 2020, Springer Proceedings in Physics, 244, pp. 139-149
235	Xie, Y.-L., Jiang, W., Li, F., Zhang, Y., Liang, X.-Y., Wang, M., Zhou, X., Wu, S.-Y., Zhang, C.-H., Controlled Release of Spirotetramat Using Starch-Chitosan-Alginate-Encapsulation, 2020, Bulletin of Environmental Contamination and Toxicology, 104 (1), pp. 149-155
236	Dewangan, R., Asthana, A., Singh, A.K., Carabineiro, S.A.C., Control of surface functionalization of graphene-metal oxide polymer nanocomposites prepared by a hydrothermal method, 2020, Polymer Bulletin
237	Gudimalla, A., Jose, J., Varghese, R.J., Thomas, S., Green Synthesis of Silver Nanoparticles Using Nymphae odorata Extract Incorporated Films and Antimicrobial Activity, 2020, Journal of Polymers and the Environment
238	Mei, Y., Tang, X., Guo, J., Sun, T.-Y., Zhang, Y., Chen, K., Directed Assembly of Large-Sized, Mechanically Robust, Nacre-Inspired Graphene Oxide/Sodium Alginate Nanocomposite Paper, 2020, Macromolecular Materials and Engineering
239	Liu, F., Liu, C., Zheng, B., He, J., Liu, J., Chen, C., Lee, I.-S., Wang, X., Liu, Y., Synergistic effects on incorporation of $\beta$ -tricalcium phosphate and graphene oxide nanoparticles to silk fibroin/soy protein isolate scaffolds for bone tissue engineering, 2020, Polymers, 12 (1), art. no. 69

240	Yadav, M., Behera, K., Chang, Y.-H., Chiu, F.-C., Cellulose nanocrystal reinforced chitosan based UV barrier composite films for sustainable packaging, 2020, <i>Polymers</i> , 12 (1), art. no. 202
241	Bansod, N.D., Roy, K., Das, C., Vidyasagar, D., Potiyaraj, P., Development and characterization of graphitic carbon nitride as nonblack filler in natural rubber composites, (2019) <i>Journal of Applied Polymer Science</i> , 136 (42), art. no. 48136
242	Shaari, N., Kamarudin, S.K., Zakaria, Z., Potential of sodium alginate/titanium oxide biomembrane nanocomposite in DMFC application, (2019) <i>International Journal of Energy Research</i> , 43 (14), pp. 8057-8069
243	Tovar, C.D.G., Castro, J.I., Valencia, C.H., Porras, D.P.N., Hernandez, J.H.M., Valencia, M.E., Velásquez, J.D., Chaur, M.N., Preparation of chitosan/poly(Vinyl alcohol) nanocomposite films incorporated with oxidized carbon nano-onions (multi-layer fullerenes) for tissue-engineering applications, (2019) <i>Biomolecules</i> , 9 (11), art. no. 684
244	Li, R., Shan, Z.H., 3-Aminopropyltriethoxysilane functionalized graphite oxide/waterborne polyurethane composites: Structural, thermal conductivity and physic-chemical properties, (2019) <i>Diamond and Related Materials</i> , 98, art. no. 107481
245	Correa, E., Moncada, M.E., Gutiérrez, O.D., Vargas, C.A., Zapata, V.H., Characterization of polycaprolactone/rGO nanocomposite scaffolds obtained by electrospinning, (2019) <i>Materials Science and Engineering C</i> , 103, art. no. 109773
246	Liu, L., Yang, M., Gao, S., Zhang, X., Cheng, X., Xu, Y., Zhao, H., Huo, L., Major, Z., Co <sub>3</sub> O <sub>4</sub> Hollow Nanosphere-Decorated Graphene Sheets for H <sub>2</sub> S Sensing near Room Temperature, (2019) <i>ACS Applied Nano Materials</i> , 2 (9), pp. 5409-5419
247	Zhang, X., Lin, X., He, Y., Luo, X., Phenolic hydroxyl derived copper alginate microspheres as superior adsorbent for effective adsorption of tetracycline, (2019) <i>International Journal of Biological Macromolecules</i> 136, pp. 445
248	Olad, A., Bakht KhoshHagh, H., Mirmohseni, A., FarshiAzhar, F., Graphene oxide and montmorillonite enriched natural polymeric scaffold for bone tissue engineering (2019) <i>Ceramics International</i> , 45 (12), pp. 15609-15619
249	Bibi, A., Rehman, S.-U., Yaseen, A., Alginate-nanoparticles composites: Kinds, reactions and applications (2019) <i>Materials Research Express</i> , 6 (9), art. no. 092001
250	Zindani, D., Kumar, K., Graphene-based polymeric nano-composites: An introspection into functionalization, processing techniques and biomedical applications, (2019) <i>Biointerface Research in Applied Chemistry</i> , 9 (3), pp. 3926-3933
251	Zhang, S., Han, D., Ding, Z., Wang, X., Zhao, D., Hu, Y., Xiao, X., Fabrication and Characterization of One Interpenetrating Network Hydrogel Based on Sodium Alginate and Polyvinyl Alcohol, (2019) <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 34 (3), pp. 744-751
252	Hu, M., Guo, J., Du, J., Liu, Z., Li, P., Ren, X., Feng, Y., Development of Ca <sup>2+</sup> -based, ion-responsive superabsorbent hydrogel for cement applications: Self-healing and compressive strength, (2019) <i>Journal of Colloid and Interface Science</i> , 538, pp. 397-403
253	Valentin, T.M., Landauer, A.K., Morales, L.C., DuBois, E.M., Shukla, S., Liu, M., Stephens Valentin, L.H., Franck, C., Chen, P.-Y., Wong, I.Y., Alginate-graphene oxide hydrogels with enhanced ionic tunability and chemomechanical stability for light-directed 3D printing, (2019) <i>Carbon</i> , 143, pp. 447-456
254	Yang, M., Wang, L., Xia, Y., Ammonium persulphate induced synthesis of polymethyl methacrylate grafted sodium alginate composite films with high strength for food packaging, (2019) <i>International Journal of Biological Macromolecules</i> , 124, pp. 1238-1245
255	Hou, L., Wu, P., Exploring the hydrogen-bond structures in sodium alginate through two-dimensional correlation infrared spectroscopy, (2019) <i>Carbohydrate Polymers</i> , 205, pp. 420-426
256	Hassan, A.F., Enhanced adsorption of 2, 4-dichlorophenoxyacetic acid from aqueous medium by graphene oxide/alginate composites, (2019) <i>Desalination and Water Treatment</i> , 141, pp. 187-196
257	Zhuang, Y., Liu, Q., Kong, Y., Shen, C., Hao, H., Dionysiou, D.D., Shi, B., Enhanced antibiotic removal through a dual-reaction-center Fenton-like process in 3D graphene based hydrogels, (2019) <i>Environmental Science: Nano</i> , 6 (2), pp. 388-398
258	Weng, S.X., Yousefi, N., Tufenkji, N., Self-Assembly of Ultralarge Graphene Oxide Nanosheets and Alginate into Layered Nanocomposites for Robust Packaging Materials, (2019) <i>ACS Applied Nano Materials</i> , 2 (3), pp. 1431
259	Zheng, D., Bai, B., Xu, X., He, Y., Li, S., Hu, N., Wang, H., Fabrication of detonation nanodiamond@alginate hydrogel beads and their performance in sunlight-triggered water release, (2019) <i>RSC Advances</i> , 9 (48), pp. 27961-27972
260	Jaafar, M.H.M., Hamid, K.A., Chitosan-coated alginate nanoparticles enhanced absorption profile of insulin via oral administration, (2019) <i>Current Drug Delivery</i> , 16 (7), pp. 672-686

261	Yadav, M., Ahmad, S., Chiu, F.-C., Graphene oxide dispersed polyvinyl chloride/alkyd green nanocomposite film: Processing and physico-mechanical properties (2018) <i>Journal of Industrial and Engineering Chemistry</i> , 68, pp. 246-256
262	Shaari, N., Kamarudin, S.K., Performance of crosslinked sodium alginate/sulfonated graphene oxide as polymer electrolyte membrane in DMFC application: RSM optimization approach (2018) <i>International Journal of Hydrogen Energy</i> , 43 (51), pp. 22986-23003
263	Mohammadi, A., Doctorsafaei, A.H., Zia, K.M., Alginate/calix[4]arenes modified graphene oxide nanocomposite beads: Preparation, characterization, and dye adsorption studies (2018) <i>International Journal of Biological Macromolecules</i> , 120, pp. 1353-1361
264	Nawaz, M., Moztahida, M., Kim, J., Shahzad, A., Jang, J., Miran, W., Lee, D.S. Photodegradation of microcystin-LR using graphene-TiO <sub>2</sub> /sodium alginate aerogels (2018) <i>Carbohydrate Polymers</i> , 199, pp. 109-118
265	Yuan, J., Guo, L., Wang, S., Liu, D., Qin, X., Zheng, L., Tian, C., Han, X., Chen, R., Yin, R., Preparation of self-assembled nanoparticles of $\epsilon$ -polylysine-sodium alginate: A sustained-release carrier for antigen delivery (2018) <i>Colloids and Surfaces B: Biointerfaces</i> , 171, pp. 406-412
266	Zhang, R., Guo, J., Zhao, M., Wu, J., Zhang, S., Yu, Y., Effect of graphene oxide on the molecules of a sodium alginate–krill protein composite system and characterization of the system's composite fiber morphology and mechanical properties (2018) <i>Journal of Applied Polymer Science</i> , 135 (35), art. no. 46642
267	Zhao, W., Qi, Y., Wang, Y., Xue, Y., Xu, P., Li, Z., Li, Q., Morphology and thermal properties of calcium alginate/reduced graphene oxide composites (2018) <i>Polymers</i> , 10 (9), art. no. 990
268	Shaari, N., Kamarudin, S.K., Basri, S., Molecular dynamics simulations of sodium alginate/sulfonated graphene oxide membranes properties (2018) <i>Heliyon</i> , 4 (9), art. no. e00808
269	Yi, X., Sun, F., Han, Z., Han, F., He, J., Ou, M., Gu, J., Xu, X., Graphene oxide encapsulated polyvinyl alcohol/sodium alginate hydrogel microspheres for Cu (II) and U (VI) removal (2018) <i>Ecotoxicology and Environmental Safety</i> , 158, pp. 309-318
270	He, P., Tang, X., Chen, L., Xie, P., He, L., Zhou, H., Zhang, D., Fan, T., Patterned Carbon Nitride–Based Hybrid Aerogel Membranes via 3D Printing for Broadband Solar Wastewater Remediation (2018) <i>Advanced Functional Materials</i> , 28 (29), art. no. 1801121
271	Serrano-Aroca, Á., Iskandar, L., Deb, S., Green synthetic routes to alginate-graphene oxide composite hydrogels with enhanced physical properties for bioengineering applications (2018) <i>European Polymer Journal</i> , 103, pp. 198-206
272	Zhou, F., Feng, X., Yu, J., Jiang, X., High performance of 3D porous graphene/lignin/sodium alginate composite for adsorption of Cd(II) and Pb(II) (2018) <i>Environmental Science and Pollution Research</i> , 25 (16), pp. 15651-15661
273	Shao, Z.-J., Huang, X.-L., Yang, F., Zhao, W.-F., Zhou, X.-Z., Zhao, C.-S., Engineering sodium alginate-based cross-linked beads with high removal ability of toxic metal ions and cationic dyes (2018) <i>Carbohydrate Polymers</i> , 187, pp. 85-93
274	Kolanthai, E., Sindu, P.A., Khajuria, D.K., Veerla, S.C., Kuppuswamy, D., Catalani, L.H., Mahapatra, D.R., Graphene Oxide - A Tool for the Preparation of Chemically Crosslinking Free Alginate-Chitosan-Collagen Scaffolds for Bone Tissue Engineering (2018) <i>ACS Applied Materials and Interfaces</i> , 10 (15), pp. 12441-12452
275	Jiang, X., Xiang, N., Zhang, H., Sun, Y., Lin, Z., Hou, L., Preparation and characterization of poly(vinyl alcohol)/sodium alginate hydrogel with high toughness and electric conductivity (2018) <i>Carbohydrate Polymers</i> , 186, pp. 377-383
276	Vilcinskas, K., Jansen, K.M.B., Mulder, F.M., Picken, S.J., Koper, G.J.M., Composition dependent properties of graphene (oxide)-alginate biopolymer nanocomposites (2018) <i>Polymer Composites</i> , 39, pp. E236-E249
277	Silva, C., Caridade, S.G., Cunha, E., Sousa, M.P., Rocha, H., Mano, J.F., Paiva, M.C., Alves, N.M., Nanostructured Biopolymer/Few-Layer Graphene Freestanding Films with Enhanced Mechanical and Electrical Properties (2018) <i>Macromolecular Materials and Engineering</i> , 303 (4), art. no. 1700316
278	Yan, H., Huang, D., Chen, X., Liu, H., Feng, Y., Zhao, Z., Dai, Z., Zhang, X., Lin, Q., A novel and homogeneous scaffold material: preparation and evaluation of alginate/bacterial cellulose nanocrystals/collagen composite hydrogel for tissue engineering (2018) <i>Polymer Bulletin</i> , 75 (3), pp. 985-1000
279	Yu, F., Li, Y., Ma, J., Environmental application and design of alginate/graphene double-network nanocomposite beads (2018) <i>New Polymer Nanocomposites for Environmental Remediation</i> , pp. 47-76
280	Silva, M., Alves, N.M., Paiva, M.C., Graphene-polymer nanocomposites for biomedical applications (2018) <i>Polymers for Advanced Technologies</i> , 29 (2), pp. 687-700
281	Wu, Y., Ji, H., Yang, F., Meng, Y., Wang, Y., Dai, J., Ren, H., Tan, G., Xiao, D., Functional reduced graphene oxide-based membranes with selective ion transport channels for zwitterionic ions separation based on the pH gradient (2018) <i>Nanoscale</i> , 10 (3), pp. 1119-1128

282	Su, C., Feng, Y., Ye, J., Zhang, Y., Gao, Z., Zhao, M., Yang, N., Nishinari, K., Fang, Y., Effect of sodium alginate on the stability of natural soybean oil body emulsions (2018) RSC Advances, 8 (9), pp. 4731-4741
283	Shaari, N., Kamarudin, S.K., Basri, S., Shyuan, L.K., Masdar, M.S., Nordin, D., Enhanced Proton Conductivity and Methanol Permeability Reduction via Sodium Alginate Electrolyte-Sulfonated Graphene Oxide Bio-membrane (2018) Nanoscale Research Letters, 13, art. no. 82
284	Rajesh, R., Kumar, S.K.A., Kenie, D.N., Ravichandran, Y.D., Development of porous polysaccharides-hydroxyapatite composite scaffolds via freeze drying method and in vitro osteoconductivity on MG 63 Cells (2018) Asian Journal of Chemistry, 30 (2), pp. 443-450
285	Shin, Y.C., Song, S.-J., Hong, S.W., Oh, J.-W., Hwang, Y.-S., Choi, Y.S., Han, D.-W., Graphene-functionalized biomimetic scaffolds for tissue regeneration (2018) Advances in Experimental Medicine and Biology, 1064, pp. 73-89.
286	Furuyama Lima, A.M., De Freitas Lima, M., Garrido Assis, O.B., Raabe, A., Amoroso, H.C., De Oliveira Tiera, V.A., De Andrade, M.B., José Tiera, M., Synthesis and physicochemical characterization of multiwalled carbon nanotubes/hydroxamic alginate nanocomposite scaffolds (2018) Journal of Nanomaterials, 2018, art. no. 4218270
287	Aqlil, M., MoussembaNzenguet, A., Essamlali, Y., Snik, A., Larzek, M., Zahouily, M., Graphene Oxide Filled Lignin/Starch Polymer Bionanocomposite: Structural, Physical, and Mechanical Studies (2017) Journal of Agricultural and Food Chemistry, 65 (48), pp. 10571-10581
288	Serrano-Aroca, Á., Ruiz-Pividal, J.-F., Llorens-Gámez, M., Enhancement of water diffusion and compression performance of crosslinked alginate films with a minuscule amount of graphene oxide (2017) Scientific Reports, 7 (1), art. no. 11684
289	Chen, M., Wu, P., Chen, L., Yang, S., Yu, L., Ding, Y., Zhu, N., Shi, Z., Liu, Z., Three-Dimensional Multi-Doped Porous Carbon/Graphene Derived from Sewage Sludge with Template-Assisted Fe-pillared Montmorillonite for Enhanced Oxygen Reduction Reaction (2017) Scientific Reports, 7 (1), art. no. 4158
290	Ege, D., Kamali, A.R., Boccaccini, A.R., Graphene Oxide/Polymer-Based Biomaterials (2017) Advanced Engineering Materials, 19 (12), art. no. 1700627
291	Das, D., Bang, S., Zhang, S., Noh, I., Bioactive molecules release and cellular responses of alginate-tricalcium phosphate particles hybrid gel (2017) Nanomaterials, 7 (11), art. no. 389
292	Saharudin, S.H., Shariffuddin, J.H., Nordin, N.I.A.A, Biocomposites from (Anadaragranosa) shells waste for bone material applications (2017) IOP Conference Series: Materials Science and Engineering, 257 (1), art. no. 012061
293	Thomas, M., Sheikh, M.U.D., Ahirwar, D., Bano, M., Khan, F, Gold nanoparticle and graphene oxide incorporated strontium crosslinked alginate/carboxymethyl cellulose composites for o-nitroaniline reduction and Suzuki-Miyaura cross-coupling reactions (2017) Journal of Colloid and Interface Science, 505, pp. 115-129
294	Tang, Q., Pan, D., Sun, Y., Cao, J., Guo, Y., Preparation, Characterization and Antimicrobial Activity of Sodium Alginate Nanobiocomposite Films Incorporated with E-Polylysine and Cellulose Nanocrystals (2017) Journal of Food Processing and Preservation, 41 (5), art. no. e13120
295	Liu, S., Li, L., Effect of functionalized graphene oxide on gelation and scaling law of alginate in aqueous solution (2017) European Polymer Journal, 95, pp. 462-473
296	Serrano-Aroca, Á., Deb, S., Synthesis of irregular graphene oxide tubes using green chemistry and their potential use as reinforcement materials for biomedical applications (2017) PLoS ONE, 12 (9), art. no. e0185235
297	Ioniță, M., Vlăsceanu, G.M., Watzlawek, A.A., Voicu, S.I., Burns, J.S., Iovu, H., Graphene and functionalized graphene: Extraordinary prospects for nanobiocomposite materials (2017) Composites Part B: Engineering, 121, pp. 34-57
298	Zia, F., Sobhani, H., Mohammadi, M., Athar, M., Afzal, M., Sultana, T., Shchipunov, Y., Alginate-Based Hybrid Nanocomposite Materials (2017) Algae Based Polymers, Blends, and Composites: Chemistry, Biotechnology and Materials Science, pp. 603-648
299	Liu, S., Ling, J., Li, K., Yao, F., Oderinde, O., Zhang, Z., Fu, G., Bio-inspired and lanthanide-induced hierarchical sodium alginate/graphene oxide composite paper with enhanced physicochemical properties (2017) Composites Science and Technology, 145, pp. 62-70
300	Pei, B., Wang, W., Li, X, Scaffolds reinforced by fibers or tubes for soft tissue repair (2017) Tissue Repair: Reinforced Scaffolds, pp. 261-304
301	Cheng, Z.-L., Qin, X.-X., Liu, Z., Qin, D.-Z, Electrospinning preparation and mechanical properties of PVA/HNTs composite nanofibers (2017) Polymers for Advanced Technologies, 28 (6), pp. 768-774
302	Raafat, A.I., Ali, A.E.-H, pH-controlled drug release of radiation synthesized graphene oxide/(acrylic acid-co-sodium alginate) interpenetrating network (2017) Polymer Bulletin, 74 (6), pp. 2045-2062

303	Yadav, I., Rathnam, V.S.S., Yogalakshmi, Y., Chakraborty, S., Banerjee, I., Anis, A., Pal, K., Synthesis and characterization of polyvinyl alcohol- carboxymethyl tamarind gum based composite films (2017) <i>Carbohydrate Polymers</i> , 165, pp. 159-168
304	Rajesh, R., Dominic Ravichandran, Y., Kuo, Y.-C, Alginate in Bone Tissue Engineering (2017) <i>Seaweed Polysaccharides: Isolation, Biological and Biomedical Applications</i> , pp. 349-368
305	Buk, V., Emregul, E., Emregul, K.C, Alginate copper oxide nano-biocomposite as a novel material for amperometric glucose biosensing (2017) <i>Materials Science and Engineering C</i> , 74, pp. 307-314
306	Marrella, A., Lagazzo, A., Barberis, F., Catelani, T., Quarto, R., Scaglione, S, Enhanced mechanical performances and bioactivity of cell laden-graphene oxide/alginate hydrogels open new scenario for articular tissue engineering applications (2017) <i>Carbon</i> , 115, pp. 608-616
307	Liu, S., Li, Y., Li, L., Enhanced stability and mechanical strength of sodium alginate composite films (2017) <i>Carbohydrate Polymers</i> , 160, pp. 62-70
308	Hamley, I.W., Castelletto, V., Self-Assembly of Peptide Bioconjugates: Selected Recent Research Highlights (2017) <i>Bioconjugate Chemistry</i> , 28 (3), pp. 731-739.
309	RajanUnnithan, A., Ramachandra KurupSasikala, A., Park, C.H., Kim, C.S., A unique scaffold for bone tissue engineering: An osteogenic combination of graphene oxide–hyaluronic acid–chitosan with simvastatin (2017) <i>Journal of Industrial and Engineering Chemistry</i> , 46, pp. 182-191
310	Cheng, C., Li, S., Thomas, A., Kotov, N.A., Haag, R, Functional Graphene Nanomaterials Based Architectures: Biointeractions, Fabrications, and Emerging Biological Applications (2017) <i>Chemical Reviews</i> , 117 (3), pp. 1826-1914
311	Shaari, N., Kamarudin, S.K., Characterization studies of sodium alginate/sulfonated graphene oxide based polymer electrolyte membrane for direct methanol fuel cell [Kajian pencirianbagimembranelektrolitpolimerberasaskan sodium alginat/sulfonatgrafinoksidauntukselbahanapimetanollangsung] (2017) <i>Malaysian Journal of Analytical Sciences</i> , 21 (1), pp. 113-118
312	Li, C., Yan, S., Yang, Y., Li, S., Yu, B, Preparation and properties of graphene oxide/furan resin composites (2017) <i>FuheCailiaoXuebao/Acta MateriaeCompositaeSinica</i> , 34 (2), pp. 278-283
313	Luo, H., Zuo, G., Xiong, G., Li, C., Wu, C., Wan, Y., Porous nanoplate-like hydroxyapatite–sodium alginate nanocomposite scaffolds for potential bone tissue engineering (2017) <i>Materials Technology</i> , 32 (2), pp. 78-84
314	Qi, Y., Yang, M., Xu, W., He, S., Men, Y., Natural polysaccharides-modified graphene oxide for adsorption of organic dyes from aqueous solutions (2017) <i>Journal of Colloid and Interface Science</i> , 486, pp. 84-96
315	Castelletto, V., Kaur, A., Hamley, I.W., Barnes, R.H., Karatzas, K.-A., Hermida-Merino, D., Swioklo, S., Connon, C.J., Stasiak, J., Reza, M., Ruokolainen, J, Hybrid membrane biomaterials from self-assembly in polysaccharide and peptide amphiphile mixtures: controllable structural and mechanical properties and antimicrobial activity (2017) <i>RSC Advances</i> , 7 (14), pp. 8366-8375
316	Qiao, X., Niu, L., Zhang, H., Wen, X., Cao, Y., Bai, G., Controllable fabrication of a novel porous Ni-alginate hybrid material for hydrogenation (2017) <i>Applied Catalysis B: Environmental</i> , 218, pp. 721-730
317	Feng, B., Xu, K., Huang, A., Synthesis of graphene oxide/polyimide mixed matrix membranes for desalination (2017) <i>RSC Advances</i> , 7 (4), pp. 2211-2217
318	Huang, B., Liu, M., Long, Z., Shen, Y., Zhou, C., Effects of halloysite nanotubes on physical properties and cytocompatibility of alginate composite hydrogels (2017) <i>Materials Science and Engineering C</i> , 70 (Part 2), pp. 303-310.
319	Kumar, A., Rao, K.M., Han, S.S, Synthesis of mechanically stiff and bioactive hybrid hydrogels for bone tissue engineering applications (2017) <i>Chemical Engineering Journal</i> , 317, pp. 119-131
320	Silva, M., Caridade, S.G., Vale, A.C., Cunha, E., Sousa, M.P., Mano, J.F., Paiva, M.C., Alves, N.M, Biomedical films of graphene nanoribbons and nanoflakes with natural polymers (2017) <i>RSC Advances</i> , 7 (44), pp. 27578-27594
321	Muthumeenal, A., Sundar Pethaiah, S., Nagendran, A., <i>Biopolymer Composites in Fuel Cells</i> (2017) <i>Biopolymer Composites in Electronics</i> , pp. 185-217
322	Zhiyu, Z., Kecen, X., Yu, C, Preparation and application of the composite from alginate (2017) <i>Handbook of Composites from Renewable Materials</i> , 1-8, pp. 341-375
323	Sheela, T., Bhajantri, R.F., Nambissan, P.M.G., Ravindrachary, V., Lobo, B., Naik, J., Rathod, S.G., Ionic conductivity and free volume related microstructural properties of LiClO <sub>4</sub> /PVA/NaAlg polymer composites: Positron annihilation spectroscopic studies (2016) <i>Journal of Non-Crystalline Solids</i> , 454, pp. 19-30
324	Li, J., He, J., <i>Alginate-based Films and Membranes: Preparation, Characterization and Applications, Nanostructured Polymer Membranes</i> , 1, 2016, 457-489

325	Fan, L., Ge, H., Zou, S., Xiao, Y., Wen, H., Li, Y., Feng, H., Nie, M., Sodium alginate conjugated graphene oxide as a new carrier for drug delivery system (2016) <i>International Journal of Biological Macromolecules</i> , 93, pp. 582-590
326	Rouf, T.B., Kokini, J.L., Biodegradable biopolymer-graphene nanocomposites (2016) <i>Journal of Materials Science</i> , 51 (22), pp. 9915-9945
327	Vilcinskas, K., Zlopasa, J., Jansen, K.M.B., Mulder, F.M., Picken, S.J., Koper, G.J.M., Water Sorption and Diffusion in (Reduced) Graphene Oxide-Alginate Biopolymer Nanocomposites (2016) <i>Macromolecular Materials and Engineering</i> , 301 (9), pp. 1049-1063
328	Bayrak, O., Ionita, M., Demirci, E., Silberschmidt, V.V., Optical properties of graphene-based materials in transparent polymer matrices (2016) <i>Applied Physics Letters</i> , 109 (8), art. no. 081905
329	Aadil, K.R., Jha, H., Physico-chemical properties of lignin-alginate based films in the presence of different plasticizers (2016) <i>Iranian Polymer Journal (English Edition)</i> , 25 (8), pp. 661-670
330	Sharma, S., Kothiyal, N.C., Comparative effects of pristine and ball-milled graphene oxide on physico-chemical characteristics of cement mortar nanocomposites (2016) <i>Construction and Building Materials</i> , 115, pp. 256-268
331	Chen, X., Fang, F., Du, T., Zhang, X., Ding, X., Tian, X., Preparation and properties of chitosan-potassium alginate flame retardant coating via layer-by-layer self-assembly technology (2016) <i>GaofenziCailiaoKexue Yu Gongcheng/Polymeric Materials Science and Engineering</i> , 32 (7), pp. 121-124
332	Hu, X., Zhang, X., Tian, M., Qu, L., Zhu, S., Han, G., Robust ultraviolet shielding and enhanced mechanical properties of graphene oxide/sodium alginate composite films (2016) <i>Journal of Composite Materials</i> , 50 (17), pp. 2365-2374
333	Jalaja, K., Sreehari, V.S., Kumar, P.R.A., Nirmala, R.J., Graphene oxide decorated electrospun gelatin nanofibers: Fabrication, properties and applications (2016) <i>Materials Science and Engineering C</i> , 64, pp. 11-19
334	Wu, S., Shi, T., Zhang, L., Preparation and properties of amine-functionalized reduced graphene oxide/waterborne polyurethane nanocomposites (2016) <i>High Performance Polymers</i> , 28 (4), pp. 453-465
335	Chen, K., Tang, X., Yue, Y., Zhao, H., Guo, L., Strong and Tough Layered Nanocomposites with Buried Interfaces (2016) <i>ACS Nano</i> , 10 (4), pp. 4816-4827
336	Nie, J.-J., Zhao, W., Hu, H., Yu, B., Xu, F.-J., Controllable Heparin-Based Comb Copolymers and Their Self-assembled Nanoparticles for Gene Delivery (2016) <i>ACS Applied Materials and Interfaces</i> , 8 (13), pp. 8376-8385
337	Bayrak, O., Ionita, M., Demirci, E., Silberschmidt, V.V. Effect of morphological state of graphene on mechanical properties of nanocomposites (2016) <i>Journal of Materials Science</i> , 51 (8), pp. 4037-4046
338	Liu, D., Jia, Z., Wang, D., Preparation of hierarchically porous carbon nanosheet composites with graphene conductive scaffolds for supercapacitors: An electrostatic-assistant fabrication strategy (2016) <i>Carbon</i> , 100, pp. 664-677
339	Ebrahimzadeh, S., Ghanbarzadeh, B., Hamishehkar, H., Physical properties of carboxymethyl cellulose based nanobiocomposites with Graphene nano-platelets (2016) <i>International Journal of Biological Macromolecules</i> , 84, pp. 16-23
340	Yan, H., Chen, X., Li, J., Feng, Y., Shi, Z., Wang, X., Lin, Q., Synthesis of alginate derivative via the Ugi reaction and its characterization (2016) <i>Carbohydrate Polymers</i> , 136, art. no. 10406, pp. 757-763
341	Li, H., Liu, S., Li, L., Rheological study on 3D printability of alginate hydrogel and effect of graphene oxide (2016) <i>International Journal of Bioprinting</i> , 2 (2), pp. 54-66
342	Chen, X., Fang, F., Zhang, X., Ding, X., Wang, Y., Chen, L., Tian, X., Flame-retardant, electrically conductive and antimicrobial multifunctional coating on cotton fabric via layer-by-layer assembly technique (2016) <i>RSC Advances</i> , 6 (33), pp. 27669-27676
343	Li, C., Li, S., Yan, S., Facile and green preparation of biobased graphene oxide/furan resin nanocomposites with enhanced thermal and mechanical properties (2016) <i>RSC Advances</i> , 6 (67), pp. 62572-62578
344	Li, S., Yan, S., Rapid synthesis of macroporous graphene oxide/poly(acrylic acid-co-acrylamide) nanocomposite hydrogels with pH-sensitive behavior by frontal polymerization (2016) <i>RSC Advances</i> , 6 (40), pp. 33426-33432.
345	Liu, S., Ling, J., Li, K., Yao, F., Oderinde, O., Zhang, Z., Fu, G., Hierarchical alginate biopolymer papers produced: Via lanthanide ion coordination (2016) <i>RSC Advances</i> , 6 (68), pp. 63171-63177
346	Zhuang, Y., Yu, F., Chen, H., Zheng, J., Ma, J., Chen, J., Alginate/graphene double-network nanocomposite hydrogel beads with low-swelling, enhanced mechanical properties, and enhanced adsorption capacity (2016) <i>Journal of Materials Chemistry A</i> , 4 (28), pp. 10885-10892
347	Baldino, L., Concilio, S., Cardea, S., Reverchon, E., Interpenetration of natural polymer aerogels by supercritical drying (2016) <i>Polymers</i> , 8 (4), art. no. 106

348	El Achaby, M., El Miri, N., Snik, A., Zahouily, M., Abdelouahdi, K., Fihri, A., Barakat, A., Solhy, A., Mechanically strong nanocomposite films based on highly filled carboxymethyl cellulose with graphene oxide (2016) <i>Journal of Applied Polymer Science</i> , 133 (2), art. no. 42356
349	Moura, D., Caridade, S.G., Sousa, M.P., Cunha, E., Rocha, H.C., Mano, J.F., Paiva, M.C., Alves, N.M., High performance free-standing films by layer-by-layer assembly of graphene flakes and ribbons with natural polymers (2016) <i>Journal of Materials Chemistry B</i> , 4 (47), pp. 7718-7730
350	Gan, S., Zakaria, S., Chia, C.H., Chen, R.S., Jeyalaldeen, N., Physico-mechanical properties of a microwave-irradiated kenaf carbamate/graphene oxide membrane (2015) <i>Cellulose</i> , 22 (6), pp. 3851-3863
351	Hu, Y., Chen, T., Dong, X., Mei, Z., Preparation and characterization of composite hydrogel beads based on sodium alginate (2015) <i>Polymer Bulletin</i> , 72 (11), pp. 2857-2869
352	Vilcinskas, K., Norder, B., Goubitz, K., Mulder, F.M., Koper, G.J.M., Picken, S.J., Tunable Order in Alginate/Graphene Biopolymer Nanocomposites (2015) <i>Macromolecules</i> , 48 (22), pp. 8323-8330.
353	Grkovic, M., Stojanovic, D.B., Kojovic, A., Strnad, S., Kreze, T., Aleksic, R., Uskokovic, P.S., Keratin-polyethylene oxide bio-nanocomposites reinforced with ultrasonically functionalized graphene (2015) <i>RSC Advances</i> , 5 (111), pp. 91280-91287
354	De'Nobili, M.D., Curto, L.M., Delfino, J.M., Pérez, C.D., Bernhardt, D., Gerschenson, L.N., Fissore, E.N., Rojas, A.M., Alginate utility in edible and non edible film development and the influence of its macromolecular structure in the antioxidant activity of a pharmaceutical/food interface (2015) <i>Alginate: Chemical Structure, Uses and Health Benefits</i> , pp. 119-169
355	Thomas, M., Naikoo, G.A., Sheikh, M.U.D., Bano, M., Khan, F., Fabrication of hierarchically organized nanocomposites of Ba/alginate/carboxymethylcellulose/graphene oxide/Au nanoparticles and their catalytic efficiency in o-nitroaniline reduction (2015) <i>New Journal of Chemistry</i> , 39 (12), pp. 9761-9771
356	Xiong, G., Luo, H., Zuo, G., Ren, K., Wan, Y., Novel porous graphene oxide and hydroxyapatite nanosheets-reinforced sodium alginate hybrid nanocomposites for medical applications (2015) <i>Materials Characterization</i> , 107, pp. 419-425
357	Shaari, N., Kamarudin, S.K., Chitosan and alginate types of bio-membrane in fuel cell application: An overview (2015) <i>Journal of Power Sources</i> , 289, art. no. 21003, pp. 71-80
358	Baldino, L., Sarno, M., Cardea, S., Irusta, S., Ciambelli, P., Santamaria, J., Reverchon, E., Formation of cellulose acetate-graphene oxide nanocomposites by supercritical CO <sub>2</sub> assisted phase inversion (2015) <i>Industrial and Engineering Chemistry Research</i> , 54 (33), pp. 8147-8156
359	Chen, K., Shi, B., Yue, Y., Qi, J., Guo, L., Binary Synergy Strengthening and Toughening of Bio-Inspired Nacre-like Graphene Oxide/Sodium Alginate Composite Paper (2015) <i>ACS Nano</i> , 9 (8), pp. 8165-8175
360	Unalan, I.U., Wan, C., Figiel, L.F., Olsson, R.T., Trabattoni, S., Farris, S., Exceptional oxygen barrier performance of pullulan nanocomposites with ultra-low loading of graphene oxide (2015) <i>Nanotechnology</i> , 26 (27), art. no. 275703
361	Tungkavet, T., Seetapan, N., Pattavarakorn, D., Sirivat, A., Graphene/gelatin hydrogel composites with high storage modulus sensitivity for using as electroactive actuator: Effects of surface area and electric field strength (2015) <i>Polymer</i> , 70, pp. 242-251
362	Cai, N., Dai, Q., Wang, Z., Luo, X., Xue, Y., Yu, F., Toughening of electrospun poly(l-lactic acid) nanofiber scaffolds with unidirectionally aligned halloysite nanotubes (2015) <i>Journal of Materials Science</i> , 50 (3), pp. 1435-1445
363	Liu, L., Shi, Y., Yu, B., Tai, Q., Wang, B., Feng, X., Liu, H., Wen, P., Yuan, B., Hu, Y., Preparation of layered graphitic carbon nitride/montmorillonite nanohybrids for improving thermal stability of sodium alginate nanocomposites (2015) <i>RSC Advances</i> , 5 (16), pp. 11761-11765
364	Garea, S.A., Mihai, A.I., Ghebaour, A., Hybrid films based on sodium alginate and porous clay heterostructures (2015) <i>Materiale Plastice</i> , 52 (3), pp. 275-280
365	Valentini, L., Rescignano, N., Puglia, D., Cardinali, M., Kenny, J., Preparation of Alginate/Graphene oxide hybrid films and their integration in triboelectric generators (2015) <i>European Journal of Inorganic Chemistry</i> , 2015 (7), pp. 1192-1197
366	Sharma, S., Kothiyal, N.C., Influence of graphene oxide as dispersed phase in cement mortar matrix in defining the crystal patterns of cement hydrates and its effect on mechanical, microstructural and crystallization properties (2015) <i>RSC Advances</i> , 5 (65), pp. 52642-52657
367	Wang, D., Zhang, F., Tang, J., Sodium alginate decorated carbon nanotubes-graphene composite aerogel for heavy metal ions detection (2015) <i>Electrochemistry</i> , 83 (2), pp. 84-90
368	Ahmad, R., Mirza, A., Sequestration of heavy metal ions by Methionine modified bentonite/Alginate (Meth-bent/Alg): A bionanocomposite (2015) <i>Groundwater for Sustainable Development</i> , 1 (1-2), pp. 50-58

369	Rajesh, R., Ravichandran, Y.D, Development of new graphene oxide incorporated tricomponent scaffolds with polysaccharides and hydroxyapatite and study of their osteoconductivity on MG-63 cell line for bone tissue engineering (2015) RSC Advances, 5 (51), pp. 41135-41143
370	Faturechi, R., Karimi, A., Hashemi, A., Yousefi, H., Navidbakhsh, M., Influence of Poly(acrylic acid) on the mechanical properties of composite hydrogels (2015) Advances in Polymer Technology, 34 (2), art. no. 21487
371	Terzopoulou, Z., Kyzas, G.Z., Bikiaris, D.N., Recent advances in nanocomposite materials of graphene derivatives with polysaccharides (2015) Materials, 8 (2), pp. 652-683
372	Venkatesan, J., Bhatnagar, I., Manivasagan, P., Kang, K.-H., Kim, S.-K., Alginate composites for bone tissue engineering: A review (2015) International Journal of Biological Macromolecules, 72, pp. 269-281
373	Noh, S.H., Tung, V.C., Han, T.H., Cruz-Silva, R., Novel hybridization approaches for graphene-based nanocomposites (2015) Science of Advanced Materials, 7 (10), pp. 1962-1978
374	Cao, K., Jiang, Z., Zhao, J., Zhao, C., Gao, C., Pan, F., Wang, B., Cao, X., Yang, J., Enhanced water permeation through sodium alginate membranes by incorporating graphene oxides (2014) Journal of Membrane Science, 469, pp. 272-283
375	Liu, C.-Y., Gao, X.-P., Wang, X., Li, D., Tang, K.-Y., Preparation and properties of pH-sensitive SA/GO composite hydrogel beads (2014) GongnengCailiao/Journal of Functional Materials, 45 (13), pp. 13062-13066
376	Chen, Q., Cabanas-Polo, S., Goudouri, O.-M., Boccaccini, A.R., Electrophoretic co-deposition of polyvinyl alcohol (PVA) reinforced alginate-Bioglass® composite coating on stainless steel: Mechanical properties and in-vitro bioactivity assessment (2014) Materials Science and Engineering C, 40, pp. 55-64.
378	Karimi, A., Navidbakhsh, M., Measurement of the nonlinear mechanical properties of a poly(vinyl alcohol) sponge under longitudinal and circumferential loading (2014) Journal of Applied Polymer Science, 131 (10), art. no. 40257
379	Badiger, H., Shukla, S., Kalyani, S., Sridhar, S., hin film composite sodium alginate membranes for dehydration of acetic acid and isobutanol (2014) Journal of Applied Polymer Science, 131 (6), art. no. 40018
380	Karimi, A., Navidbakhsh, M., Mechanical properties of PVA material for tissue engineering applications (2014) Materials Technology, 29 (2), pp. 90-100
381	Kuila, S.B., Ray, S.K., Separation of benzene-cyclohexane mixtures by filled blend membranes of carboxymethyl cellulose and sodium alginate (2014) Separation and Purification Technology, 123, pp. 45-52
382	Shi, Y., Jiang, S., Zhou, K., Bao, C., Yu, B., Qian, X., Wang, B., Hong, N., Wen, P., Gui, Z., Hu, Y., Yuen, R.K.K., Influence of g-C3N4 nanosheets on thermal stability and mechanical properties of biopolymer electrolyte nanocomposite films: A novel investigation (2014) ACS Applied Materials and Interfaces, 6 (1), pp. 429-437
383	Wan, Y., Chen, X., Xiong, G., Guo, R., Luo, H., Synthesis and characterization of three-dimensional porous graphene oxide/sodium alginate scaffolds with enhanced mechanical properties, (2014) Materials Express, 4 (5), pp. 429-434
384	Ghosh, T.K., Gope, S., Mondal, D., Bhowmik, B., Mollick, M.M.R., Maity, D., Roy, I., Sarkar, G., Sadhukhan, S., Rana, D., Chakraborty, M., Chattopadhyay, D, Assessment of morphology and property of graphene oxide-hydroxypropylmethylcellulose nanocomposite films (2014) International Journal of Biological Macromolecules, 66, pp. 338-345.
385	Wang, L., Lu, C., Zhang, B., Zhao, B., Wu, F., Guan, S., Fabrication and characterization of flexible silk fibroin films reinforced with graphene oxide for biomedical applications(2014) RSC Advances, 4 (76), pp. 40312-40320
386	Kuila, S.B., Ray, S.K., Dehydration of dioxane by pervaporation using filled blend membranes of polyvinyl alcohol and sodium alginate (2014) Carbohydrate Polymers, 101 (1), pp. 1154-1165
387	Karimi, A., Navidbakhsh, M., Faghihi, S. Fabrication and mechanical characterization of a polyvinyl alcohol sponge for tissue engineering applications (2014) Perfusion (United Kingdom), 29 (3), pp. 231-237
388	Karimi, A., Navidbakhsh, M., Faghihi, S., Measurement of the mechanical failure of polyvinyl alcohol sponge using biaxial puncture test (2014) Journal of Biomaterials and Tissue Engineering, 4 (1), pp. 46-50
389	Maheshkumar, K.V., Krishnamurthy, K., Sathishkumar, P., Sahoo, S., Uddin, E., Pal, S.K., Rajasekar, R., Research updates on graphene oxide-based polymeric nanocomposites (2014) Polymer Composites, 35 (12), pp. 2297-2310
390	Guo, Y., Duan, B., Zhou, J., Zhu, P., Chitin/graphene oxide composite films with enhanced mechanical properties prepared in NaOH/urea aqueous solution (2014) Cellulose, 21 (3), pp. 1781-1791
391	Karimi, A., Navidbakhsh, M., Material properties in unconfined compression of gelatin hydrogel for skin tissue engineering applications (2014) Biomedizinische Technik, 59 (6), pp. 479-486
392	Karimi, A., Navidbakhsh, M., Beigzadeh, B., A visco-hyperelastic constitutive approach for modeling polyvinyl alcohol sponge(2014) Tissue and Cell, 46 (1), pp. 97-102

393	Wu, S., Liu, X., Yeung, K.W.K., Liu, C., Yang, X., Biomimetic porous scaffolds for bone tissue engineering (2014) <i>Materials Science and Engineering R: Reports</i> , 80 (1), pp. 1-36
<b>Damian C.M., Pandele A.M., Iovu H., Ethylenediamine functionalization effect on the thermo-mechanical properties of epoxy nanocomposites reinforced with multiwall carbon nanotubes, <i>UPB Scientific Bulletin, Series B: Chemistry and Materials Science</i>, 2010, 72(3), 163 - 174</b>	
1.	Kazemi Esfeh T., Arefinia R., Moini Jazani O., Fallahi M., A novel epoxy adhesive with ground rubber tire powder and carboxylated multiwalled carbon nanotubes, <i>Polymer Composites</i> , 2023, 44(12), 8353-8365
2.	Mahmoudian M., Khazani Y., Gozali Balkanloo P., Enayati M., Poly(diallyldimethylammonium chloride)-grafted carboxylated-MWCNT as an additive in the polyethersulfone membrane, <i>Polymer Bulletin</i> , 2021, 78(8), 4313-4332
3.	Jamshidian M., Sadeghalvad B., Ghasemi I., Ebrahimi H., Rezaeian I., Fabrication of Polyethersulfone/Functionalized MWCNTs Nanocomposite and Investigation its Efficiency as an Adsorbent of Pb(II) Ions, <i>Arabian Journal for Science and Engineering</i> , 2021, 46(7), 6259-6273
4.	Aliahmad, N., Biswas, P.K., Wable, V., Hernandez, I., Siegel, A., Dalir, H., Agarwal, M., Electrospun Thermosetting Carbon Nanotube-Epoxy Nanofibers (2021) <i>ACS Applied Polymer Materials</i> , 3 (2), pp. 610-619
5.	Karami, H., Papari-Zare, S., Shanbedi, M., Eshghi, H., Dashtbozorg, A., Akbari, A., Mohammadian, E., Heidari, M., Sahin, A.Z., Teng, C.B, he thermophysical properties and the stability of nanofluids containing carboxyl-functionalized graphene nano-platelets and multi-walled carbon nanotubes (2019) <i>International Communications in Heat and Mass Transfer</i> , 108, art. no. 104302
6.	Montanheiro, T.L.A., de Menezes, B.R.C., Ribas, R.G., Montagna, L.S., Campos, T.M.B., Schatkoski, V.M., Righetti, V.A.N., Passador, F.R., Thim, G.P, Covalently $\gamma$ -aminobutyric acid-functionalized carbon nanotubes: improved compatibility with PHBV matrix (2019) <i>SN Applied Sciences</i> , 1 (10), art. no. 1177
7.	Kang, Z., Zhang, Y., Zhou, M, AgNPs@CNTs/Ag hybrid films on thiolated PET substrate for flexible electronics (2019) <i>Chemical Engineering Journal</i> , 368, pp. 223-234
8.	Rahimi, K., Riahi, S., Abbasi, M., Fakhroueian, Z., Modification of multi-walled carbon nanotubes by 1,3-diaminopropane to increase CO <sub>2</sub> adsorption capacity (2019) <i>Journal of Environmental Management</i> , 242, pp. 81-89
9.	Ehsan Moaseri, Bazubandi, B., Karimi, M., Maghrebi, M., Baniadam, M., Mechanical Improvements of Multi-Walled Carbon Nanotube-Epoxy Composite: Covalent Functionalization of Multi-Walled Carbon Nanotube by Epoxy Chains (2019) <i>Polymer Science - Series B</i> , 61 (3), pp. 341-348
10.	Amaral Montanheiro, T.L., Montagna, L.S., Machado, J.P.B., Lemes, A.P, Covalent functionalization of MWCNT with PHBV chains: Evaluation of the functionalization and production of nanocomposites (2019) <i>Polymer Composites</i> , 40 (1), pp. 288-295
11.	Gao, W., Guo, J., Xiong, J., Smith, A.T., Sun, L, Improving thermal, electrical and mechanical properties of fluoroelastomer/amino-functionalized multi-walled carbon nanotube composites by constructing dual crosslinking networks (2018) <i>Composites Science and Technology</i> , 162, pp. 49-57
12.	Obeid, A., Al-Shuja'a, O., El-Shekeil, Y., Aqeel, S., Salit, M.S., Al-Washali, Z., New strategy for chemically attachment of amide group on multi-walled carbon Nanotubes surfaces: Synthesis, characterization and study of DC electrical conductivity (2018) <i>Current Chemistry Letters</i> , 7 (1), pp. 17-26
13.	Moaseri, E., Bazubandi, B., Karimi, M., Baniadam, M., Maghrebi, M., Fabrication of robust multiwalled carbon nanotube buckypapers through crosslinking reaction of epoxy chains with its curing agent (2017) <i>Polymer Composites</i> , 38 (12), pp. 2727-2733
14.	Mallakpour, S., Behranvand, V., Sono-assisted preparation of bio-nanocomposite for removal of Pb <sup>2+</sup> ions: Study of morphology, thermal and wettability properties (2017) <i>Ultrasonics Sonochemistry</i> , 39, pp. 872-882
15.	Karami, P., Shojaei, A., Morphological and mechanical properties of polyamide 6/nanodiamond composites prepared by melt mixing: effect of surface functionality of nanodiamond (2017) <i>Polymer International</i> , 66 (4), pp. 557-565
16.	Vijila, J.J.J., Mohanraj, K., Henry, J., Sivakumar, G., Microwave-assisted Bi <sub>2</sub> Se <sub>3</sub> nanoparticles using various organic solvents (2016) <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 153, pp. 457-464
17.	Lemes, A.P., Montanheiro, T.L.A., Passador, F.R., Durán, N., Nanocomposites of polyhydroxyalkanoates reinforced with carbon nanotubes: Chemical and biological properties (2015) <i>Advanced Structured Materials</i> , 75, pp. 79-108
18.	Lee, M.-S., Lee, S.-Y., Park, S.-J, Preparation and characterization of multi-walled carbon nanotubes impregnated with polyethyleneimine for carbon dioxide capture (2015) <i>International Journal of Hydrogen Energy</i> , 40 (8), pp. 3415-3421
19.	Patole, A., Lubineau, G, Carbon nanotubes with silver nanoparticle decoration and conductive polymer coating for improving the electrical conductivity of polycarbonate composites (2015) <i>Carbon</i> , 81 (1), pp. 720-730

20.	Benlikaya, R., Slobodian, P., Riha, P., Olejnik, R., The enhanced alcohol sensing response of multiwalled carbon nanotube networks induced by alkyl diamine treatment (2014) <i>Sensors and Actuators, B: Chemical</i> , 201, pp. 122-130
21.	Do Amaral Montanheiroa, T.L., Cristóvan, F.H., Machado, J.P.B., Tada, D.B., Durán, N., Lemes, A.P., Effect of MWCNT functionalization on thermal and electrical properties of PHBV/MWCNT nanocomposites (2014) <i>Journal of Materials Research</i> , 760
22.	Amaranatha Reddy, D., Kim, D.H., Rhee, S.J., Jung, C.U., Lee, B.W., Liu, C., Hydrothermal synthesis of wurtzite Zn <sub>1-x</sub> Ni <sub>x</sub> S mesoporous nanospheres: With blue-green emissions and ferromagnetic Curie point above room temperature (2014) <i>Journal of Alloys and Compounds</i> , 588, pp. 596-604
23.	Duma, A., Prodana, M., Demetrescu, I., Cisplatin functionalization of multiwall carbon nanotubes (2014) <i>UPB Scientific Bulletin, Series B: Chemistry and Materials Science</i> , 76 (1), pp. 49-58
24.	Montanheiro, T.L.D.A., Cristóvan, F.H., Machado, J.P.B., Tada, D.B., Durán, N., Lemes, A.P., Effect of MWCNT functionalization on thermal and electrical properties of PHBV/MWCNT nanocomposites (2014) <i>Journal of Materials Research</i> , 30 (1), pp. 55-65
25.	Zaharia, C., Tudora, M.-R., Damian, C.M., Vasile, E., Stanescu, P.O., Silk fibroin and functionalized multiwall carbon nanotubes hydrogels and their biomineralization potential (2013) <i>MaterialePlastice</i> , 50 (3), pp. 159-162
26.	Osipov, N.N., Klyuev, M.V, Hydrogenation of unsaturated compounds in the presence of palladium-containing modified carbon nanofibers (2013) <i>Russian Journal of General Chemistry</i> , 83 (5), pp. 928-931
27.	Gui, M.M., Yap, Y.X., Chai, S.-P., Mohamed, A.R., Multi-walled carbon nanotubes modified with (3-aminopropyl)triethoxysilane for effective carbon dioxide adsorption (2013) <i>International Journal of Greenhouse Gas Control</i> , 14, pp. 65-73
28.	Gromov, A.V., Gray, N., Szilágyi, P.Á., Campbell, E.E.B., Direct grafting of carbon nanotubes with ethylenediamine (2012) <i>Journal of Materials Chemistry</i> , 22 (39), pp. 21242-21248
29.	Gui, M.M., Yap, Y.X., Chai, S.-P., Mohamed, A.R., Multi-walled carbon nanotubes modified with (3-aminopropyl)triethoxysilane for effective carbon dioxide adsorption (2013) <i>International Journal of Greenhouse Gas Control</i> , 14, pp. 65-73
30.	Zardini, H.Z., Amiri, A., Shanbedi, M., Maghrebi, M., Baniadam, M, Enhanced antibacterial activity of amino acids-functionalized multi walled carbon nanotubes by a simple method (2012) <i>Colloids and Surfaces B: Biointerfaces</i> , 92, pp. 196-202
31.	Mochalin, V.N., Neitzel, I., Etzold, B.J.M., Peterson, A., Palmese, G., Gogotsi, Y., Covalent incorporation of aminated nanodiamond into an epoxy polymer network (2011) <i>ACS Nano</i> , 5 (9), pp. 7494-7502
32.	Ladaniuc, M.A., Dumitrache, L., Raditoiu, V., Raditoiu, A., Hubcă, G., Study of the synthesis of glycol modified epoxy resins in microwave field (2011) <i>UPB Scientific Bulletin, Series B: Chemistry and Materials Science</i> , 73 (1), pp. 49-56
Voicu A.I.M., Garea S.A., <b>Pandele A.M.</b> , Iovu H., Properties of hybrid films based on poly(vinyl) alcohol and porous clay heterostructures, <i>UPB Scientific Bulletin, Series B: Chemistry and Materials Science</i> , 2017, 79(3), 57-66, ISSN 1454-2331, WOS:000416417800006	
1.	Mihai A.I.V., Garea S.A., Vasile E., Ghebaour A., Iovu H., Hybrid hosts based on sodium alginate and porous clay heterostructures for drug encapsulation, <i>Polymers</i> , 2021, 13(16), 2803
<b>Pandele A.M.</b> , Ionita M., Iovu H., Molecular modeling of mechanical properties of the chitosan based graphene composites, <i>UPB Scientific Bulletin, Series B: Chemistry and Materials Science</i> , 2014, 76(1), 107-112, ISSN 1454-2331, WOS:000440249300011	
1.	Omer A.M., Elmeligy M.A., Abd El-Monaem E.M., Barlog M., Heydari A., pH-sensitive aminated chitosan/carboxymethyl cellulose/aminated graphene oxide coated composite microbeads for efficient encapsulation and sustained release of 5-fluorouracil, <i>International Journal of Biological Macromolecules</i> , 2024, 283, 137250
2.	Singh J., Kumar R., Atomistic Simulations for Mechanical Behaviour of Natural Biopolymers for Material Design, <i>Microbiology for a Sustainable Future</i> , 2024, 467-476
3.	Singh J., Kumar R., Atomistic Modelling of Bio-Nanocomposites for Bone Tissue Engineering Applications, <i>materials Horizons from Nature to Nanomaterials</i> , 2024, Part F2604, 83-93
4.	Ilie-Mihai R.M., Stefan Van Staden R.I., Van Staden J.K.F., Review-Progress in Electroanalysis of p53, CEA, and CA19-9, <i>Journal of the Electrochemical Society</i> , 2022, 169(3), 037518
5.	Taheri Z., Nakhaei Pour A., Studying of the adsorption and diffusion behaviors of methane on graphene oxide by molecular dynamics simulation, <i>Journal of Molecular Modeling</i> , 2021, 27(2), 59
6.	Manta A., Gresil M., Soutis C., Tensile and flexural behaviour of a graphene/epoxy composite: Experiments and simulation, <i>Jphys Materials</i> , 2020, 3(1), 014006

7.	Stefan-Van Staden R.I., Ilie-Mihai R.M., Pogacean F., Prundeanu S.M., Needle stochastic sensors for on-site fast recognition and quantification of biomarkers for gastric cancer in biological samples
8.	Rahimi, K., Riahi, S., Abbasi, M., Fakhroueian, Z., Modification of multi-walled carbon nanotubes by 1,3-diaminopropane to increase CO <sub>2</sub> adsorption capacity (2019) Journal of Environmental Management, 242, pp. 81-89
9.	Jabeen F., Arshad M.I., Mahmood Zia K., Akhtar M., Rehman A.U., Computational modeling for bionanocomposites, Bionanocomposites Green Synthesis and Applications, 2020, 367-420
10.	Faragi S., Hamedani A., Alahyarizadeh G., Aghaie M., Arab B., Mechanical properties of carbon nanotube- and graphene-reinforced Araldite LY/Aradur HY 5052 resin epoxy composites: a molecular dynamics study, Journal of Molecular Modeling, 2019, 25(7), 191
11.	Cukierman A.L., Bonelli P.R., Capture of water contaminants by a new generation of sorbents based on graphene and related materials, nanotechnology for Sustainable Water Resources, 2018, 227-276
12.	Platero E., Fernandez M.E., Bonelli P.R., Cukierman A.L., Graphene oxide/alginate beads as adsorbents: Influence of the load and the drying method on their physicochemical-mechanical properties and adsorptive performance, Journal of Colloid and Interface Science, 2017, 491, 1-12
13.	Spanos K.N., Georgantzinos S.K., Anifantis N.K., Mechanical properties of graphene nanocomposites: A multiscale finite element prediction, Composite Structures, 2015, 132, 536-544
14.	Kausar, T., Nayeem, S.M., Computational analysis on conformational dynamics of bone morphogenetic protein-2 (BMP-2) (2017) Journal of Biomolecular Structure and Dynamics, 35 (10), pp. 2224-2234
Diacon A., Rusen E., Boscornea C., Pandele A.M., Cincu C., New phthalocyanine-fullerene dyads for solar cells, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 2011, 73(3), 87-98, ISSN 1454-2331, WOS:000440226600008	
1.	Turaev Kh., Shukurov D. Th., Djalilov A.T., Karimov M.U., New review of dye sensitive solar cells, International Journal of Engineering Trends and Technology, 2021, 69(9), 265-271
2.	Regulska E., Rivera-Nazario D.M., Karpinska J., Plonska-Brzezinska M.E., Echegoyen L., Enhanced Photocatalytic Performance of Porphyrin/Phthalocyanine and Bis(4-pyridyl)pyrrolidinofullerene modified Titania, Chemistryselect, 2017, 2(8), 2462-2470
3.	Toader G., Rusen E., Teodorescu M., Rotariu T., Rotariu A., Novel polyurea polymers with enhanced mechanical properties, Journal of Applied Polymer Science, 2016, 133(38), APP43967
4.	Ranta J., Kunisto K., Niskanen M., Hukka T.I., Lemmetyinen H., Monoisomeric phthalocyanines and phthalocyanine-fullerene dyads with polar side chains: Synthesis, modeling, and photovoltage, Journal of Physical Chemistry C., 2014, 118(5), 2754-2765
5.	Soriga I, Neagu C., Thermal analysis of a linear Fresnel lens solar collector with black body cavity receiver, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 2012, 74(4), 105-116
6.	Zhao H., Liu Z., Zhang X., Zhu Y., Zheng J., Synthesis, photophysical and electrochemical properties of amide-linked phthalocyanine-fullerene dyad, Chinese Journal of Chemistry, 2012, 30(8), 1766-1770

## ANEXA FIȘA DE ÎNDEPLINIRE A STANDARDELOR MINIMALE PENTRU SUSȚINERE A TEZEI DE ABILITARE

**Subanexa 4d-B4**  
**Indicator de verificare NCO (director/responsabil proiect)**

NCO			
Numar contracte de cercetare-dezvoltare-inovare obtinute prin competitie la nivel national sau international oricontracte de cercetare-dezvoltare-inovare cu tertii in valoare minima echivalenta 10000 EUR			
Contract de cercetare	Poziția ocupată	Perioada de derulare	Valoare (lei)
Contract nr. PD59/2018 Sursă finanțare: UEFISCSU Titlul Proiectului: “Dezvoltarea de noi biomateriale injectabile cu efect terapeutic pe	Director de proiect	2018-2020	250000 RON

<i>baza de oxid de grafena cu potentiale aplicatii in regenerare de os</i>			
Contract nr. TE110/2022 Sursă finanțare: UEFISCSU Titlul Proiectului: “ <i>Materiale inovatoare biocompatibile pentru fixarea interna a fracturilor osoase cu proprietati mecanice imbunatatit</i> ”	Director de proiect	2022-2024	450000 RON

**CANDIDAT: Conferentiar Dr.Ing. Andreea Madalina Pandele**  
**Departamentul de Chimie Analitica si Ingineria Mediului**  
**Facultate de Inginerie Chimica si Biotehnologii**

Subanexa 4d-C1

**FIȘA DE CALCUL ȘI DE SUSȚINERE**  
**A INDICATORULUI DE MERIT (IM) MENȚIONAT LA PUNCTUL C**

<b>a) articole publicate în oricare din jurnalele POLITEHNICA București</b> <b>câte 15 puncte pentru fiecare articol</b>		
<b>Nr.</b>	<b>Publicația cu toate elementele de identificare</b>	<b>Punctaj</b>
1.	Damian C.M., Pandele A.M., Iovu H., Ethylenediamine functionalization effect on the thermo-mechanical properties of epoxy nanocomposites reinforced with multiwall carbon nanotubes, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 2010, 72(3), 163 – 174, ISSN 1454-2331, WOS: 000440215700015	<b>15</b>
2.	Onaș, A.M.; Olăreț, E.; Pandele, A.M.; Raicopol, M.D.; Pilan, L.; Iovu, H. "A comparative study on the preparation of glassy carbon electrodes modified with electrochemically reduced graphene oxide" UPB Scientific Bulletin, Series B, Chemistry and Materials Science 2024, 86, 95 ISSN: 1454-2331; DOI: -; WOS: 001196525500016	<b>15</b>
3.	Pandele A.M., Ionita M., Iovu H., Molecular modeling of mechanical properties of the chitosan based graphene composites, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 2014, 76(1), 107-112, ISSN 1454-2331, WOS:000440249300011	<b>15</b>
4.	Diacon A., Rusen E., Boscornea C., Pandele A.M., Cincu C., New phthalocyanine-fullerene dyads for solar cells, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 2011, 73(3), 87-98, ISSN 1454-2331, WOS:000440226600008	<b>15</b>
5.	Voicu A.I.M., Garea S.A., Pandele A.M., Iovu H., Properties of hybrid films based on poly(vinyl) alcohol and porous clay heterostructures, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 2017, 79(3), 57-66, ISSN 1454-2331, WOS:000416417800006	<b>15</b>
<b>PUNCTAJ TOTAL a)</b>		<b>75</b>
<b>b) citări ale articolelor din jurnalele POLITEHNICA București, în lucrări proprii,</b> <b>publicate în reviste sau proceeding-uri indexate WoS</b> <b>câte 10 puncte pentru fiecare citare</b>		
1	Damian C.M., Pandele A.M., Iovu H., Ethylenediamine functionalization effect on the thermo-mechanical properties of epoxy nanocomposites reinforced with multiwall carbon nanotubes, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 2010, 72(3), 163 – 174, , ISSN 1454-2331, WOS: 000440215700015	<b>320</b>
1. Kazemi Esfeh T., Arefinia R., Moini Jazani O., Fallahi M., A novel epoxy adhesive with ground rubber tire powder and carboxylated multiwalled carbon nanotubes, Polymer Composites, 2023, 44(12), 8353-8365		
2. Mahmoudian M., Khazani Y., Gozali Balkanloo P., Enayati M., Poly(diallyldimethylammonium chloride)-grafted carboxylated-MWCNT as an additive in the polyethersulfone membrane, Polymer Bulletin, 2021, 78(8), 4313-4332		

3. Jamshidian M., Sadeghalvad B., Ghasemi I., Ebrahimi H., Rezaeian I., Fabrication of Polyethersulfone/Functionalized MWCNTs Nanocomposite and Investigation its Efficiency as an Adsorbent of Pb(II) Ions, *Arabian Journal for Science and Engineering*, 2021, 46(7), 6259-6273
4. Aliahmad, N., Biswas, P.K., Wable, V., Hernandez, I., Siegel, A., Dalir, H., Agarwal, M., Electrospun Thermosetting Carbon Nanotube-Epoxy Nanofibers (2021) *ACS Applied Polymer Materials*, 3 (2), pp. 610-619
5. Karami, H., Papari-Zare, S., Shanbedi, M., Eshghi, H., Dashtbozorg, A., Akbari, A., Mohammadian, E., Heidari, M., Sahin, A.Z., Teng, C.B., the thermophysical properties and the stability of nanofluids containing carboxyl-functionalized graphene nanoplatelets and multi-walled carbon nanotubes (2019) *International Communications in Heat and Mass Transfer*, 108, art. no. 104302
6. Montanheiro, T.L.A., de Menezes, B.R.C., Ribas, R.G., Montagna, L.S., Campos, T.M.B., Schatkoski, V.M., Righetti, V.A.N., Passador, F.R., Thim, G.P, Covalently  $\gamma$ -aminobutyric acid-functionalized carbon nanotubes: improved compatibility with PHBV matrix (2019) *SN Applied Sciences*, 1 (10), art. no. 1177
7. Kang, Z., Zhang, Y., Zhou, M, AgNPs@CNTs/Ag hybrid films on thiolated PET substrate for flexible electronics (2019) *Chemical Engineering Journal*, 368, pp. 223-234
8. Rahimi, K., Riahi, S., Abbasi, M., Fakhroueian, Z., Modification of multi-walled carbon nanotubes by 1,3-diaminopropane to increase CO<sub>2</sub> adsorption capacity (2019) *Journal of Environmental Management*, 242, pp. 81-89
9. Ehsan Moaseri, Bazubandi, B., Karimi, M., Maghrebi, M., Baniadam, M., Mechanical Improvements of Multi-Walled Carbon Nanotube-Epoxy Composite: Covalent Functionalization of Multi-Walled Carbon Nanotube by Epoxy Chains (2019) *Polymer Science - Series B*, 61 (3), pp. 341-348
10. Amaral Montanheiro, T.L., Montagna, L.S., Machado, J.P.B., Lemes, A.P, Covalent functionalization of MWCNT with PHBV chains: Evaluation of the functionalization and production of nanocomposites (2019) *Polymer Composites*, 40 (1), pp. 288-295
11. Gao, W., Guo, J., Xiong, J., Smith, A.T., Sun, L, Improving thermal, electrical and mechanical properties of fluoroelastomer/amino-functionalized multi-walled carbon nanotube composites by constructing dual crosslinking networks (2018) *Composites Science and Technology*, 162, pp. 49-57
12. Obeid, A., Al-Shuja'a, O., El-Shekeil, Y., Aqeel, S., Salit, M.S., Al-Washali, Z., New strategy for chemically attachment of amide group on multi-walled carbon Nanotubes surfaces: Synthesis, characterization and study of DC electrical conductivity (2018) *Current Chemistry Letters*, 7 (1), pp. 17-26
13. Moaseri, E., Bazubandi, B., Karimi, M., Baniadam, M., Maghrebi, M., Fabrication of robust multiwalled carbon nanotube buckypapers through crosslinking reaction of epoxy chains with its curing agent (2017) *Polymer Composites*, 38 (12), pp. 2727-2733
14. Mallakpour, S., Behranvand, V., Sono-assisted preparation of bio-nanocomposite for removal of Pb<sup>2+</sup> ions: Study of morphology, thermal and wettability properties (2017) *Ultrasonics Sonochemistry*, 39, pp. 872-882
15. Karami, P., Shojaei, A., Morphological and mechanical properties of polyamide 6/nanodiamond composites prepared by melt mixing: effect of surface functionality of nanodiamond (2017) *Polymer International*, 66 (4), pp. 557-565
16. Vijila, J.J.J., Mohanraj, K., Henry, J., Sivakumar, G., Microwave-assisted Bi<sub>2</sub>Se<sub>3</sub> nanoparticles using various organic solvents (2016) *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, 153, pp. 457-464
17. Lemes, A.P., Montanheiro, T.L.A., Passador, F.R., Durán, N., Nanocomposites of polyhydroxyalkanoates reinforced with carbon nanotubes: Chemical and biological properties (2015) *Advanced Structured Materials*, 75, pp. 79-108
18. Lee, M.-S., Lee, S.-Y., Park, S.-J, Preparation and characterization of multi-walled carbon nanotubes impregnated with polyethyleneimine for carbon dioxide capture (2015) *International Journal of Hydrogen Energy*, 40 (8), pp. 3415-3421
19. Patole, A., Lubineau, G, Carbon nanotubes with silver nanoparticle decoration and conductive polymer coating for improving the electrical conductivity of polycarbonate composites (2015) *Carbon*, 81 (1), pp. 720-730
20. Benlikaya, R., Slobodian, P., Riha, P., Olejnik, R., The enhanced alcohol sensing response of multiwalled carbon nanotube networks induced by alkyl diamine treatment (2014) *Sensors and Actuators, B: Chemical*, 201, pp. 122-130
21. Do Amaral Montanheiro, T.L., Cristóvan, F.H., Machado, J.P.B., Tada, D.B., Durán, N., Lemes, A.P., Effect of MWCNT functionalization on thermal and electrical properties of PHBV/MWCNT nanocomposites (2014) *Journal of Materials Research*, 760
22. Amaranatha Reddy, D., Kim, D.H., Rhee, S.J., Jung, C.U., Lee, B.W., Liu, C., Hydrothermal synthesis of wurtzite Zn<sub>1-x</sub>Ni<sub>x</sub>S mesoporous nanospheres: With blue-green emissions and ferromagnetic Curie point above room temperature (2014) *Journal of Alloys and Compounds*, 588, pp. 596-604
23. Duma, A., Prodana, M., Demetrescu, I., Cisplatin functionalization of multiwall carbon nanotubes (2014) *UPB Scientific Bulletin, Series B: Chemistry and Materials Science*, 76 (1), pp. 49-58
24. Montanheiro, T.L.D.A., Cristóvan, F.H., Machado, J.P.B., Tada, D.B., Durán, N., Lemes, A.P, Effect of MWCNT functionalization on thermal and electrical properties of PHBV/MWCNT nanocomposites (2014) *Journal of Materials Research*, 30 (1), pp. 55-65
25. Zaharia, C., Tudora, M.-R., Damian, C.M., Vasile, E., Stanescu, P.O., Silk fibroin and functionalized multiwall carbon nanotubes hydrogels and their biomineralization potential (2013) *Materiale Plastice*, 50 (3), pp. 159-162
26. Osipov, N.N., Klyuev, M.V, Hydrogenation of unsaturated compounds in the presence of palladium-containing modified carbon nanofibers (2013) *Russian Journal of General Chemistry*, 83 (5), pp. 928-931
27. Gui, M.M., Yap, Y.X., Chai, S.-P., Mohamed, A.R., Multi-walled carbon nanotubes modified with (3-aminopropyl)triethoxysilane for effective carbon dioxide adsorption (2013) *International Journal of Greenhouse Gas Control*, 14, pp. 65-73
28. Gui, M.M., Yap, Y.X., Chai, S.-P., Mohamed, A.R, Amine-functionalization of multi-walled carbon nanotubes for adsorption of carbon dioxide (2013) *Asia-Pacific Journal of Chemical Engineering*, 8 (2), pp. 262-270

<p>29. Gromov, A.V., Gray, N., Szilágyi, P.Á., Campbell, E.E.B., Direct grafting of carbon nanotubes with ethylenediamine (2012) <i>Journal of Materials Chemistry</i>, 22 (39), pp. 21242-21248</p> <p>30. Zardini, H.Z., Amiri, A., Shanbedi, M., Maghrebi, M., Baniadam, M., Enhanced antibacterial activity of amino acids-functionalized multi walled carbon nanotubes by a simple method (2012) <i>Colloids and Surfaces B: Biointerfaces</i>, 92, pp. 196-202</p> <p>31. Mochalin, V.N., Neitzel, I., Etzold, B.J.M., Peterson, A., Palmese, G., Gogotsi, Y., Covalent incorporation of aminated nanodiamond into an epoxy polymer network (2011) <i>ACS Nano</i>, 5 (9), pp. 7494-7502</p> <p>32. Ladaniuc, M.A., Dumitrache, L., Raditoiu, V., Raditoiu, A., Hubcă, G., Study of the synthesis of glycol modified epoxy resins in microwave field (2011) <i>UPB Scientific Bulletin, Series B: Chemistry and Materials Science</i>, 73 (1), pp. 49-56</p>		
<b>2.</b>	Voicu A.I.M., Garea S.A., Pandeale A.M., Iovu H., Properties of hybrid films based on poly(vinyl) alcohol and porous clay heterostructures, <i>UPB Scientific Bulletin, Series B: Chemistry and Materials Science</i> , 2017, 79(3), 57-66, ISSN 1454-2331, WOS:000416417800006	<b>10</b>
<p>1. Mihai A.I.V., Garea S.A., Vasile E., Ghebaur A., Iovu H., Hybrid hosts based on sodium alginate and porous clay heterostructures for drug encapsulation, <i>Polymers</i>, 2021, 13(16), 2803</p>		
<b>3.</b>	Pandeale A.M., Ionita M., Iovu H., Molecular modeling of mechanical properties of the chitosan based graphene composites, <i>UPB Scientific Bulletin, Series B: Chemistry and Materials Science</i> , 2014, 76(1), 107-112, ISSN 1454-2331, WOS:000440249300011	<b>130</b>
<p>1. Omer A.M., Elmeligy M.A., Abd El-Monaem E.M., Barlog M., Heydari A., pH-sensitive aminated chitosan/carboxymethyl cellulose/aminated graphene oxide coated composite microbeads for efficient encapsulation and sustained release of 5-fluorouracil, <i>International Journal of Biological Macromolecules</i>, 2024, 283, 137250</p> <p>2. Singh J., Kumar R., Atomistic Simulations for Mechanical Behaviour of Natural Biopolymers for Material Design, <i>Microbiology for a Sustainable Future</i>, 2024, 467-476</p> <p>3. Singh J., Kumar R., Atomistic Modelling of Bio-Nanocomposites for Bone Tissue Engineering Applications, <i>materials Horizons from Nature to Nanomaterials</i>, 2024, Part F2604, 83-93</p> <p>4. Ilie-Mihai R.M., Stefan Van Staden R.I., Van Staden J.K.F., Review-Progress in Electroanalysis of p53, CEA, and CA19-9, <i>Journal of the Electrochemical Society</i>, 2022, 169(3), 037518</p> <p>5. Taheri Z., Nakhai Pour A., Studying of the adsorption and diffusion behaviors of methane on graphene oxide by molecular dynamics simulation, <i>Journal of Molecular Modeling</i>, 2021, 27(2), 59</p> <p>6. Stefan-Van Staden R.I., Ilie-Mihai R.M., Pogacean F., Prundeanu S.M., Needle stochastic sensors for on-site fast recognition and quantification of biomarkers for gastric cancer in biological samples</p> <p>7. Manta A., Gresil M., Soutis C., Tensile and flexural behaviour of a graphene/epoxy composite: Experiments and simulation, <i>Jphys Materials</i>, 2020, 3(1), 014006</p> <p>8. Rahangdale D., Joshi N., Kumar A., Chitosan and its derivatives: A new versatile biopolymer for various applications, <i>Functional Chitosan Drug Delivery and Biomedical Applications</i>, 2020, 1-42</p> <p>9. Jabeen F., Arshad M.I., Mahmood Zia K., Akhtar M., Rehman A.U., Computational modeling for bionanocomposites, <i>Bionanocomposites Green Synthesis and Applications</i>, 2020, 367-420</p> <p>10. Faragi S., Hamedani A., Alahyarizadeh G., Aghaie M., Arab B., Mechanical properties of carbon nanotube- and graphene-reinforced Araldite LY/Aradur HY 5052 resin epoxy composites: a molecular dynamics study, <i>Journal of Molecular Modeling</i>, 2019, 25(7), 191</p> <p>11. Cukierman A.L., Bonelli P.R., Capture of water contaminants by a new generation of sorbents based on graphene and related materials, <i>nanotechnology for Sustainable Water Resources</i>, 2018, 227-276</p> <p>12. Platero E., Fernandez M.E., Bonelli P.R., Cukierman A.L., Graphene oxide/alginate beads as adsorbents: Influence of the load and the drying method on their physicochemical-mechanical properties and adsorptive performance, <i>Journal of Colloid and Interface Science</i>, 2017, 491, 1-12</p> <p>13. Spanos K.N., Georgantzinou S.K., Anifantis N.K., Mechanical properties of graphene nanocomposites: A multiscale finite element prediction, <i>Composite Structures</i>, 2015, 132, 536-544</p> <p>14. Kausar, T., Nayeem, S.M., Computational analysis on conformational dynamics of bone morphogenetic protein-2 (BMP-2) (2017) <i>Journal of Biomolecular Structure and Dynamics</i>, 35 (10), pp. 2224-2234</p>		
<b>4.</b>	Diacon A., Rusen E., Boscornea C., Pandeale A.M., Cincu C., New phthalocyanine-fullerene dyads for solar cells, <i>UPB Scientific Bulletin, Series B: Chemistry and Materials Science</i> , 2011, 73(3), 87-98, ISSN 1454-2331, WOS:000440226600008	<b>60</b>
<p>1. Turaev Kh., Shukurov D. Th., Djalilov A.T., Karimov M.U., New review of dye sensitive solar cells, <i>International Journal of Engineering Trends and Technology</i>, 2021, 69(9), 265-271</p> <p>2. Regulska E., Rivera-Nazario D.M., Karpinska J., Plonska-Brzezinska M.E., Echegoyen L., Enhanced Photocatalytic Performance of Porphyrin/Phthalocyanine and Bis(4-pyridyl)pyrrolidinofullerene modified Titania, <i>Chemistryselect</i>, 2017, 2(8), 2462-2470</p> <p>3. Toader G., Rusen E., Teodorescu M., Rotariu T., Rotariu A., Novel polyurea polymers with enhanced mechanical properties, <i>Journal of Applied Polymer Science</i>, 2016, 133(38), APP43967</p> <p>4. Ranta J., Kunisto K., Niskanen M., Hukka T.I., Lemmetyinen H., Monoisomeric phthalocyanines and phthalocyanine-fullerene dyads with polar side chains: Synthesis, modeling, and photovoltage, <i>Journal of Physical Chemistry C.</i>, 2014, 118(5), 2754-2765</p> <p>5. Soriga I, Neagu C., Thermal analysis of a linear Fresnel lens solar collector with black body cavity receiver, <i>UPB Scientific Bulletin, Series B: Chemistry and Materials Science</i>, 2012, 74(4), 105-116</p> <p>6. Zhao H., Liu Z., Zhang X., Zhu Y., Zheng J., Synthesis, photophysical and electrochemical properties of amide-linked phthalocyanine-fullerene dyad, <i>Chinese Journal of Chemistry</i>, 2012, 30(8), 1766-1770</p>		

<b>PUNCTAJ TOTAL b)</b>		<b>520</b>
<b>c) recenzii ale articolelor din jurnalele POLITEHNICA București câte 5 puncte pentru fiecare recenzie</b>		
<b>PUNCTAJ TOTAL c)</b>		<b>0</b>
<b>d) articole publicate cu autori străini (cu afiliere la o entitate din străinătate) în reviste sau proceeding-uri indexate WoS câte 10 puncte pentru fiecare articol</b>		
<b>1.</b>	A.M. Pandele, P. Neacsu, A. Cimpean, A.I. Staras, F. Miculescu, A. Iordache, S.I. Voicu*, <b>V.K. Thakur</b> , O.D. Toader, Cellulose acetate membranes functionalized with resveratrol by covalent immobilization for improved Osseointegration, <b>Applied Surface Science</b> , 2018, 438, 2-13, 10.1016/j.apsusc.2017.11.102, WOS: 000425731200002	<b>10</b>
<b>2.</b>	OS Serbanescu, AM Pandele, M Oprea, A Semenescu, <b>V.K. Thakur</b> , SI Voicu, Crown ether-immobilized cellulose acetate membranes for the retention of Gd (III), <b>Polymers</b> , 13(22), 3978, 2021, 10.3390/polym13223978, WOS: 000724513100001	<b>10</b>
<b>3.</b>	V. Satulu, B. Mitu, A.M. Pandele, S.I. Voicu, <b>L. Kravets</b> , G. Dinescu, Composite polyethyleneterephthalate track membranes with teflon-like layers: Preparation and surface properties, <b>Applied Surface Science</b> 476 (2019) 452–459, doi: 10.1016/j.apsusc.2019.01.109., WOS: 000459458600053	<b>10</b>
<b>PUNCTAJ TOTAL d)</b>		<b>30</b>
<b>e) articole publicate in jurnale Q1 (în afara numărului prevăzut de standardele minimale CNATDCU pentru fiecare domeniu) câte 20 puncte pentru fiecare articol 8 publicații conform Anexei 4d-1. Indicatori de verificare a standardelor NTOP</b>		
<b>PUNCTAJ TOTAL e)</b>		<b>160</b>

**PUNCTAJ TOTAL - Indicator de merit (IM): 825 puncte**