

FIȘA DE VERIFICARE

Fișa de îndeplinire a standardelor minimale

Domeniul: **Inginerie Chimică**

Candidat: **conf. dr. Bumbac Marius**

Centralizator		
Indicator	Realizat	Minim (cf. OM 6129/2016 - Anexa 8)
NTOP	10	4
NP	34	20
FIC (AP + AC+ fractii)	97.06	30
FIC (AP + fractii)	50.72	30
NC (fara autocitari WOS)	459	120
NC (fara autocitari Scopus)	477	120
NCO (numar proiecte - director proiect > 10000 euro)	1	1

1) **NTOP – 10** (Tabel 1)

Tabel 1. NTOP

Nr art	Articol	Quartil	referinta WOS	Factor de impac	tip autora
S2	Zaharescu, T., Bumbac, M. *, Nicolescu, C. M. ", Craciun, A., & Mirea, R. (2026). Oxidation Strength of PLA Filled with Algal Biomass and Rosemary Extract Powders for Food-Safe Handling, <i>Polymers</i> , 2026, 18(4), 504. https://doi.org/10.3390/polym18040504	ISI-Q1	FI/2024	4.900	AC
S4	Zaharescu, T., Bumbac, M. *, Nicolescu, C. M. *, Stelescu, M. D., Borbath, T., & Borbath, I. (2025). Evaluation of γ -Irradiation Effects on EPDM/SBS Blends for Durability and Recycling Potential. <i>Polymers</i> , 17(10), 1314. https://doi.org/10.3390/polym17101314	ISI-Q1	FI/2024	4.900	AC
S5	Serban, B. C., Buiu, O., Bumbac, M. *, Dumbrăvescu, N., Brezeanu, M., Matei-Gabriel, U., ... & Cobianu, C. (2025). Carbon nanohorns and their nanohybrid/nanocomposites as sensing layers for humidity sensors—a review. <i>Polymers</i> , 17(16), 2198. https://doi.org/10.3390/polym17162198	ISI-Q1	FI/2024	4.900	AC
S10	Bumbac, M., Zaharescu, T., Nicolescu, C.M. *, Borbath, T. and Borbath, I., Chemiluminescence-based evaluation of styrene block copolymers' recyclability. <i>Scientific Reports</i> , 2024, 14(1), p.28221. https://doi.org/10.1038/s41598-024-79193-6	ISI-Q1	FI/2024	3.900	AP
S15	Bumbac, M., Nicolescu, C.M., Zaharescu, T., Bumbac, C., Manea, E.E., Ionescu, I.A., Gurgu, I.V., Serban, B.C., Buiu, O. and Dumitrescu, C., Influence of Biogenic Material Content on the Biodegradability of Styrene-Butadiene Composites with Incorporated <i>Chlorella vulgaris</i> Biomass. <i>Polymers</i> , 2024, 16(9), p.1241. https://doi.org/10.3390/polym16091241	ISI-Q1	FI/2024	4.900	AP
S16	Bumbac, M., Nicolescu, C.M., Zaharescu, T., Gurgu, I.V., Bumbac, C., Manea, E.E., Ionescu, I.A., Serban, B.C., Buiu, O. and Dumitrescu, C., 2024. Biodegradation Study of Styrene–Butadiene Composites with Incorporated <i>Arthrospira platensis</i> Biomass. <i>Polymers</i> 2024, 16, 1218. https://doi.org/10.3390/polym16091241	ISI-Q1	FI/2024	4.900	AP
S23	Nicolescu, C.M., Bumbac, M. *, Radulescu, C., Buruleanu, C.L., Olteanu, R.L., Stanescu, S.G., Gorghiu, L.M., Serban, B.C. and Buiu, O., 2023. Phytochemical Statistical Mapping of Red Grape Varieties Cultivated in Romanian Organic and Conventional Vineyards. <i>Plants</i> , 2023, 12(24), p.4179. https://doi.org/10.3390/plants12244179	ISI-Q1	FI/2024	4.100	AC
S24	Bumbac, M., Nicolescu, C.M., Olteanu, R.L., Gherghinoiu, S.C., Bumbac, C., Tiron, O., Manea, E.E., Radulescu, C., Gorghiu, L.M., Stanescu, S.G., Serban, B.C., Buiu, O. Preparation and Characterization of Microalgae Styrene-Butadiene Composites Using <i>Chlorella vulgaris</i> and <i>Arthrospira platensis</i> Biomass. <i>Polymers</i> 2023, 15, 1357. https://doi.org/10.3390/polym15061357	ISI-Q1	FI/2024	4.900	AP
S25	Nicolescu, C.M., Bumbac, M. *, Buruleanu, C.L. *, Popescu, E.C., Stanescu, S.G., Georgescu, A.A., Toma, S.M. Biopolymers Produced by Lactic Acid Bacteria: Characterization and Food Application. <i>Polymers</i> 2023, 15, 1539. https://doi.org/10.3390/polym15061539	ISI-Q1	FI/2024	4.900	AC
S39	Radulescu, C, Buruleanu, LC, Nicolescu, C.M., Olteanu, RL, Bumbac, M. *, Holban, GC, Simal-Gandara, J, Phytochemical Profiles, Antioxidant and Antibacterial Activities of Grape (<i>Vitis vinifera</i> L.) Seeds and Skin from Organic and Conventional Vineyards, <i>Plants-Basel</i> , 2223-7747, 2020, 9, 11, 1470, WOS:000593699200001. https://doi.org/10.3390/plants9111470	ISI-Q1	FI/2024	4.100	AP
Total		10			

2) **NP - 34** (Tabel 2)

Nr articol	Articol	Quartila	referinta WOS	Factor de impact	tip autorat	categorie JCR WOS
S2	Zaharescu, T., Bumbac, M.*, Nicolescu, C. M.", Craciun, A., & Mirea, R. (2026). Oxidation Strength of PLA Filled with Algal Biomass and Rosemary Extract Powders for Food-Safe Handling, <i>Polymers</i> , 2026, 18(4), 504. https://doi.org/10.3390/polym18040504	ISI-Q1	FI/2024	4.900	AC	Polymer Science
S3	Serban, B. C., Dumbravescu, N., Buiu, O., Bumbac, M.*, Dumbravescu, C., Brezeanu, M., ... & Brincoveanu, O. (2025). Carbon Nano-Onions–Polyvinyl Alcohol Nanocomposite for Resistive Monitoring of Relative Humidity. <i>Sensors</i> , 25(10), 3047. https://doi.org/10.3390/s25103047	ISI-Q2	FI/2024	3.500	AC	Chemistry, Analytical, Instruments & Instrumentation
S4	Zaharescu, T., Bumbac, M.*, Nicolescu, C. M.*, Stelescu, M. D., Borbath, T., & Borbath, I. (2025). Evaluation of γ -Irradiation Effects on EPDM/SBS Blends for Durability and Recycling Potential. <i>Polymers</i> , 17(10), 1314. https://doi.org/10.3390/polym17101314	ISI-Q1	FI/2024	4.900	AC	Polymer Science
S5	Serban, B. C., Buiu, O., Bumbac, M.*, Dumbrăvescu, N., Brezeanu, M., Matei-Gabriel, U., ... & Cobianu, C. (2025). Carbon nanohorns and their nanohybrid/nanocomposites as sensing layers for humidity sensors—a review. <i>Polymers</i> , 17(16), 2198. https://doi.org/10.3390/polym17162198	ISI-Q1	FI/2024	4.900	AC	Polymer Science
S8	Serban, B.-C., Dumbravescu, N., Buiu, O., Bumbac, M*, Brezeanu, M., Pachiu, C., Nicolescu, C.-M., Brancoveanu, O., & Cobianu, C. Holey Carbon Nanohorns-Based Nanohybrid as Sensing Layer for Resistive Ethanol Sensor. <i>Sensors</i> , 2025, 25(5), 1299. https://doi.org/10.3390/s25051299	ISI-Q2	FI/2024	3.500	AC	Chemistry, Analytical, Instruments & Instrumentation
S10	Bumbac, M., Zaharescu, T., Nicolescu, C.M.*, Borbath, T. and Borbath, I., Chemiluminescence-based evaluation of styrene block copolymers' recyclability. <i>Scientific Reports</i> , 2024, 14(1), p.28221. https://doi.org/10.1038/s41598-024-79193-6	ISI-Q1	FI/2024	3.900	AP	Multidisciplinary Sciences

S14	Serban, B.C., Buiu, O., Bumbac, M.*, Dumbravescu, N., Pachiu, C., Brezeanu, M., Craciun, G., Nicolescu, C.M., Diaconescu, V. and Cobianu, C., Ternary Holey Carbon Nanohorn/Potassium Chloride/Polyvinylpyrrolidone Nanohybrid as Sensing Film for Resistive Humidity Sensor. Coatings, 2024, 14(4), p.517. https://doi.org/10.3390/coatings14040517	ISI-Q2	FI/2024	2.800	AC	Materials Science, Coatings & Films
S15	Bumbac, M., Nicolescu, C.M., Zaharescu, T., Bumbac, C., Manea, E.E., Ionescu, I.A., Gurgu, I.V., Serban, B.C., Buiu, O. and Dumitrescu, C., Influence of Biogenic Material Content on the Biodegradability of Styrene-Butadiene Composites with Incorporated Chlorella vulgaris Biomass. Polymers, 2024, 16(9), p.1241. https://doi.org/10.3390/polym16091241	ISI-Q1	FI/2024	4.900	AP	Polymer Science
S16	Bumbac, M., Nicolescu, C.M., Zaharescu, T., Gurgu, I.V., Bumbac, C., Manea, E.E., Ionescu, I.A., Serban, B.C., Buiu, O. and Dumitrescu, C., 2024. Biodegradation Study of Styrene–Butadiene Composites with Incorporated Arthrospira platensis Biomass. Polymers 2024, 16, 1218. https://doi.org/10.3390/polym16091218	ISI-Q1	FI/2024	4.900	AP	Polymer Science
S17	Zaharescu, T., Bumbac, M*. and Nicolescu, C.M., 2024. Stability effects of added biomass on microalgae styrene–butadiene–styrene composites. Journal of Thermal Analysis and Calorimetry, pp.1-13. https://doi.org/10.1007/s10973-024-13419-7	ISI-Q2	FI/2024	3.100	AC	Chemistry, Analytical
S19	Zaharescu, T., Bumbac, M.*, Nicolescu, C.M. and Blanco, I., The contribution of silica nanoparticles to the stability of styrene-isoprene-styrene triblock copolymer (SIS). II. Energetic peculiarities. Radiation Physics and Chemistry, 2024, 215, p.111318. https://doi.org/10.1016/j.radphyschem.2023.111318	ISI-Q2	FI/2024	3.300	AC	Chemistry, Physical
S23	Nicolescu, C.M., Bumbac, M*, Radulescu, C., Buruleanu, C.L., Olteanu, R.L., Stanescu, S.G., Gorghiu, L.M., Serban, B.C. and Buiu, O., 2023. Phytochemical Statistical Mapping of Red Grape Varieties Cultivated in Romanian Organic and Conventional Vineyards. Plants, 2023, 12(24), p.4179. https://doi.org/10.3390/plants12244179	ISI-Q1	FI/2024	4.100	AC	Plant Sciences

S24	Bumbac, M., Nicolescu, C.M., Olteanu, R.L., Gherghinoiu, S.C., Bumbac, C., Tiron, O., Manea, E.E., Radulescu, C., Gorghiu, L.M., Stanescu, S.G., Serban, B.C., Buiu, O. Preparation and Characterization of Microalgae Styrene-Butadiene Composites Using <i>Chlorella vulgaris</i> and <i>Arthrospira platensis</i> Biomass. <i>Polymers</i> 2023, 15, 1357. https://doi.org/10.3390/polym15061357	ISI-Q1	FI/2024	4.900	AP	Polymer Science
S25	Nicolescu, C.M., Bumbac, M.*, Buruleanu, C.L.*, Popescu, E.C., Stanescu, S.G., Georgescu, A.A., Toma, S.M. Biopolymers Produced by Lactic Acid Bacteria: Characterization and Food Application. <i>Polymers</i> 2023, 15, 1539. https://doi.org/10.3390/polym15061539	ISI-Q1	FI/2024	4.900	AC	Polymer Science
S31	Serban, B.C., Cobianu, C., Buiu, O., Bumbac, M.*, Dumbravescu, N., Avramescu, V., Nicolescu, C.M.*, Brezeanu, M., Radulescu, C., Craciun, G., Romanitan, C., Comanescu, F. Quaternary Oxidized Carbon Nanohorns—Based Nanohybrid as Sensing Coating for Room Temperature Resistive Humidity Monitoring. <i>Coatings</i> 2021, 11, 530. https://doi.org/10.3390/coatings11050530	ISI-Q3	FI/2024	2.800	AC	Materials Science, Coatings & Films
S34	Serban, B.C.*, Cobianu, C., Buiu, O.*, Bumbac, M.*, Dumbravescu, N., Avramescu, V., Nicolescu, C.M., Brezeanu, M., Pachiu, C., Craciun, G., Radulescu, C. Ternary Nanocomposites Based on Oxidized Carbon Nanohorns as Sensing Layers for Room Temperature Resistive Humidity Sensing. <i>Materials</i> 2021, 14, 2705. https://doi.org/10.3390/ma14112705	ISI-Q23	FI/2024	3.200	AC	Chemistry, Physical
S35	Serban, B.C.*, Cobianu, C., Buiu, O.*, Bumbac, M.*, Dumbravescu, N., Avramescu, V., Nicolescu, C.M., Brezeanu, M., Radulescu, C., Craciun, G. and Romanitan, C., 2021. Quaternary Holey Carbon Nanohorns/SnO ₂ /ZnO/PVP Nano-Hybrid as Sensing Element for Resistive-Type Humidity Sensor. <i>Coatings</i> , 11(11), p.1307. https://doi.org/10.3390/coatings11111307	ISI-Q3	FI/2024	2.800	AC	Materials Science, Coatings & Films
S37	Bumbac M., C.M. Nicolescu*, R. L. Olteanu, E.E. Manea, C.Bumbac, L.M. Gorghiu, C. Radulescu, G.Stanescu, B.C. Serban, O. Buiu, UV-VIS analysis of granular activated algae chlorophyll content, <i>Journal of Science and</i>	ISI-Q4	FI/2024	0.300	AP	Multidisciplinary Sciences

	Arts, 19, 3(48), 2021, ISSN: 1844-9581, 733-742. https://doi.org/10.46939/J.Sci.Arts-21.4-b06					
S39	Radulescu, C, Buruleanu, LC, Nicolescu, C.M., Olteanu, RL, Bumbac, M.*; Holban, GC, Simal-Gandara, J, Phytochemical Profiles, Antioxidant and Antibacterial Activities of Grape (<i>Vitis vinifera</i> L.) Seeds and Skin from Organic and Conventional Vineyards, Plants-Basel, 2223-7747, 2020, 9, 11, 1470, WOS:000593699200001. https://doi.org/10.3390/plants9111470	ISI-Q1	FI/2024	4.100	AP	Plant Sciences
S47	Bumbac M. , C. M. Nicolescu*, B. C. Șerban, O, Buiu, M. Olteanu, R. L. Olteanu, Crown Ethers and p-tert-butylcalix[4]arene mixtures at the Chloroform / Water Interface, Journal of Science and Arts, 19, 3(48), 2019, ISSN: 1844-9581, 733-742	ISI-Q4	FI/2024	0.300	AP	Multidisciplinary Sciences
S48	C. M. Nicolescu, M. Bumbac*, R. L. Olteanu, G. C. Alecu (Holban), D. N. Boboacă-Mihăescu, C. Necula, C. Rădulescu, Influence of extraction method on chemical composition from red grapes skin extract, Journal of Science and Arts, 19, 1(46), 2019, ISSN: 1844-9581, 201-208	ISI-Q4	FI/2024	0.300	AC	Multidisciplinary Sciences
S50	A.R. Caramitu, M. Bumbac*, C.M. Nicolescu, T. Zaharescu, Alkyd hybrid coatings for electrical rotating machines, Journal of Thermal Analysis and Calorimetry, 134(3), 2018, 2017-2027. https://doi.org/10.1007/s10973-018-7638-4	ISI-Q2	FI/2024	3.100	AC	Chemistry, Analytical
S52	R. L. Olteanu, C. M. Nicolescu, M. Bumbac*, I. D. Dulamă, R. M. Ion, I. R. Suica-Bunghez, Study on Critical Micelle Concentration influence in Green Synthesis of Silver Nanoparticles assisted by <i>Sapindus mukorossi</i> aqueous extract, Revista de Chimie, 69(6), 2018, ISSN: 0034-7752, 1339-1345. https://doi.org/10.37358/RC.18.6.6321	ISI-Q3	FI/2019	1.755	AC	Chemistry, Multidisciplinary
S53	M. Bumbac, R. L. Olteanu, R. M. Ion, C. M. Nicolescu*, Influence of temperature on the growth of silver nanoparticles synthesized using <i>Salvia officinalis</i> aqueous extract, Revista de Chimie, 69(8), 2018, 1934-1938. https://doi.org/10.37358/RC.18.8.6449	ISI-Q3	FI/2019	1.755	AP	Chemistry, Multidisciplinary
S54	C. M. Nicolescu, M. Bumbac*, S. Mihai, A.I. Gheboianu, M.C.Balasa, V. Filip, S. Cuculici, S. Cristea, C. Pantu, X-ray diffraction and	ISI-Q4	FI/2024	0.300	AC	Multidisciplinary Sciences

	nanoindentation characterization of bone tissue affected by severe osteoarthritis, Journal of Sciences and Arts, 1(42), 2018, ISSN: 1844-9581, 265-274					
S55	B. C. Șerban, O. Buiu, M. Bumbac*, C. M. Nicolescu, C. Cobianu, Chemistry - the journey from central science to chemophobia how should we address this?, Journal of Science and Arts, 4, 2018, ISSN: 1844-9581, 1045-1060	ISI-Q4	FI/2024	0.300	AC	Multidisciplinary Sciences
S56	M. Bumbac, C. M. Nicolescu, B. C. Șerban, O. Buiu, M. Olteanu, R. L. Olteanu, The interfacial behavior of calixarene and crown ethers at the air/water and chloroform/water interface, Journal of Sciences and Arts, 2(43), 2018, ISSN: 1844-9581, 459-470	ISI-Q4	FI/2024	0.300	AP	Multidisciplinary Sciences
S57	B.C. Șerban, O. Buiu, M. Bumbac*, C. M. Nicolescu, C. Cobianu, Chemical compounds in the online environment: Quo Vadis?, Journal of Sciences and Arts, 3(44), 2018, ISSN: 1844-9581, 1045-1060, 737-750	ISI-Q4	FI/2024	0.300	AC	Multidisciplinary Sciences
S60	M. Bumbac, G. Busuioc, C. M. Nicolescu*, A.I. Gheboianu, I. David, C. Bumbac, Influence of Lead Toxicity on Growth and Antioxidant Enzyme Activity for Salix alba Offshoots in Hydroponic Cultures with Different Levels of Pollutant, Journal of Sciences and Arts, 2017, 4(44), ISSN: 1844-9581, 803-814	ISI-Q4	FI/2024	0.300	AP	Multidisciplinary Sciences
S61	M. Bumbac, T. Zaharescu, C. M. Nicolescu*, Thermal and Radiation Stability of Alkyd based Coatings used as Insulators in Electrical Rotating Machines, Journal of Sciences and Arts, 1(38), 2017, ISSN: 1844-9581, 459-470	ISI-Q4	FI/2024	0.300	AP	Multidisciplinary Sciences
S67	Bumbac, M., Șerban, B., Luca, C., Nechifor, G. and Voicu, S.I., Studies regarding the synergistic effect in the extraction of alkaline metal Na ⁺ and K ⁺ cations in the presence of a mixture of p-tert-butylcalix [4] arene-ether crown. Revista de chimie, 2006, 57(9), 927-930	ISI-Q3	FI/2019	1.755	AP	Chemistry, Multidisciplinary
S68	Bumbac, M., Luca, C., Jipa, S., Zaharescu, T. and Șerban, B., 2006. The thermal stabilization effect of benzo crown derivatives in low density polyethylene. Revista de chimie, 2006, 57(12), 1193-1196	ISI-Q3	FI/2019	1.755	AP	Chemistry, Multidisciplinary

S70	Bumbac, M., Gorghiu, L.M., Dumitrescu, C., Jipa, S., Setnescu, R., Zaharescu, T. and Mihalcea, I., Investigation of rosemary extracts for the protection of polyethylene against thermal oxidation, Journal of Sciences and Arts, 2006, 16, pp. 55-59	ISI-Q4	FI/2024	0.300	AP	Multidisciplinary Sciences
S72	Bumbac, M., Gorghiu, L., Dumitrescu, C., Jipa, S. and Setnescu, R., Investigation of rosemary and sage extracts for the protection of polyethylene against thermal oxidation. Materiale Plastice, 2005 42(4), 313-316	ISI-Q4	FI/2024	0.700	AP	Materials Science, Multidisciplinary
Total		34				

3) FIC – factorul de impact cumulat

FIC (AP + AC+ fractii) – 97,06 (Tabel 3)

FIC (AP + fractii) – 50,72 (Tabel 3)

Nr articol	Articol	referinta WOS	Factor de impact	tip autorat	An publicare	FIC _{AP} + FIC _{AC} + fractii	FIC _{AP} + fractii
S1	Craciun, A., Zaharescu, T., Bumbac, M., Nicolescu, C. M., & Mangalagiu, V. (2026). Chemiluminescence Assessment Of Oxidative Stability In Barium Titanate--Filled Styrene-Based Composites For Medical Applications. Journal of Science and Arts, 26(1), 221-230.	FI/2024	0.3	nu AP/AC	2026	0.06	0.06
S2	Zaharescu, T., Bumbac, M.*, Nicolescu, C. M.", Craciun, A., & Mirea, R. (2026). Oxidation Strength of PLA Filled with Algal Biomass and Rosemary Extract Powders for Food-Safe Handling, Polymers, 2026, 18(4), 504. https://doi.org/10.3390/polym18040504	FI/2024	4.900	AC	2026	4.90	0.98
S3	Serban, B. C., Dumbravescu, N., Bui, O., Bumbac, M.*, Dumbravescu, C., Brezeanu, M., ... & Brincoveanu, O. (2025). Carbon Nano-Onions–Polyvinyl Alcohol Nanocomposite for Resistive Monitoring of Relative Humidity. Sensors, 25(10), 3047. https://doi.org/10.3390/s25103047	FI/2024	3.500	AC	2025	3.50	0.35

S4	Zaharescu, T., Bumbac, M.*, Nicolescu, C. M.*, Stelescu, M. D., Borbath, T., & Borbath, I. (2025). Evaluation of γ -Irradiation Effects on EPDM/SBS Blends for Durability and Recycling Potential. <i>Polymers</i> , 17(10), 1314. https://doi.org/10.3390/polym17101314	FI/2024	4.900	AC	2025	4.90	0.82
S5	Serban, B. C., Buiu, O., Bumbac, M.*, Dumbrăvescu, N., Brezeanu, M., Matei-Gabriel, U., ... & Cobianu, C. (2025). Carbon nanohorns and their nanohybrid/nanocomposites as sensing layers for humidity sensors—a review. <i>Polymers</i> , 17(16), 2198. https://doi.org/10.3390/polym17162198	FI/2024	4.900	AC	2025	4.90	0.54
S6	Mindroiu, V. M., Dumitriu, C., Bumbac, M., & Nicolescu, C. M. (2025). Electrochromic behaviour by lithiation process of nanocomposites based on WO ₃ nanofibers/electrochemically reduced TiO ₂ . <i>Materials Science and Engineering: B</i> , 319, 118302. https://doi.org/10.1016/j.mseb.2025.118302	FI/2024	4.600	nu AP/AC	2025	1.15	1.15
S7	Serban, B.-C., Dumbrăvescu, N., Buiu, O., Bumbac, M., Brezeanu, M., Pachiu, C., Nicolescu, C.-M., Cobianu, C., Romanitan, C., Tucurean, V., Carbon Nano-Onions-Based Matrix Nanocomposite as Sensing Film for Resistive Humidity Sensor, <i>Romanian Journal of Information Science and Technology</i> , 2025, 28 (1), 77–88. https://doi.org/10.59277/ROMJIST.2025.1.07	FI/2024	3.900	nu AP/AC	2025	0.39	0.39
S8	Serban, B.-C., Dumbrăvescu, N., Buiu, O., Bumbac, M*, Brezeanu, M., Pachiu, C., Nicolescu, C.-M., Brancoveanu, O., & Cobianu, C. Holey Carbon Nanohorns-Based Nanohybrid as Sensing Layer for Resistive Ethanol Sensor. <i>Sensors</i> , 2025, 25(5), 1299. https://doi.org/10.3390/s25051299	FI/2024	3.500	AC	2025	3.50	0.39

S9	Constantin, M. A., Constantin, L. A., Constantinov, F. D., Badescu, V. R., Nicolescu, C. M., & Bumbac, M. Fly Ash Waste Conversion to Zeolite and Its Application for Cd ²⁺ and Ni ²⁺ Adsorption from Aqueous Solutions. <i>Water</i> , 2025, 17(4), 593. https://doi.org/10.3390/w17040593	FI/2024	3.000	nu AP/AC	2025	0.50	0.50
S10	Bumbac, M., Zaharescu, T., Nicolescu, C.M.*, Borbath, T. and Borbath, I., Chemiluminescence-based evaluation of styrene block copolymers' recyclability. <i>Scientific Reports</i> , 2024, 14(1), p.28221. https://doi.org/10.1038/s41598-024-79193-6	FI/2024	3.900	AP	2024	3.90	3.90
S11	Serban, B.C., Buiu, O., Vescu, N.D., Anu, M.B., Cobianu, C., Pachiu, C., Brancoveanu, O., Bumbac, M., Nicolescu, C.M. and Radulescu, C., Carbon nanohorns-based nanocomposites as sensing layers for room temperature resistive oxygen sensing: preliminary results. <i>Journal of Science and Arts</i> , 2024, 24(1), pp.199-210. https://doi.org/10.46939/J.Sci.Arts-24.1-b02	FI/2024	0.300	nu AP/AC	2024	0.03	0.03
S12	Serban, B.C., Buiu, O., Dumbravescu, N., Brezeanu, M., Cobianu, C., Bumbac, M. And Nicolescu, M., Some Considerations about the Sensing Mechanisms and Electrical Response of Carbon Nanohorns-based Gas Sensors. <i>Romanian Journal Of Information Science And Technology</i> , 2024, 27(2), pp.137-150. https://doi.org/10.59277/ROMJIST.2024.2.02	FI/2024	3.900	nu AP/AC	2024	0.56	0.56
S13	Constantin, M.A., Constantin, L.A., Ionescu, I.A., Nicolescu, C.M., Bumbac, M. and Tiron, O., Performance of a Solar-Driven Photocatalytic Membrane Reactor for Municipal Wastewater Treatment. <i>Processes</i> , 2024,12(3), p.617. https://doi.org/10.3390/pr12030617	FI/2024	2.800	nu AP/AC	2024	0.47	0.47

S14	Serban, B.C., Buiu, O., Bumbac, M.*, Dumbravescu, N., Pachiu, C., Brezeanu, M., Craciun, G., Nicolescu, C.M., Diaconescu, V. and Cobianu, C., Ternary Holey Carbon Nanohorn/Potassium Chloride/Polyvinylpyrrolidone Nanohybrid as Sensing Film for Resistive Humidity Sensor. Coatings, 2024, 14(4), p.517. https://doi.org/10.3390/coatings14040517	FI/2024	2.800	AC	2024	2.80	0.28
S15	Bumbac, M., Nicolescu, C.M., Zaharescu, T., Bumbac, C., Manea, E.E., Ionescu, I.A., Gurgu, I.V., Serban, B.C., Buiu, O. and Dumitrescu, C., Influence of Biogenic Material Content on the Biodegradability of Styrene-Butadiene Composites with Incorporated Chlorella vulgaris Biomass. Polymers, 2024, 16(9), p.1241. https://doi.org/10.3390/polym16091241	FI/2024	4.900	AP	2024	4.90	4.90
S16	Bumbac, M., Nicolescu, C.M., Zaharescu, T., Gurgu, I.V., Bumbac, C., Manea, E.E., Ionescu, I.A., Serban, B.C., Buiu, O. and Dumitrescu, C., 2024. Biodegradation Study of Styrene–Butadiene Composites with Incorporated Arthrospira platensis Biomass. Polymers 2024, 16, 1218. https://doi.org/10.3390/polym16091218	FI/2024	4.900	AP	2024	4.90	4.90
S17	Zaharescu, T., Bumbac, M*. and Nicolescu, C.M., 2024. Stability effects of added biomass on microalgae styrene–butadiene–styrene composites. Journal of Thermal Analysis and Calorimetry, pp.1-13. https://doi.org/10.1007/s10973-024-13419-7	FI/2024	3.100	AC	2024	3.10	1.03
S18	Manea, E.E., Bumbac, C., Dinu, L.R., Bumbac, M. and Nicolescu, C.M., Composting as a sustainable solution for organic solid waste management: current practices and potential improvements. Sustainability, 2024, 16(15), p.6329. https://doi.org/10.3390/su16156329	FI/2024	3.300	nu AP/AC	2024	0.66	0.66

S19	Zaharescu, T., Bumbac, M.*., Nicolescu, C.M. and Blanco, I., The contribution of silica nanoparticles to the stability of styrene-isoprene-styrene triblock copolymer (SIS). II. Energetic peculiarities. Radiation Physics and Chemistry, 2024, 215, p.111318. https://doi.org/10.1016/j.radphyschem.2023.111318	FI/2024	3.300	AC	2024	3.30	0.83
S20	Serban, B.C., Dumbravescu, N., Buiu, O., Bumbac, M., Pachiu, C., Brezeanu, M., Craciun, G., Nicolescu, C.M., Marinescu, R. and Cobianu, C., 2024, October. Carbon Nanohorns-PVP Nanocomposite As Sensing Layer For Resistive Humidity Monitoring: Preliminary Results. In 2024 International Semiconductor Conference (CAS) 2024 (pp. 39-42). IEEE. https://doi.org/10.1109/CAS62834.2024.10736867	FI/2024	0.000	nu AP/AC	2024	0.00	0.00
S21	Serban, B.C., Dumbravescu, N., Buiu, O., Bumbac, M., Brezeanu, M., Pachiu, C., Nicolescu, C.M. and Diaconescu, V., 2024, October. Resistive Humidity Sensor Based on Onion-Like Carbon-PVA Composite Sensing Film. In 2024 International Semiconductor Conference (CAS) 2024 (pp. 65-68). IEEE. http://dx.doi.org/10.1109/CAS62834.2024.10736692	FI/2024	0.000	nu AP/AC	2024	0.00	0.00
S22	Stănescu, S.G., Nicolescu, C.M., Bumbac, M., Olteanu, R.L. and Gurgu, I.V., Economic Evaluation of Microalgae Production Costs: A Perspective on Sustainable Development. Springer Proceedings in Business and EconomicsPages 215 - 2342024 13th Griffiths School of Management and IT Annual Conference on Business, Entrepreneurship and Ethics, GSMAC 2023 Springer Proceedings in Business and Economics, 2024, pp. 215–234 https://link.springer.com/chapter/10.1007/978-3-031-59858-6_15	FI/2024	0.000	nu AP/AC	2024	0.00	0.00

S23	Nicolescu, C.M., Bumbac, M*, Radulescu, C., Buruleanu, C.L., Olteanu, R.L., Stanescu, S.G., Gorghiu, L.M., Serban, B.C. and Buiu, O., 2023. Phytochemical Statistical Mapping of Red Grape Varieties Cultivated in Romanian Organic and Conventional Vineyards. Plants, 2023, 12(24), p.4179. https://doi.org/10.3390/plants12244179	FI/2024	4.100	AC	2023	4.10	0.46
S24	Bumbac, M., Nicolescu, C.M., Olteanu, R.L., Gherghinoiu, S.C., Bumbac, C., Tiron, O., Manea, E.E., Radulescu, C., Gorghiu, L.M., Stanescu, S.G., Serban, B.C., Buiu, O. Preparation and Characterization of Microalgae Styrene-Butadiene Composites Using Chlorella vulgaris and Arthrospira platensis Biomass. Polymers 2023, 15, 1357. https://doi.org/10.3390/polym15061357	FI/2024	4.900	AP	2023	4.90	4.90
S25	Nicolescu, C.M., Bumbac, M.*, Buruleanu, C.L.*, Popescu, E.C., Stanescu, S.G., Georgescu, A.A., Toma, S.M. Biopolymers Produced by Lactic Acid Bacteria: Characterization and Food Application. Polymers 2023, 15, 1539. https://doi.org/10.3390/polym15061539	FI/2024	4.900	AC	2023	4.90	0.70
S26	Olteanu, R.L., Radulescu, C., Bretcan, P., Zinicovscaia, I., Culicov, O., Vergel, K., Tanislav, D., Bumbac, M., Nicolescu, C.M., Dulama, I.D., Gorghiu, L.M. Geochemical Responses to Natural and Anthropogenic Settings in Salt Lakes Sediments from North-Eastern Romanian Plain. Int. J. Environ. Res. Public Health 2023, 20, 935. https://doi.org/10.3390/ijerph20020935	FI/2021	4.614	nu AP/AC	2023	0.42	0.42
S27	Serban, B.C., Dumbravescu, N., Buiu, O., Bumbac, M., Brezeanu, M., Cobianu, C., Marinescu, R., Pachiu, C., Avramescu, V., Nicolescu, C.M. and Comanescu, F., October. Quaternary Oxidized Carbon Nanohorns-Based Nanohybrid as Sensing Layer for Room Temperature	FI/2024	0.000	nu AP/AC	2023	0.00	0.00

	Resistive Ethanol Sensing. In 2023 International Semiconductor Conference (CAS) 2023, (pp. 67-70). IEEE. https://doi.org/10.1109/CAS59036.2023.10303659						
S28	Serban, B.C., Dumbravescu, N., Buiu, O., Bumbac, M., Brezeanu, M., Cobianu, C., Marinescu, R., Pachiu, C., Avramescu, V. and Nicolescu, C.M., October. Oxidized Carbon Nanohorns/KCl/PVP Nanohybrid as Sensing Layer for Chemiresistive Humidity Sensor. In 2023 International Semiconductor Conference (CAS) 2023, (pp. 75-78). IEEE. https://doi.org/10.1109/CAS59036.2023.10303649	FI/2024	0.000	nu AP/AC	2023	0.00	0.00
S29	Radulescu, C., Tanase, M.N., Chilian, A., Popescu, I.V., Bancuta, O.R., Dulama, I.D., Bumbac, M., Nicolescu, C.M., Olteanu, R.L. and Bucurica, I.A., Associated health risks from heavy metal-laden influent/effluent from wastewater treatment plant, Journal of Science and Arts, 2022, 22(3), pp.693-710. https://doi.org/10.46939/J.Sci.Arts-22.3-b01	FI/2024	0.300	nu AP/AC	2022	0.03	0.03
S30	Radulescu, C., Olteanu, R.L., Nicolescu, C.M., Bumbac, M., Buruleanu, L.C., Holban, G.C. Vibrational Spectroscopy Combined with Chemometrics as Tool for Discriminating Organic vs. Conventional Culture Systems for Red Grape Extracts. Foods, 2021, 10, 1856. https://doi.org/10.3390/foods10081856	FI/2024	5.100	nu AP/AC	2021	0.85	0.85
S31	Serban, B.C., Cobianu, C., Buiu, O., Bumbac, M.*, Dumbravescu, N., Avramescu, V., Nicolescu, C.M.*, Brezeanu, M., Radulescu, C., Craciun, G., Romanitan, C., Comanescu, F. Quaternary Oxidized Carbon Nanohorns—Based Nanohybrid as Sensing Coating for Room Temperature Resistive Humidity Monitoring. Coatings 2021, 11, 530. https://doi.org/10.3390/coatings11050530	FI/2024	2.800	AC	2021	2.80	0.23

S32	Serban B.C., Buiu O., Dumbravescu N., Cobianu C., Avramescu V., Brezeanu M., Bumbac M., Pachiu C., Nicolescu C.M., Oxidized Carbon Nanohorn - Hydrophilic Polymer Nanocomposite as the Resistive Sensing Layer for Relative Humidity, Analytical Letters, 2021, 54:3, 527-540. https://doi.org/10.1080/00032719.2020.1772805	FI/2024	1.800	nu AP/AC	2021	0.20	0.20
S33	Serban, B.C., Cobianu, C., Dumbravescu, N., Buiu, O., Bumbac, M., Nicolescu, C.M., Cobianu, C., Brezeanu, M., Pachiu, C. and Serbanescu, M., 2021. Electrical percolation threshold and size effects in polyvinylpyrrolidone-oxidized single-wall carbon nanohorn nanocomposite: The impact for relative humidity resistive sensors design. Sensors, 21(4), p.1435. https://doi.org/10.3390/s21041435	FI/2024	3.500	nu AP/AC	2021	0.35	0.35
S34	Serban, B.C.*, Cobianu, C., Buiu, O.*, Bumbac, M.*, Dumbravescu, N., Avramescu, V., Nicolescu, C.M., Brezeanu, M., Pachiu, C., Craciun, G., Radulescu, C. Ternary Nanocomposites Based on Oxidized Carbon Nanohorns as Sensing Layers for Room Temperature Resistive Humidity Sensing. Materials 2021, 14, 2705. https://doi.org/10.3390/ma14112705	FI/2024	3.200	AC	2021	3.20	0.29
S35	Serban, B.C.*, Cobianu, C., Buiu, O.*, Bumbac, M.*, Dumbravescu, N., Avramescu, V., Nicolescu, C.M., Brezeanu, M., Radulescu, C., Craciun, G. and Romanitan, C., 2021. Quaternary Holey Carbon Nanohorns/SnO2/ZnO/PVP Nano-Hybrid as Sensing Element for Resistive-Type Humidity Sensor. Coatings, 11(11), p.1307. https://doi.org/10.3390/coatings11111307	FI/2024	2.800	AC	2021	2.80	0.25
S36	Serban, B.C., Buiu, O., Bumbac, M., Dumbravescu, N., Avramescu, V., Brezeanu, M., Radulescu, C., Craciun, G., Nicolescu, C.M., Romanitan, C. and Comanescu, F., 2021. Ternary Holey	FI/2024	2.800	nu AP/AC	2021	0.25	0.25

	Carbon Nanohorns/TiO ₂ /PVP Nanohybrids as Sensing Films for Resistive Humidity Sensors. Coatings, 11(9), p.1065, WOS:000699432300001. https://doi.org/10.3390/coatings11091065						
S37	Bumbac M., C.M. Nicolescu*, R. L. Olteanu, E.E. Manea, C.Bumbac, L.M. Gorghiu, C. Radulescu, G.Stanescu, B.C. Serban, O. Buiu, UV-VIS analysis of granular activated algae chlorophyll content, Journal of Science and Arts, 19, 3(48), 2021, ISSN: 1844-9581, 733-742. https://doi.org/10.46939/J.Sci.Arts-21.4-b06	FI/2024	0.300	AP	2021	0.30	0.30
S38	Cobianu, C, Serban, BC, Dumbravescu, N, Buiu, O, Avramescu, V, Pachiu, C, Bitu, B, Bumbac, M, Nicolescu, C.M., Cobianu, C, Organic-Inorganic Ternary Nanohybrids of Single-Walled Carbon Nanohorns for Room Temperature Chemiresistive Ethanol Detection, Nanomaterials, 2079-4991, 2020, 10, 12, 2552, WOS:000602421800001. https://doi.org/10.3390/nano10122552	FI/2024	4.300	nu AP/AC	2020	0.43	0.43
S39	Radulescu, C, Buruleanu, LC, Nicolescu, C.M., Olteanu, RL, Bumbac, M.*, Holban, GC, Simal-Gandara, J, Phytochemical Profiles, Antioxidant and Antibacterial Activities of Grape (Vitis vinifera L.) Seeds and Skin from Organic and Conventional Vineyards, Plants-Basel, 2223-7747, 2020, 9, 11, 1470, WOS:000593699200001. https://doi.org/10.3390/plants9111470	FI/2024	4.100	AP	2020	4.10	4.10
S40	Radulescu, C, Olteanu, RL, Stihi, C, Florescu, M, Stirbescu, RM, Stanescu, SG, Nicolescu, CM, Bumbac, M, Chemometrics-based vibrational spectroscopy for Juglandis semen extracts investigation, Journal Of Chemometrics, 0886-9383, 1099-128X, 2020, 34, 6, e3234, WOS:000538168900007. https://doi.org/10.1002/cem.3234	FI/2024	2.100	nu AP/AC	2020	0.26	0.26

S41	Eliescu, A, Georgescu, AA, Nicolescu, CM, Bumbac, M, Cioatera, N, Mureseanu, M, Buruleanu, LC, Biosorption of Pb(II) from Aqueous Solution Using Mushroom (Pleurotus ostreatus) Biomass and Spent Mushroom Substrate, Analytical Letters, 0003-2719, 1532-236X, 2020, 53, 14, 2292, 2319, WOS:000520149600001. https://doi.org/10.1080/00032719.2020.1740722	FI/2024	1.800	nu AP/AC	2020	0.26	0.26
S42	Serban, BC, Buiu, O, Dumbravescu, N, Cobianu, C, Avramescu, V, Brezeanu, M, Bumbac, M, Nicolescu, C.M., Oxidized Carbon Nanohorns as Novel Sensing Layer for Resistive Humidity Sensor, Acta Chimica Slovenica, 1318-0207, 1580-3155, 2020, 67, 2, 469, 475, WOS:000541748400012. https://doi.org/10.17344/acsi.2019.5415	FI/2024	1.300	nu AP/AC	2020	0.16	0.16
S43	Serban, B.C., Buiu, O, Dumbravescu, N, Cobianu, C, Avramescu, V, Brezeanu, M, Bumbac, M, Nicolescu, CM, Optimization of Sensing Layers Selection Process for Relative Humidity Sensors, Romanian Journal Of Information Science And Technology, 1453-8245, 2020, 23, 1, 93, 104, WOS:000508927500006	FI/2024	3.900	nu AP/AC	2020	0.49	0.49
S44	A. Tabacaru, R.M. Dinica, M. Cudalbeanu, C. M. Nicolescu, Bumbac M., Catalytic Effect of Photoluminescent Zinc Oxide Nanoparticles Formed in the Presence of Quaternary Ammonium Salts, Materials, 2019, 12(13), 2066, WOS 000477043900030. https://doi.org/10.3390/ma12132066	FI/2024	3.200	nu AP/AC	2019	0.64	0.64
S45	A. A. Georgescu, A. Eliescu, C.M. Nicolescu, Bumbac M., N. Cioatera. M. Mureşanu, L. C. Buruleanu, Performance of Pleurotus ostreatus Mushrooms and Spent Substrate for the Biosorption of Cd(II) From Aqueous Solution, Analytical Letters, 52(13), 2019, 2007-2027. https://doi.org/10.1080/00032719.2019.1590380	FI/2024	1.800	nu AP/AC	2019	0.26	0.26

S46	Bucurica, I.A., Radulescu, C., Poinescu, A.A., Popescu, I., Dulama, I.D., Nicolescu, C.M., Teodorescu, S., Bumbac, M., Pehoiu, G. and Murarescu, O., 2019. Morphology and Physico-Chemical Characteristics of an Iron Fragment from Chaco Province. Romanian Journal of Physics, 2019, 64, 906	FI/2023	1.900	nu AP/AC	2019	0.19	0.19
S47	Bumbac M. , C. M. Nicolescu*, B. C. Șerban, O, Buiu, M. Olteanu, R. L. Olteanu, Crown Ethers and p-tert-butylcalix[4]arene mixtures at the Chloroform / Water Interface, Journal of Science and Arts, 19, 3(48), 2019, ISSN: 1844-9581, 733-742	FI/2024	0.300	AP	2019	0.30	0.30
S48	C. M. Nicolescu, M. Bumbac*, R. L. Olteanu, G. C. Alecu (Holban), D. N. Boboacă-Mihăescu, C. Necula, C. Rădulescu, Influence of extraction method on chemical composition from red grapes skin extract, Journal of Science and Arts, 19, 1(46), 2019, ISSN: 1844-9581, 201-208	FI/2024	0.300	AC	2019	0.30	0.04
S49	B. C. Șerban, O. Buiu, C. Cobianu, M. Bumbac, C. M. Nicolescu, About Supramolecular Chemistry - How a Modern and revolutionary scientific concept can be presented to the students as chemistry of every day, Journal of Science and Arts, 2, 2019, ISSN: 1844-9581, 455-468	FI/2024	0.300	nu AP/AC	2019	0.06	0.06
S50	A.R. Caramitu, M. Bumbac*, C.M. Nicolescu, T. Zaharescu, Alkyd hybrid coatings for electrical rotating machines, Journal of Thermal Analysis and Calorimetry, 134(3), 2018, 2017-2027. https://doi.org/10.1007/s10973-018-7638-4	FI/2024	3.100	AC	2018	3.10	0.78
S51	B. C. Șerban, O. Buiu, C. Cobianu, M. Brezeanu, M. Bumbac, C.M. Nicolescu, Nanostructured Semiconducting Metal Oxides for Ammonia Sensors. A Novel HSAB Sensing Paradigm, Acta Chimica Slovenica, 65(4), 2018, 1014-1021. https://doi.org/10.17344/acsi.2018.4564	FI/2024	1.300	nu AP/AC	2018	0.22	0.22

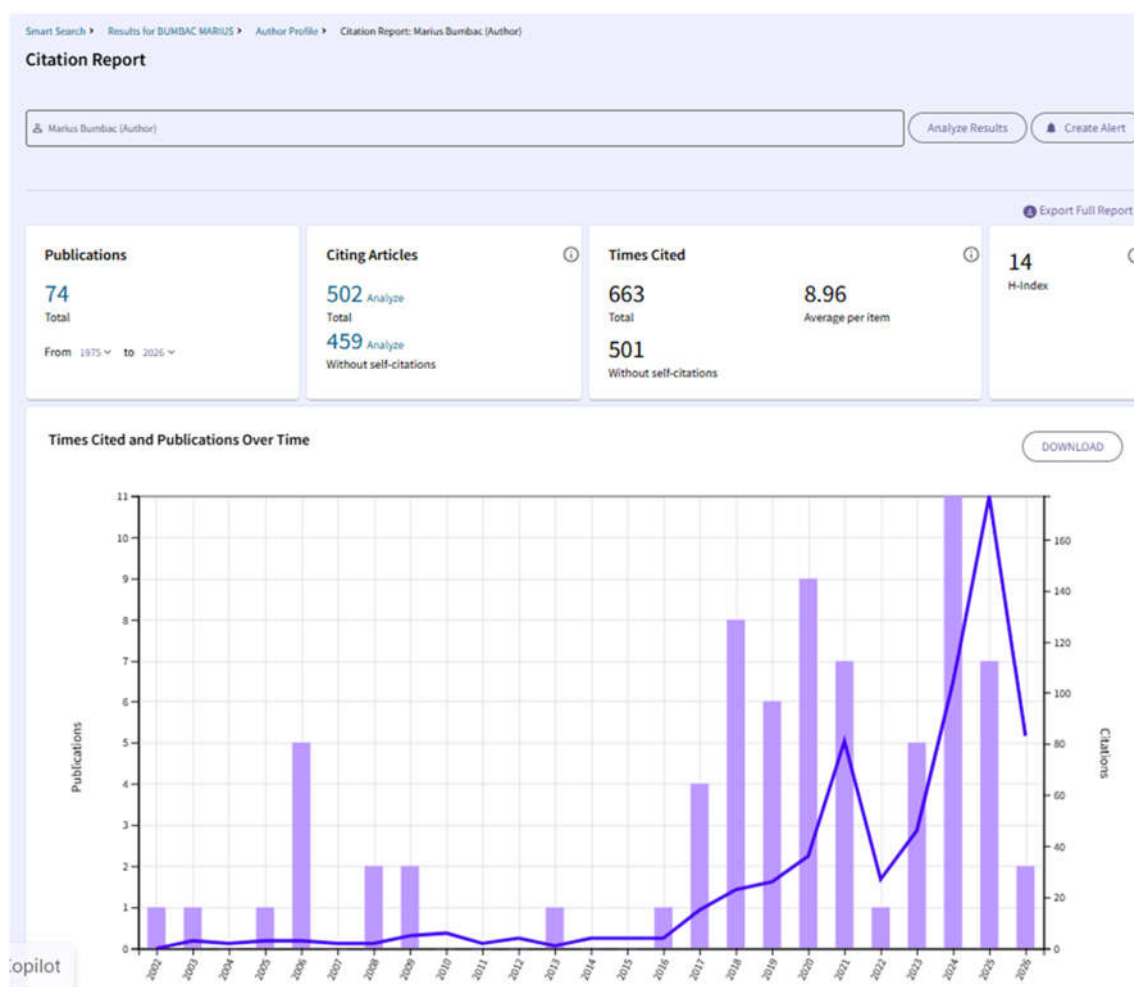
S52	R. L. Olteanu, C. M. Nicolescu, M. Bumbac*, I. D. Dulamă, R. M. Ion, I. R. Suica-Bunghez, Study on Critical Micelle Concentration influence in Green Synthesis of Silver Nanoparticles assisted by <i>Sapindus mukorossi</i> aqueous extract, <i>Revista de Chimie</i> , 69(6), 2018, ISSN: 0034-7752, 1339-1345. https://doi.org/10.37358/RC.18.6.6321	FI/2019	1.755	AC	2018	1.76	0.29
S53	M. Bumbac, R. L. Olteanu, R. M. Ion, C. M. Nicolescu*, Influence of temperature on the growth of silver nanoparticles synthesized using <i>Salvia officinalis</i> aqueous extract, <i>Revista de Chimie</i> , 69(8), 2018, 1934-1938. https://doi.org/10.37358/RC.18.8.6449	FI/2019	1.755	AP	2018	1.76	1.76
S54	C. M. Nicolescu, M. Bumbac*, S. Mihai, A.I. Gheboianu, M.C.Balasa, V. Filip, S. Cuculici, S. Cristea, C. Pantu, X-ray diffraction and nanoindentation characterization of bone tissue affected by severe osteoarthritis, <i>Journal of Sciences and Arts</i> , 1(42), 2018, ISSN: 1844-9581, 265-274	FI/2024	0.300	AC	2018	0.30	0.03
S55	B. C. Șerban, O. Buiu, M. Bumbac*, C. M. Nicolescu, C. Cobianu, Chemistry - the journey from central science to chemophobia how should we address this?, <i>Journal of Science and Arts</i> , 4, 2018, ISSN: 1844-9581, 1045-1060	FI/2024	0.300	AC	2018	0.30	0.06
S56	M. Bumbac, C. M. Nicolescu, B. C. Șerban, O. Buiu, M. Olteanu, R. L. Olteanu, The interfacial behavior of calixarene and crown ethers at the air/water and chloroform/water interface, <i>Journal of Sciences and Arts</i> , 2(43), 2018, ISSN: 1844-9581, 459-470	FI/2024	0.300	AP	2018	0.30	0.30
S57	B.C. Șerban, O. Buiu, M. Bumbac*, C. M. Nicolescu, C. Cobianu, Chemical compounds in the online environment: Quo Vadis?, <i>Journal of Sciences and Arts</i> , 3(44), 2018, ISSN: 1844-9581, 1045-1060, 737-750	FI/2024	0.300	AC	2018	0.30	0.06
S58	C. M. Nicolescu, R. L. Olteanu, M. Bumbac, Growth Dynamics Study of Silver Nanoparticles Obtained by Green Synthesis using <i>Salvia officinalis</i> Extract,	FI/2024	1.800	nu AP/AC	2017	0.60	0.60

	Analytical Letters, 50(17), 2017, 2802-2821, https://doi.org/10.1080/00032719.2017.1325895						
S59	R. L. Olteanu, C. M. Nicolescu, M. Bumbac, Influence of Phytochemical Reductive Capacity on Ultraviolet–visible Spectroscopic Behavior of Silver Nanoparticles, Analytical Letters, 50(17), 2017, 2786-2801. https://doi.org/10.1080/00032719.2017.1298119	FI/2024	1.800	nu AP/AC	2017	0.60	0.60
S60	M. Bumbac, G. Busuioc, C. M. Nicolescu*, A.I. Gheboianu, I. David, C. Bumbac, Influence of Lead Toxicity on Growth and Antioxidant Enzyme Activity for Salix alba Offshoots in Hydroponic Cultures with Different Levels of Pollutant, Journal of Sciences and Arts, 2017, 4(44), ISSN: 1844-9581, 803-814	FI/2024	0.300	AP	2017	0.30	0.30
S61	M. Bumbac, T. Zaharescu, C. M. Nicolescu*, Thermal and Radiation Stability of Alkyd based Coatings used as Insulators in Electrical Rotating Machines, Journal of Sciences and Arts, 1(38), 2017, ISSN: 1844-9581, 459-470	FI/2024	0.300	AP	2017	0.30	0.30
S62	Setnescu, T., Bancuta, I., Setnescu, R., Bancuta, R., Chilian, A., Bumbac, M., Chelărescu, E.D., Culicov, O. and Frontasyeva, M., Characterization of some therapeutic muds collected at different sites in Roumania. Rev. Roum. Chim, 2013, 58(7-8), pp.599-610	FI/2024	0.600	nu AP/AC	2013	0.07	0.07
S63	Dumitrescu, C., Olteanu, R.L., Bumbac, M. and Gorghiu, L.M., Antioxidant effect of some flavonoids on organic substrate. Revista de Chimie, 2009, 60(4), pp.329-31	FI/2019	1.755	nu AP/AC	2009	0.44	0.44
S64	Jipa, S., Zaharescu, T., Kappel, W., Dăneț, A.F., Popa, C.V., Bumbac, M., Gorghiu, L.M. and Maris, A.M., The effects of γ -irradiation on the antioxidant activity of rosemary extract. Optoelectron. Adv. Mater. Rapid Commun, 2009, 3, 1315-1320	FI/2024	0.400	nu AP/AC	2009	0.05	0.05

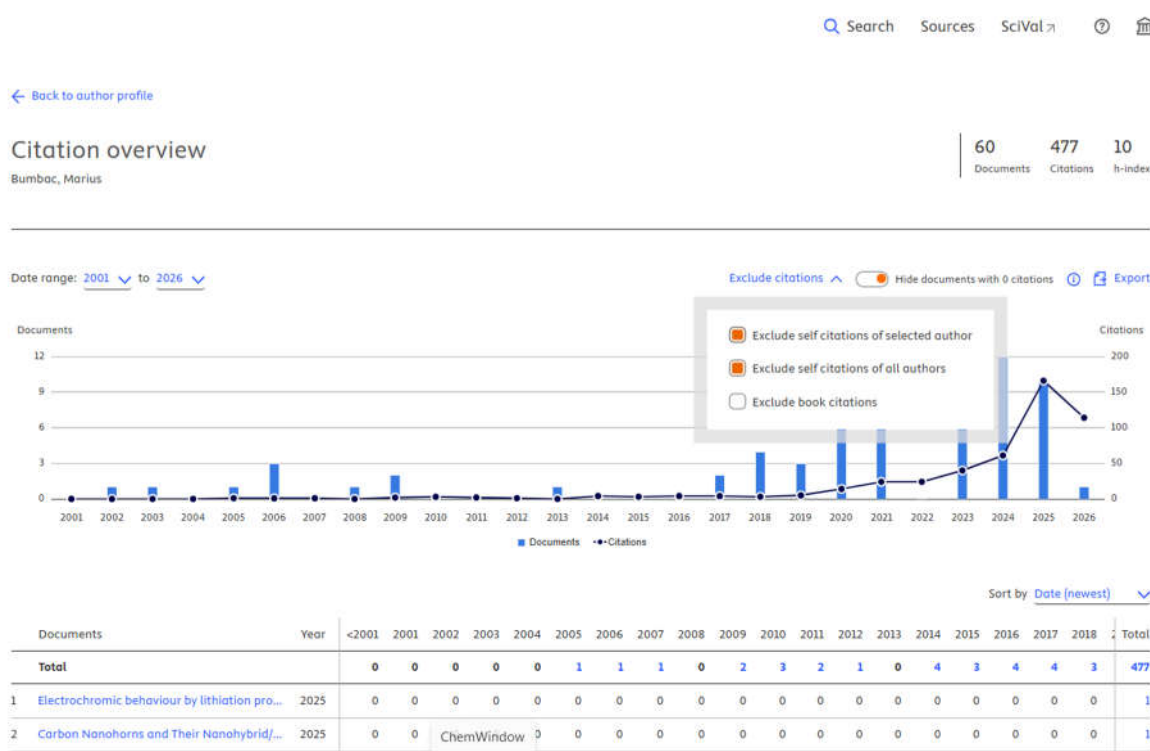
S65	Zaharescu T, Jipa S, Bumbac M, Gorghiu M. L., Dumitrescu C. Compatibilization of rubber blends by γ -irradiation processing. applied sciences on environmental and materials study. Journal of Sciences and Arts, 2008, pp. 294-300	FI/2024	0.300	nu AP/AC	2008	0.06	0.06
S66	Zaharescu, T., Jipa, S., Kappel, W. and Bumbac, M., 2008. Radiation stability of poly (ethylenevinylacetate) stabilized with natural extract of rosemary. Optoelectron Adv Mater— Rapid Commun, 2008, 2, 450-452	FI/2024	0.400	nu AP/AC	2008	0.10	0.10
S67	Bumbac, M., Serban, B., Luca, C., Nechifor, G. and Voicu, S.I., Studies regarding the synergistic effect in the extraction of alkaline metal Na ⁺ and K ⁺ cations in the presence of a mixture of p-tert-butylcalix [4] arene–ether crown. Revista de chimie, 2006, 57(9), 927-930	FI/2019	1.755	AP	2006	1.76	1.76
S68	Bumbac, M., Luca, C., Jipa, S., Zaharescu, T. and Serban, B., 2006. The thermal stabilization effect of benzo crown derivatives in low density polyethylene. Revista de chimie, 2006, 57(12), 1193-1196	FI/2019	1.755	AP	2006	1.76	1.76
S69	Jipa, S., Gorghiu, L.M., Dumitrescu, C., Bumbac, M., Olteanu, R.L., Zaharescu, T. and Cuthon-Gourves, H., Antioxidation activity of several diphosphonates in thermooxidative stability of LDPE. Journal of optoelectronics and advanced materials, 2006, 8(2), p.654	FI/2024	0.500	nu AP/AC	2006	0.07	0.07
S70	Bumbac, M., Gorghiu, L.M., Dumitrescu, C., Jipa, S., Setnescu, R., Zaharescu, T. and Mihalcea, I., Investigation of rosemary extracts for the protection of polyethylene against thermal oxidation, Journal of Sciences and Arts, 2006, 16, pp. 55-59	FI/2024	0.300	AP	2006	0.30	0.30
S71	Jipa, S., Kappel, W., Zaharescu, T., Setnescu, R., Olteanu, R. L., Bumbac, M., increases of salt solubility in magnetic treated water as studied by lyoluminescence method, Journal of Sciences and Arts, 2006, 16, pp. 65-68	FI/2024	0.300	nu AP/AC	2006	0.05	0.05

S72	Bumbac, M., Gorghiu, L., Dumitrescu, C., Jipa, S. and Setnescu, R., Investigation of rosemary and sage extracts for the protection of polyethylene against thermal oxidation. Materiale Plastice, 2005 42(4), 313-316	FI/2024	0.700	AP	2005	0.70	0.70
S73	Jipa, S., Zaharescu, T., Setnescu, R., Setnescu, T., Dumitru, M., Gorghiu, L.M., Mihalcea, I. and Bumbac, M., Effect of calixarenes on thermal stability of polyethylenes. Polymer degradation and stability, 2003, 80(2), pp.203-208. https://doi.org/10.1016/S0141-3910(02)00389-0	FI/2024	7.400	nu AP/AC	2003	0.93	0.93
Total						97.06	50.72

4) NC (fara autocitari WOS) – 459



5) NC (fara autocitari Scopus) – 477



6) NCO – 1 (Tabel 5)

Nr. crt.	Proiect	National/International	NCO
1	Project PN-III-P2-2.1-PED-2019-5248, 364PED/2020-2022, Controlled atmosphere for fruit and vegetable storage: multidisciplinary solution and low cost (CASTOL), valoare UVT 55.677,00 RON	National	0
2	EEA Financial Mechanism 2014-2021, Research Project RO-NO-20190691-2020-2023, GRAAL Recovery - Granular activated algae technology for wastewater treatment and resources recovery, UVT Key person (Total project value 1.182.485 Euro)	International	0
22	PDI-PFE, ID 584/2021-2024, ProExcellence - Excellence and Performance for Increasing the Institutional Capacity of RDI, valoare 3.064.000,00 RON	National	0
26	Studiu de cercetare privind dezvoltarea, testarea și caracterizarea unor compozite polimerice avansate cu potențial de biodegradabilitate. Evaluarea unor modalități de valorizare optimă în contextul economiei circulare (BioComAV), SC KIK Compounds SRL, Târgoviște, contract servicii CDI nr. 4867 / 30.09.2020 (60 luni), 72.000 lei.	National	0

27	Studiu de cercetare privind obținerea unor materiale avansate de tip compozite polimerice (produs și tehnologie) în vederea înlocuirii elastomerilor reticulați. Evaluarea unor modalități de valorizare optimă în contextul economiei circulare (CORELAST), SC VETA SRL Târgu Mureș, contract servicii CDI nr. 4039/ 07.06.2022 (12 luni), 12.000 euro, membru în echipa de proiect.	National	0
28	Developing of new polymer composites incorporating recycled rubber powder – contributions to circular economy in polymers production chain (RUBECO), SC M.CECCHI & CO. S.p.A. Italia, contract servicii CDI nr. 5963/ 07.09.2022 (7 luni), 15.000 euro, director de proiect.	International	1
29	Project CNFIS-FDI-2023-F-0048 – StartINOV: Research and Innovation as an interface for preparing a sustainable competitive environment (Cercetarea și Inovarea ca interfață pentru pregătirea unui mediu competitiv sustenabil), 389.000,00 RON	National	0
30	Project CNFIS-FDI-2021-0075, D6 - CNFIS-FDI-2021-0075 ProResearch: Quality, Performance, Excellence - concepts for a stimulating and competitive environment in research, valoare 337868RON	National	0
12	Proiect CNFIS-FDI-2022-0034- Open Research: New Perspectives on Adhering to Open Science Practices In Valahia University of Targoviste, valoare 342.800 RON	National	0