

Universitatea Națională de Știință și Tehnologie POLITEHNICA București

Facultatea: Inginerie Chimică și Biotehnologii

Departamentul: Chimie Analitică și Ingineria Mediului

Nume Prenume: Nechifor Cristina Aurelia

Gradul didactic: Profesor

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. TEZA DE DOCTORAT

A1. *Sinteza, caracterizarea și aplicațiile particulelor magnetice și ale ferofluidelor*, susținută la 9.08.2005-UPB

B. Cărți și capitole în cărți publicate în ultimii 10 ani

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C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Simultaneously Recovery of Thorium and Tungsten through Hybrid Electrolysis-Nanofiltration Processes

Man, Geani Teodor ; Albu, Paul Constantin ; (...); Nechifor, Gheorghe
Published Feb 2024 |

Toxics

2. Thorium Removal, Recovery and Recycling: A Membrane Challenge for Urban Mining

Man, Geani Teodor ; Albu, Paul Constantin ; (...); Nechifor, Gheorghe
Published Sep 2023 |, **Membranes**

3. Hydrogen Sulphide Sequestration with Metallic Ions in Acidic Media Based on Chitosan/sEPDM/Polypropylene Composites Hollow Fiber Membranes System, Pascu,

Dumitru ; Nechifor, Aurelia Cristina ; (...); Nechifor, Gheorghe
Published Mar 2023 , **Membranes**

4. Chitosan-sEPDM and Melatonin-Chitosan-sEPDM Composite Membranes for Melatonin Transport and Release

Pancescu, Florentina Mihaela ; Rikabi, Abbas Abdul Kadhim Klaif ; (...); Bungau, Simona Gabriela
Published Mar 2023 , **Membranes**

5. LEAD-CADMIUM IONS RECUPERATIVE SEPARATION BY CHITOSAN-sEPDM-POLYPROPYLENE HOLLOW FIBER COMPOSITE MEMBRANES

Goran, Alexandru ; Al-Ani, Hussam Nadum Abdalraheem ; (...); Nechifor, Aurelia Cristina, Published 2023 , **Studia
Chemia**

6.Characterization of the Toxicological Impact of Heavy Metals on Human Health in Conjunction with Modern Analytical Methods

Filipoiu, Dana Claudia ; Bungau, Simona Gabriela ; (...); Tit, Delia Mirela, Published Dec 2022|, **Toxics**

7.Comorbidities, Associated Diseases, and Risk Assessment in COVID-19-A Systematic Review

Fitero, Andreea ; Bungau, Simona Gabriela ; (...); Negrut, Nicoleta, Published Oct 2022 |, **International Journal of Clinical Practice**

8.Obtaining and Characterizing the Osmium Nanoparticles/n-Decanol Bulk Membrane Used for the p-Nitrophenol Reduction and Separation System, Nechifor, Aurelia Cristina ; Goran, Alexandru ; (...); Albu, Paul Constantin, Published Oct 2022 |, **Membranes**

9.The Effects of the 'Catabolic Crisis' on Patients' Prolonged Immobility after COVID-19 Infection

Moga, Titus David ; Nistor-Cseppento, Carmen Delia ; (...); Negrut, Nicoleta, Published Jun 2022 , **Medicina**

10.Simultaneous Release of Silver Ions and 10-Undecenoic Acid from Silver Iron-Oxide Nanoparticles Impregnated Membranes

Nechifor, Gheorghe ; Grosu, Alexandra Raluca ; (...); Nechifor, Aurelia Cristina, Published Jun 2022 |**Membranes**

11.Non-conventional therapeutical approaches to acne vulgaris related to its association with metabolic disorders

Bungau, Simona Gabriela ; Tit, Delia Mirela ; (...); Endres, Laura, Published May 2022 |, **European Journal of Pharmacology**

12.Therapeutic approaches in the management of knee osteoarthritis (Review)

Uivaraseanu, Bogdan ; Vesa, Cosmin Mihai ; (...); Bungau, Simona, Published May 2022 |, **Experimental and Therapeutic Medicine**

13.A Narrative Review of the Classical and Modern Diagnostic Methods of the No-Reflow Phenomenon

Pantea-Rosan, Larisa Renata ; Bungau, Simona Gabriela ; (...); Bustea, Cristiana, Published Apr 2022 |, **Diagnostics**

14. Acute coronary syndromes in diabetic patients, outcome, revascularization, and antithrombotic therapy

Babes, Elena Emilia ; Bustea, Cristiana ; (...); Bungau, Simona Gabriela, Published Apr 2022 |, **Biomedicine & Pharmacotherapy**

15.pH and Design on n-Alkyl Alcohol Bulk Liquid Membranes for Improving Phenol Derivative Transport and Separation

Albu, Paul Constantin ; Tanczos, Szidonia-Katalin ; (...); Nechifor, Aurelia Cristina, Published Apr 2022 ,**Membranes**

16.Therapeutic dilemmas in addressing SARS-CoV-2 infection: Favipiravir versus Remdesivir

Negru, Paul Andrei ; Radu, Andrei-Flavius ; (...); Bungau, Simona Gabriela, Published Mar 2022 |, **Biomedicine & Pharmacotherapy**

17.Operational Limits of the Bulk Hybrid Liquid Membranes Based on Dispersion Systems
Ferencz (Dinu), Andreea ; Grosu, Alexandra Raluca ; (...); Nechifor, Gheorghe, Published Feb 2022 |, **Membranes**

18.Highlighting the advantages and benefits of cementless total knee arthroplasty (Review)
Uivaraseanu, Bogdan ; Vesa, Cosmin Mihai ; (...); Bungau, Simona, Published Jan 2022, **Experimental and Therapeutic Medicine**

19.Osmium Recovery as Membrane Nanomaterials through 10-Undecenoic Acid Reduction Method
Albu, Paul Constantin ; Ferencz (Dinu), Andreea ; (...); Nechifor, Aurelia Cristina, Published Jan 2022 |,
Membranes

20.Transport and Separation of the Silver Ion with n-decanol Liquid Membranes Based on 10-undecylenic Acid, 10-undecen-1-ol and Magnetic Nanoparticles, Nechifor, Gheorghe ; Pancescu, Florentina Mihaela ; (...); Nechifor, Aurelia Cristina, Published Dec 2021 |, **Membranes**

21.Osmium Nanoparticles-Polypropylene Hollow Fiber Membranes Applied in Redox Processes
Nechifor, Gheorghe ; Pancescu, Florentina Mihaela ; (...); Nechifor, Aurelia Cristina, Published Oct 2021 |,
Nanomaterials

22.Poly(methyl methacrylate) with TiO₂ nanoparticles inclusion for stereolithographic complete denture manufacturing the future in dental care for elderly edentulous patients? (vol 59, pg 68, 2017), Totu, Eugenia Eftimie ; Nechifor, Aurelia Cristina ; (...); Cristache, Corina Marilena
Published Sep 2021 |, **Journal of Dentistry**

23. Chemo-Preventive Action of Resveratrol: Suppression of p53-A Molecular Targeting Approach
Akter, Rokeya ; Rahman, Md. Habibur ; (...); Bungau, Simona, Published Sep 2021 |, **Molecules**

24.Reactional Processes on Osmium-Polymeric Membranes for 5-Nitrobenzimidazole Reduction
Nechifor, Aurelia Cristina ; Goran, Alexandru ; (...); Bungau, Simona Gabriela, Published Aug 2021 , **Membranes**

25.Chemical Profile, Antioxidant Capacity, and Antimicrobial Activity of Essential Oils Extracted from Three Different Varieties (Moldoveanca 4, Vis Magic 10, and Alba 7) of Lavandula angustifolia,
Bogdan, Mihaela Alexandra ; Bungau, Simona ; (...); Copolovici, Dana Maria
Published Jul 2021 |, **Molecules**

26.The Footprint of Kynurenine Pathway in Neurodegeneration: Janus-Faced Role in Parkinson's Disorder and Therapeutic Implications
Behl, Tapan ; Kaur, Ishnoor ; (...); Bungau, Simona GabrielaPublished Jul 2021 |, **International Journal of Molecular Sciences**

27.Improving the Performance of Composite Hollow Fiber Membranes with Magnetic Field Generated Convection Application on pH Correction Nechifor, Aurelia Cristina ; Goran, Alexandru ; (...); Nechifor, Gheorghe, Published Jun 2021 |**Membranes**

28. Recuperative Amino Acids Separation through Cellulose Derivative Membranes with Microporous Polypropylene Fiber Matrix

Nechifor, Aurelia Cristina ; Pirtac, Andreia ; (...); Bungau, Simona Gabriela, Published Jun 2021 | **Membranes**

29. Value of Hematological and Coagulation Parameters as Prognostic Factors in Acute Coronary Syndromes

Babes, Elena Emilia ; Zaha, Dana Carmen ; (...); Brisc, Ciprian, Published May 2021 | **Diagnostics**

30. Accessible Silver-Iron Oxide Nanoparticles as a Nanomaterial for Supported Liquid Membranes
Dimulescu (Nica), Ioana Alina ; Nechifor, Aurelia Cristina ; (...); Bungau, Simona Gabriela, Published May 2021 |, **Nanomaterials**

31. Removing of the Sulfur Compounds by Impregnated Polypropylene Fibers with Silver Nanoparticles-Cellulose Derivatives for Air Odor Correction, Nechifor, Aurelia Cristina ; Cotorcea, Simona ; (...); Nechifor, Gheorghe, Published Apr 2021 |, **Membranes**

32. Recognizing the Benefits of Pre-/Probiotics in Metabolic Syndrome and Type 2 Diabetes Mellitus Considering the Influence of Akkermansia muciniphila as a Key Gut Bacterium Aron, Raluca Anca Corb ; Abid, Areha ; (...); Bungau, Simona, Published Mar 2021 | **Microorganisms**

33. Control of Nanostructured Polysulfone Membrane Preparation by Phase Inversion Method, Urducea, Cristina Bardaca ; Nechifor, Aurelia Cristina ; (...); Bungau, Simona Gabriela, Published Dec 2020 |, **Nanomaterials**

34. Determination of the Total Polyphenols Content and Antioxidant Activity of Echinacea Purpurea Extracts Using Newly Manufactured Glassy Carbon Electrodes Modified with Carbon Nanotubes, Banica, Florin ; Bungau, Simona ; (...); Nemeth, Sebastian, Published Jul 2020 , **Processes**

35. Eighteen Months Follow-Up with Patient-Centered Outcomes Assessment of Complete Dentures Manufactured Using a Hybrid Nanocomposite and Additive CAD/CAM Protocol, Cristache, Corina Marilena ; Totu, Eugenia Eftimie ; (...); Enachescu, Marius
Published Jan 2020 , **Journal of Clinical Medicine**

36. Added value recyclability of glass fiber waste as photo-oxidation catalyst for toxic cytostatic micropollutants

Nechifor, Gheorghe ; Totu, Eugenia Eftimie ; (...); Isildak, Ibrahim, Published Jan 2020 |, **Scientific Reports**

37. Model Driven Analysis of the Biosynthesis of 1,4-butanediol from Renewable Feedstocks in Escherichia coli

Bodor, Zsolt ; Lanyi, Szabolcs ; (...); Miklossy, Ildiko, Published Nov 2019 , Revista de Chimie

38. Non-Resorbable Nanocomposite Membranes for Guided Bone Regeneration Based on Polysulfone-Quartz Fiber Grafted with Nano-TiO₂

Nechifor, Gheorghe ; Totu, Eugenia Eftimie ; (...); Cristache, Corina Marilena, Published Jul 2019, **Nanomaterials**

39. Removal of Dyes from Wastewater by Ceramic Membrane, Al-Alawy, Ramy Mohamed Jebir ; Abod, Baker M. ; (...); Nechifor, Aurelia Cristina
Published May 2019, Revista de Chimie

40. Determination of the Optimal Condition of Direct Blue Dye Removal from Aqueous Solution Using Eggshell

Abbas, Rana Abdullah ; Farhan, Ahlam Abdul-Rheem ; (...); Nechifor, Aurelia Cristina, Published Apr 2019, Revista de Chimie

41. Melatonin and Hyaluronic Acid in Periodontal Disease, Cristache, Corina Marilena ; Totu, Eugenia Eftimie ; (...); Pintilie, Ingrid Ioana

Published Mar 2019 , Revista de Chimie

42. Synthesis, Characterization and Antibacterial Activity from Mixed Ligand Complexes of 8-Hydroxyquinoline and Tributylphosphine for Some Metal Ions, Abbas, Rana Abdulilah ; Jarad, Amer J. ; (...); Nechifor, Aurelia Cristina, Published Jan 2019 |, Revista de Chimie

43. Validation and Quality Assurance of Ascorbic Acid Determination in Agricultural Products, Hegedus, Ondrej ; Szarka, Katarina ; (...); Tonk, Szende, Published 2019 , Revista de Chimie

44. Innovative Complex Formulation as Topical Treatment for Oral Health Improvement in Periodontal Disease

Cristache, Corina Marilena ; Totu, Eugenia Eftimie ; (...); Burlibasa, Mihai, Published 2019 , Revista de Chimie

45. On Physical and Chemical Characteristics of Poly (methyl methacrylate) Nanocomposites for Dental Applications. II

Totu, Eugenia Eftimie ; Nechifor, Aurelia Cristina ; (...); Cristache, Corina Marilena, Published 2019 , **Materiale Plastice**

E. Brevete obținute în întreaga activitate

1.

PROCESS FOR PREPARING A POLYMERIC MEMBRANE OF DILUTED SOLUTIONS , RO125959 (A0) — 2011-01-28 ALDEA FLORIAN [RO]; VOICU STEFAN IOAN [RO]; NECHIFOR AURELIA CRISTINA [RO]; NECHIFOR GHEORGHE

2.

NANO-COMPOSITE MATERIAL USED FOR MAKING DENTAL PROSTHESIS BY STEREOLITHOGRAPHY, COMPRISES POLY(METHYL METHACRYLATE) AND TITANIUM DIOXIDE NANOPARTICLES AND HAS UNIFORM MORPHOLOGICAL STRUCTURE AND ANTIBACTERIAL ACTION WITHOUT CYTOTOXICITY, CRISTACHE C M, TOTU E, NECHIFOR G, DIDILESCU A C, NECHIFOR AURELIA CRISTINA, CERERE DE BREVET NR. RO132968-A0, 2019