

Universitatea Națională de Știință și Tehnologie POLITEHNICA București

Facultatea: Inginerie Chimică și Biotehnologii

Departamentul: Chimie Analitică și Ingineria Mediului

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Gradul didactic: Șef lucrări dr. ing.

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

„Studii și cercetări privind epurarea apelor cu conținut de coloranți antrachinonici și indigoizi prin electrocoagulare”, Universitatea. Politehnica București, 2011

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

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

1. Nechifor, Aurelia Cristina; Albu, Paul Constantin; Motelica, Ludmila; Man, Geani Teodor; **Grosu, Alexandra Raluca**; Tanczos, Szidonia-Katalin; Grosu, Vlad-Alexandru; Marinescu, Virgil Emanuel; Nechifor, Gheorghe, „*Thorium Recovery with Crown Ether-Polymer Composite Membranes*”, APPLIED SCIENCES-BASEL, Volume 14, Issue 21, pp. 1-21, 2024.
2. Albu, Paul Constantin; Pirtac, Andreia; Motelica, Ludmila; Nechifor, Aurelia Cristina; Man, Geani Teodor; **Grosu, Alexandra Raluca**; Tanczos, Szidonia-Katalin; Grosu, Vlad-Alexandru; Nechifor, Gheorghe, „*Reduction in Olfactory Discomfort in Inhabited Premises from Areas with Mofettas through Cellulosic Derivative-Polypropylene Hollow Fiber Composite Membranes*”, MATERIALS, Volume 17, Issue 17, 2024.
3. Pirtac, Andreia; Nechifor, Aurelia Cristina; Tanczos, Szidonia-Katalin; Oprea, Ovidiu Cristian); **Grosu, Alexandra Raluca**; Matei, Cristian; Grosu, Vlad-Alexandru; Vasile, Bogdan Stefan; Albu, Paul Constantin; Nechifor, Gheorghe, „*Emulsion Liquid Membranes Based on Os-NP/n-Decanol or n-Dodecanol Nanodispersions for p-Nitrophenol Reduction*”, MOLECULES, Volume 29, Issue 8, 2024.
4. Man, Geani Teodor; Albu, Paul Constantin; Nechifor, Aurelia Cristina; Grosu, Alexandra Raluca Popescu (Stegarus), Diana Ionela; Grosu, Vlad-Alexandru; Marinescu, Virgil Emanuel; Nechifor, Gheorghe, „*Simultaneously Recovery of Thorium and Tungsten through Hybrid Electrodialysis-Nanofiltration Processes*”, TOXICS, Volume12, Issue 2, 2024.
5. Man, Geani Teodor; Albu, Paul Constantin; Nechifor, Aurelia Cristina; **Grosu, Alexandra Raluca**, Tanczos, Szidonia-Katalin; Grosu, Vlad-Alexandru; Ioan, Mihail-Răzvan; Nechifor, Gheorghe, „*Thorium Removal, Recovery and Recycling: A Membrane Challenge for Urban Mining*”, MEMBRANES, Volume 13, Issue 9, 2023.
6. Pascu, Dumitru; Nechifor, Aurelia Cristina; Grosu, Vlad-Alexandru; Oprea, Ovidiu Cristian; Tanczos, Szidonia-Katalin; Man, Geani Teodor; Dumitru, Florina; **Grosu, Alexandra Raluca**; Nechifor, Gheorghe, „*Hydrogen Sulphide Sequestration with Metallic Ions in Acidic Media Based on Chitosan/sEPDM/Polypropylene Composites Hollow Fiber Membranes System*”, MEMBRANES, Volume13, Issue 3, 2023.

7. Pancescu, Florentina Mihaela; Rikabi, Abbas Abdul Kadhim Klaif, Oprea, Ovidiu Cristian; **Grosu, Alexandra Raluca**; Nechifor, Aurelia Cristina; Grosu, Vlad-Alexandru; Tanczos, Szidonia-Katalin; Dumitru, Florina; Nechifor, Gheorghe; Bungau, Simona Gabriela, „*Chitosan-*s*EPDM and Melatonin-Chitosan-*s*EPDM Composite Membranes for Melatonin Transport and Release*”, MEMBRANES, Volume13, Issue 3, 2023.
8. Goran, Alexandru; Al-Ani, Hussam Nadum Abdalraheem, **Grosu, Alexandra-Raluca**; Man, Geani Teodor, Grosu, Vlad-Alexandru; Nechifor, Aurelia Cristina, „*Lead-cadmium ions recuperative separation by chitosan-sepdm-polypropylene hollow fiber composite membranes*”, STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA, Volume 68, Issue 2, pp.193-206, 2023.
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11. **Alexandra Raluca Grosu**, Ion Marius-Nafliu, Ion Spiridon Din, Anca-Maria Cimbru Gheorghe Nechifor, “*Neutralization with simultaneous separation of aluminum and copper ions from condensed water through capillary polypropylene and cellulose derivatives*”, University Politehnica of Bucharest Scientific Bulletin Series B-chemistry and Materials Science, no. 1, pp. 25-34, 2020.
12. Ion Marius-Nafliu, Hussam Nadum Abdalraheem Al-Ani, **Alexandra Raluca Grosu**, Paul Constantin Albu, Gheorghe Nechifor, „*Iono-molecular Separation with Composite Membranes. VIII. Recuperative aluminium ions separation on capillary Polypropylene S-EPDM composite membranes*”, Materiale Plastice, 56, issue 1, pp. 32-36, 2019.
13. Eugenia Eftimie Totu, Corina Marilena-Cristache, Oana ENE, Irina Adriana Beuran, Mihai Burlibaşa, **Alexandra Raluca Grosu** – “*Nanocomposite for Rapid Prototyped Complete Denture Eighteen months follow-up on clinical performance*”, Revista de chimie, vol. 70, issue 2, pp. 387-392, 2019.
14. Ion-Marius Nafliu, **Alexandra Raluca Grosu**, Hussam Nadum Abdalraheem Al Ani, Paul Constantin Albu, Gavril Lucian Gheorghievici, Mihaela Emanuela Craciun, „*Neutralization with Simultaneously Separation of Aluminum Ions from Condensate Water through Cellulose Derivatives-Capillary Polypropylene Composite Membranes*”, Materiale Plastice, vol.56 issue: 2 pp. 301-305, 2019.
15. Ion Marius - Nafliu, Hussam Nadum Abdalraheem Al Ani, **Alexandra Raluca Grosu**, Szidonia Katalin - Tanczos, Ioana Maior, Cristina Aurelia Nechifor, „*Iono-molecular Separation with Composite Membranes. VII. Nitrophenols pertraction on capillary polypropylene S-EPDM composite membranes*”, Materiale Plastice, vol. 55, pp. 511-516, 2018.
16. Mircea Segarceanu, Danut Ionel Vaireanu, **Alexandra Raluca Grosu**, Szidonia Katalin Tanczos, Abbas Abdul Kadhim Klaif Rikabi, Ion Marius Nafliu, „*Dynamic membranes on polysulfone support for fuel cells*”, Materiale Plastice, vol.55, issue 2, pp. 137-140, 2018.
17. Caprarescu, S., **Miron, A.R.**, Purcar, V., Radu, A.-L., Sarbu, A., Nicolae, C.A., Pascu, M.N., Ion-Ebrasu, D., Raditoiu, V., “*Treatment of Crystal Violet from Synthetic Solution Using Membranes Doped with Natural Fruit Extract*”, Clean - Soil, Air, Water, volume 46, issue 7, 2018.

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25. Gales, L.N., Anghel, R., Gruia, M.I., Gruia, I., Birloiu, A., **Miron, A.R.**, “*A study regarding boron metabolism at experimental animals in order to achieve neutron irradiation in boron capture*”, *Revista de Chimie*, vol. 67, no. 6, pp. 1047-1050, 2016.
26. Albu, P.C., Al Ani, H.N.A., Cimbru, A.M., Popa, G.A., Niculae, A.G., **Miron, A.R.**, “*Pharmaceutical industry wastewater treatment by electrocoagulation and micellar ultrafiltration*”, *Revista de Chimie*, vol. 67, no. 4, pp. 813-820, 2016.
27. Pascu, D.E., Neagu, M., Traistaru, G.A.; Nechifor, A.C., **Miron, A.R.**, “*Iron and manganese removal from drinking water*”, *Journal of Electrochemical Science and Engineering*, vol. 6, no. 1, pp. 47-55, 2016.
28. **Alexandra Raluca Miron**, Abbas Abdul Kadhim Klaif Rikabi, Alexandra Gabriela Niculae, Szidonia-Katalin Tanczos, “*Kinetic Study of Alizarin Saphirol and Indigo Carmine Dyes Adsorption Process*”, **Revista de Chimie**, vol. 66, no. 1, pp. 6-12, 2015.
29. **Alexandra Raluca Miron**, Aurelia Cristina Nechifor, Abbas Abdul Kadhim Klaif Rikabi, Szidonia-Katalin Tanczos, “*Separation of aromatic intermediates of biological interest using emulsion liquid membranes*”, **Environmental Engineering Management Journal**, vol. 14, no. 2, pp. 373-379, 2015.
30. Cristina Modrogan, **Alexandra Raluca Miron**, Oanamari Daniela Orbulet, Cristina Costache, Giani Apostol, „*Ion exchange processes on weak acid resins for wastewater containing cooper ions treatment*”, **Environmental Engineering Management Journal**, vol. 14, no. 2, pp. 449-454, 2015.
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33. Daniela Elena Pascu, **Alexandra Raluca Miron**, Mihai Totu, Aurelia Cristina Nechifor, Eugenia Eftimie Totu, “*Mathematical modelling and zeta potential determination in the membrane separation process*”, **Journal of Optoelectronics and Advanced Materials**, vol. 17, no. 7-8, 2015.
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D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți

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2. C. Orbeci, C.Modrogan, **A.R. Miron**, „*Removal of pharmaceutical effluents using photocatalytic membranes*”, 19th Romanian International Conference on Chemistry and Chemical Engineering, Sibiu, Romania, 2-5 Septembrie, 2015.
3. Cristina Orbeci, Cristina Modrogan, **Alexandra Raluca Miron**, Firas Hashim Kamar “*Removal of heavy metal ions through ion exchange*”, 3rd International Conference on Methods and Materials for Separation Processes Separation Science – Theory and Practice 2015, 6-10 September, 2015, Karpacz, Poland, pp. 99.
4. Cristina Modrogan, **Alexandra Raluca Miron** and Oanamari Daniela Orbulet, “*Removal of heavy metals from wastewaters by electrodialysis in the presence of ion exchange membranes*”, 5th Regional Symposium on Electrochemistry South East Europe, Riu Pravetz, Bulgaria, 4-8 June 2015, pp. 130.
5. C. Modrogan, O.D. Orbulet, C. Costache, **A.R. Miron**, “*Neural network modeling and simulation of sorption of Cd²⁺ ions from wastewater using low-cost adsorbent*”, 19th Romanian International Conference on Chemistry and Chemical Engineering, Sibiu, Romania, 2-5 September, 2015.

E. Brevete obținute în întreaga activitate