

Universitatea Națională de Știință și Tehnologie POLITEHNICA București

Facultatea: **Inginerie Chimică și Biotehnologii**

Departamentul: **Chimie Analitica si Ingineria Mediului (CAIM)**

Nume Prenume: **Ion Ion**

Gradul didactic: **Profesor**

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Procese catalitice de electrod cu aplicații în chimia analitica, UPB, 1997

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

1. Ion, C.Modrogan, O.D.Orbulet, C.Bobirica, L.Bobirica, A.C.Ion, “ Metode de separare aplicate in analiza unor probe de mediu si produse alimentare”, Editura POLITEHNICA Press, Bucuresti 2020, 98 pagini, ISBN 978-606-515-913-6

2. A.C. Ion, G.R. Ivan, I. Ion, *Treatment techniques for organic micropollutants removal from waters*, Series in Micro and Nanoengineering, “Nanomaterials-Functional properties and applications”, 2020, vol. 28, p. 118-134, Eds. Maria Zaharescu, Alina Ion, Marius Enachescu, Dan Dascalu, Ed. Academiei Romane, ISBN 978-973-27-3290-8

3. I. Ion, A. Culetu, D. Gherase, F. Sarbu, A.C. Ion, “Environmental applications of carbon based nanomaterials II” in seria “Microand Nanoengineering vol. 22, “Noi aplicatii ale unor nanomateriale”, Eds. Alina Catrinel Ion, Dan Dascalu, Gabriela Carja, Ed. Academiei Romane, Bucuresti 2014, p. 33-51, ISBN 978-973-27-2311-1

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

1.I Ion, RM Senin, AC Ion, *Influence of Organic Carbon from Weathered Sediments on Triclocarban Distribution in Environmental Aqueous Systems*, Separations 2024 11 (9), 255

2. I. Ion, R. Cornoiu, T. Tofan, A. C. Ion, Triclocarban partition coefficients in waters with different compositions, U.P.B. Sci. Bull., Series B, 2024, Vol. 86, Iss. 3, ISSN 1454-2331, WOS:001301114000008, FI=0.3

3. K. Weise, S. Beil, K. Schwanebeck, Alina C. Ion, Thomas U. Berendonk, D. Jungmann, *An informative short-term study on the impacts of a triclocarban/ weathered multi-walled carbon nanotube-adsorbed complex to benthic organisms*, Environmental Science and Pollution Research 2024, 31:19917–19926, WOS:001163799600013, FI=5.

4. G.R. Ivan, I. Ion, L. Capră, O. Oprea, A.C. Ion, The Influence of the Chemical Composition of Natural Waters about the Triclocarban Sorption on Pristine and Irradiated MWCNTs, 2023, *Separations*, 10, 46, p.1-14, <https://doi.org/10.3390/separations10010046>, WOS:000927327400001
5. M.R. Calin, A.C. Ion, C.A. Simion, M.M. Mincu, I. Ion, Analysis of the radon concentrations in natural mineral and tap water using Lucas cells technique, *Journal of Environmental Engineering and Landscape Management*, 2022, 30(3), p.370-379, ISSN 1648–6897 / eISSN 1822-4199 <https://doi.org/10.3846/jeelm.2022.17411>, WOS:000885970300003, IF(2023) = 1,373
6. M. Savin, C.M. Mihailescu, C. Moldovan, A. Grigoriu, I. Ion, A.C. Ion, *Resistive Chemosensors for the Detection of CO Based on Conducting Polymers and Carbon Nanocomposites: A Review*, *Molecules* 2022, 27 (3), 821, 1-25, ISSN: 1420-3049, DOI: <https://doi.org/10.3390/molecules27030821>, WOS:000760560000001, Q1, IF(2022) = 4,6
7. Georgeta Ramona Ivan, Ion Ion*, Luiza Capra, Alina Catrinel Ion, *Effects of pH, temperature, ionic strength and organic matter on triclocarban solubility*, *J. Environ. Engineering & Landscape Manag.*, 2021, 29(3), 244-250, DOI: <https://doi.org/10.3846/jeelm.2021.14638>, WOS:000691249100006, IF(2023) = 1,373
8. I. Ion, G. R. Ivan, A. C. Ion, *Distribution of triclocarban in natural aqueous systems amended with carbon nanomaterials*, *J. Nanoscience and Nanotechnology*, 2021, 21(4), 2368-2375. DOI: <https://doi.org/10.1166/jnn.2021.18968>, IF(2021)=1,134
9. I Ion, D. Bogdan, M.M. Mincu, A. C. Ion, *Modified Exfoliated Carbon Nanoplatelets as Sorbents for Ammonium from Natural Mineral Waters*, *Molecules* 2021, 26 (12), 3541, DOI: [10.3390/molecules26123541](https://doi.org/10.3390/molecules26123541), IF(2021)=4,148
10. R.M. Senin, V. Badescu, I. Radulescu, M.R. Calin, I. Ion, M. Henning, A.C. Ion, *Non-Linear Regression Applied to the Sorption of Bisphenol A on Multi-Walled Carbon Nanotubes in Aqueous Systems*, *J. Nanoscience and Nanotechnology*, 2021, 21(2427-2434), DOI: [10.1166/jnn.2021.18967](https://doi.org/10.1166/jnn.2021.18967), IF(2021)=1,134
11. I. Ion, G. R. Ivan, R. M. Senin, S. M. Doncea, L. Capra, C. Modrojan, O. Oprea, G. Stinga, O. Orbulet, A. C. Ion, “Adsorption of triclocarban (TCC) onto fullerene C60 in simulated environmental aqueous conditions”, *Separation Science and Technology (Philadelphia)*, 2019, 54(17), pp.1-14, <https://doi.org/10.1080/01496395.2019.1577450>, ISSN: 0149-6395 (Print), 1520-5754 (Online), WOS: WOS:000488967200001, IF(2021)=2,475
12. I. Ion, R.M. Senin, B. Vasile, A.C. Ion, “Influence of the matrix of aqueous solutions on the adsorption of endocrine disruptors by fullerene C60”, *Journal of Environmental Engineering and*

Landscape Management, 2019, 27(1), pp. 1-11, ISSN:1648-6897, E-ISSN:1822-4199,

DOI: 10.3846/jeelm.2019.7644, WOS:000462767600001, IF(2021)=1,373

13. I.Ion, A.C.Ion, M.C.Calin, I.Radulescu, D.Bogdan, „Assessment of Chemical Parameters and Natural Radionuclides Concentrations in Carbonated Natural Mineral Water and Contribution to Radiation Dose”, Roumanian Journal of Physics,2019, 64(1-2), art. no.804, pp.1-15, ISSN 1221-146X, Editura Academiei Romane, WOS:000460671400013, IF(2021)=1,888

14. I.Ion, R.M.Senin, G.Ivan, M.P.Henning, I.Politowski, A.C.Ion, „Adsorbition of triclocarban on pristine and irradiated MWCNTs in aqueous solutions”, Revista de chimie, 2019, 70(8) , pp. 2835-2842, WOS: 000489685600027, ISSN: 0034-7752

15. L.Capra, M.Manolache, I.Ion, R.Stoica, G.Stanga, S.M.Doncea, E.Alexandrescu, R.Somoghi, M.R.Calin, I.Radulescu, G.R.Ivan, M.Diaconu, A.C.Ion*, “Adsorption of Sb (III) on Oxidized Exfoliated Graphite Nanoplatelets”, Nanomaterials, 2018, 8(12), art.no. 992; p.1-16, doi:[10.3390/nano8120992](https://doi.org/10.3390/nano8120992), ISSN: 2079-4991, WOS:000455323100030, IF(2021)=5,076

16. F.Sirbu, A.C.Ion, L.Capra, I.Ion,” A Thermodynamics Study on the Tetrahydrofuran Effect in Exfoliated Graphite Nanoplatelets and Activated Carbon Mixtures at Temperatures between 293.15 and 308.15K”, Advanced in Materials Science and Engineering, 2018, article number 9106043, ISSN:16878434, doi:10.1155/2018/9106043, WOS:000429679400001, IF(2021)=1,726

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18. R.M.Senin, I.Ion, O.Oprea, R.Stoica, R. Ganea, A.C Ion, “Sorption of bisphenol A in aqueous solutions on irradiated and as-grown multiwalled carbon nanotubes”, Revista de chimie, 2018, 69(5), 1233-1239, ISSN: 0034-7752, WOS:000434954100042

19. R.M. Senin, I. Ion, A.C.Ion, “A sorption study of bisphenol a in aqueous solutions on pristine and oxidized multi-walled carbon nanotubes”, Polish Journal of Environmental Studies 2018, 27(5), pp.2245-2257, WOS: 000434059500034, DOI:<https://doi.org/10.15244/pjoes/78677>, ISSN: 1230 - 1485, e-ISSN: 2083-5906, IF(2021)=1,699

20. I.Radulescu, M.R. Calin., I.Ion, A.C.Ion, L.Capra, C.A. Simion, “ Gross alpha, gross beta and gamma activities in bottled natural mineral water from Romania”, Romanian Reporrt in Phydics, 2017, 69(4), art. no. 710, pp.1-10, ISSN 1841-8759, WOS:000417112800012, IF(2021)=1,785

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23. L. Capra, M. Manolache, I. Ion, E. Radu, A.C. Ion, The optimization and validation of a method for Sb determination from pet by ICP-OES, Revista de chimie, 2017, 68(9) , pp. 1969-1973, WOS:000416748800004, ISSN: 0034-7752
24. Capra, L., Manolache, M., Ion, I., Ion, A.C, *Validation of a method for determination of antimony in drinking water by ICP-OES*, U.P.B. Sci. Bull., Series B, 2016, 78(3), p.103-112, ISSN 14542331, WOS:000417053200010
25. D. Bogdan, G.A Rizea, I. Ion, A.C. Ion, Ammonium adsorption on exfoliated graphite nanoplatelets, Rev.Chim.(Bucharest) 2016, 67 (11), p.2231-2236, , ISSN 0034-7752, WOS:000388361900022
26. M.R.Calin, I.Radulescu, I.Ion, D.Bogdan, A.C.Ion, *Radiometric Studies on Carbonated Natural Mineral Waters from the Northern Part of Romania*, Rev.Chim.(Bucharest) 2016, 67 (12), p.2537-2540, ISSN 0034-7752, WOS:000393230400031
27. E.Radu, R.Stoica, E.E.Oprescu, I.Bolocan, I.Ion, A.C.Ion, *Validation of a RP-HPLC-UV method for the determination of bisphenol A at low levels in natural mineral waters,* ”, Rev. Chim.(Bucharest) 2016, 67 (2), p.236-240 , ISSN 0034-7752, WOS:000372170700007
28. E.Radu, R.Stoica, S.M.Doncea, G.Vasilievici, E.E.Oprescu, I.Bolocan, Ahmed Jassimmuklive Al-Ogaidl, I.Ion, A.C.Ion, *Vancomycin sorption on pristine and oxidized exfoliated graphite nanoplatelets*, Rev.Chim.(Bucharest) 2016, 67 (3), p.401-407, ISSN 0034-7752, WOS:000375364800003
29. E. Radu, A.C. Ion, F. Sirbu, I. Ion, “*Adsorption of endocrine disruptors on exfoliated graphene nanoplatelets*”, Environ. Eng. Management J., 14(3), 2015, 551-558, ISSN:1592-9596, IF(2021) = 0,916
30. Ion, I., Sirbu, F., Ion, A.C., Ion, I., Sirbu, F., Ion, A.C., Thermophysical investigations of exfoliated graphite nanoplatelets and active carbon in binary aqueous environments at different temperatures, Journal of Materials Science, 50 (2), 2015, pp. 587-598, ISSN: 0022-2461, DOI: 10.1007/s10853-014-8616-2, WOS:000345407900009, Q2, IF(2021) = 8,067

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți

E. Brevete obținute în întreaga activitate