

Universitatea Națională de Știință și Tehnologie POLITEHNICA București

Facultatea: **Inginerie Chimică și Biotehnologii**

Departamentul: **CAIM**

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Gradul didactic: **Profesor**

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Compusi macrociclici. Aplicații analitice. Universitatea Politehnica din București, 1996

B. Cărți și 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 în analiza unor probe de mediu și produse alimentare”, Editura POLITEHNICA Press, București 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

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

C1. 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

C2. G. R. Ivan, I.Ion, L. Capra, O. Oprea, A.C. Ion, *The Influence of the Chemical Composition of Natural Waters about the Triclocarban Sorption on Pristine and Irradiated MWCNTs*, *Separations* 2023, 10(1),46

C3. M.R. Calin, **A.C. Ion**, I. Radulescu, C. A. Simion, M. M. Mincu, I. Ion, *Analysis of the radon concentrations in natural mineral and tap water using Lucas cells technique*, J. Environ. Engineering&Landscape Manag., ISSN 1648–6897 / eISSN 1822-4199, 2022, 30(3), 370-379

C4. O Tutunaru, CM Mihailescu, M Savin, BC Tincu, MC Stoian, GS Muscalu, **A.C. Ion** *Acetylcholinesterase entrapment onto carboxyl-modified single-walled carbon nanotubes and poly (3, 4-ethylenedioxythiophene) nanocomposite, film electrosynthesis ...*, Microchemical Journal, 2021, 106573, WOS:000692918100010, ISSN 0026-265X

C5. R. M. Calin, I. Radulescu,..., **A.C. Ion**, E.R. Almasan, *Investigations on chemical composition and natural radioactivity levels from salt water and peloid used in pelotherapy, from Techirghiol Lake, Romania*, Environ. Geochem. & Health, 2020, 42(2), 513-529.

- C6. C.M. Mihailescu, D.Stan,..., **A.C. Ion**, *Platform with biomimetic electrochemical sensors for adiponectin and leptin detection in human serum*, Talanta, 2020, 210, 120643.
- C7. I. Ion, G.R. Ivan,..., **A.C. Ion**, *Adsorption of triclocarban (TCC) onto fullerene C60 in simulated environmental conditions*, Sep. Sci. Technol., 2019, 54(17), 2759-2772.
- C8. Elena Radu, Elena-Emilia Oprescu, Emil Stepan, Cristina Enascuta, Catalina Calin, Rusandica Stoica, Gina Vasile Scaeteanu, Luiza Capra, **Alina Catrinel Ion^{2*}**, Adsorption of humic acids mixture obtained from microalgae on exfoliated graphite nanoplatelets, Rev. Chim., 2018, 69(1), pp. 49-61.
- C9. R. M. Senin, I. Ion, O. Oprea, B. Vasile, R. Stoica, R. Ganea, **A. C. Ion**, Sorption of bisphenol A in aqueous solution on fullerene C60, Rev. Chim., 2018, 69 (4), in press.
- C10. 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, Rev.Chim., 2018, 69 (5), in press.
- C11. R. M. Senin, I. Ion, **A. C. Ion**, A sorption study of bisphenol A in aqueous solutions on pristine and oxidized multiwalled carbon nanotubes, Polish Journal of Environmental Studies, accepted for publication, PJOES-01220-2017-02(1)
- C12. D. Bogdan, A.-O.A.J. Muklive, I. Ion, **A.C. Ion**, Ammonium adsorption on oxidized exfoliated graphite nanoplatelets, Environmental Engineering and Management Journal, 2017, 16 (3), pp. 543-552, **IF-1,065**
D. Bogdan, I. Ion, I., F. Sirbu, **A.C. Ion**, A possible distribution of nitrogen compounds during natural mineral waters disinfection treatment, Environmental Engineering and Management Journal, 2017, 16 (3), pp. 597-603
- C13. 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-1,065**
- C14. M. Mihon,C. Tuta, R. Leonte, **A.C. Ion**, V. Lavric, D. Niculae, "An improved methodology for determination of radiochemical and chemical impurities in the synthesis process of ¹⁸F-FDG(2-[18F]Fluoro-2-deoxy-D-glucose)", Environ. Eng. Management J., 14(2), 2015, 289-296, ISSN:1592-9596, **IF-1,065**
- C15. M.R. Calin, **A.C. Ion**, I. Radulescu, "Evaluation of quality parameters and of natural radionuclides concentrations in natural mineral water in Romania", J. Radioanal. Nucl. Chem., 2015, 303 (1), 305-313, ISSN:0236-5731, **IF-1.034**

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

E. Brevete obținute în întreaga activitate