

## LISTA DE LUCRĂRI

### ION Ion

#### **Lucrări publicate în reviste de specialitate cotate ISI ( Risi):**

**Risi1.** M. Savin, C.M. Mihailescu, C. Moldovan, A. Grigoroiu, 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>

**Risi2.** G.R. Ivan, I.Ion, L. Capra, A.C. Ion, *Effects of pH, temperature, ionic strength and organic matter on triclocarban solubility*, J. Environ. Engineering&Landscape Manag., 2021, 29(3), 244-250, ISSN 1648–6897 / eISSN 1822-4199, DOI: <https://doi.org/10.3846/jeelm.2021.14638>

**Risi3.** 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, ISSN: 1420-3049, doi: [10.3390/molecules26123541](https://doi.org/10.3390/molecules26123541)

**Risi4.** 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, ISSN: 1533 - 4880, doi: [10.1166/jnn.2021.18968](https://doi.org/10.1166/jnn.2021.18968)

**Risi5.** R.M. Senin, V.Bădescu, I.Rădulescu, M.R.Călin, 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(4), 2427-2434, ISSN: 1533-4880, doi: [10.1166/jnn.2021.18967](https://doi.org/10.1166/jnn.2021.18967)

**Risi6.** Ion Ion, Georgeta Ramona Ivan, Raluca Madalina Senin, Sanda Maria Doncea, Luiza Capra, Cristina Modrogean, Ovidiu Oprea, Gabriela Stinga, Oanemari Orbuleț, Alina Catrinel 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

**Risi7.** Ion 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

**Risi8.** 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

**Risi9.** I.Ion, R.M.Senin, G.Ivan, M.P.Henning, I.Politowski, A.C.Ion, *Adsorbtion of triclocarban on pristine and irradiated MWCNTs in aqueous solutions*, Revista de chimie, 2019, 70(8) , pp. 2835-2842, WOS:000489685600027, ISSN: 0034-7752

**Risi10.** 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, ISSN: 2079-4991, WOS:000455323100030

**Risi11.** 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

**Risi12.** 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

**Risi13.** L.Capra, M.Manolache, R.Stoica, I.Ion, A.C.Ion, *Validation and Optimization of a Method for Sb Determination from Bottled Natural Mineral Waters by ICP-OES*, Revista de chimie,2018, 69(8), pp. 2102-2106, ISSN: 0034-7752, WOS:000444602300036

**Risi14.** I.Ion, R.M.Senin, G.R.Ivan, R.Calin, I.Radulescu, A.C.Ion, *Effect of ionic strength and natural organic matter in aqueous solutions over the sorption of organic contaminants on irradiated and pristine carbon nanomaterials*, UPB SCi Bull., 2018, 80(4), pp. 17-30, WOS:000454986600002, ISSN: 1454-2331

**Risi15.** 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

**Risi16.** R.M.Senin, I.Ion, O.Oprea, B.Vasile, R.Stoica, R. Ganea, A.C Ion, *Sorption of bisphenol A( BPA in aqueous solutions on fullerene C60*, Revista de chimie, 2018, 69(6), 1309-1314, ISSN: 0034-7752, WOS:000434954100042

**Ris17.** 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

**Risi18.** 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, ISSN1582-9596, WOS:000403508600005

**Risi19.** D. Bogdan, I.Ion, 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, ISSN1582-9596, WOS:000403508600011

**Risi20.** 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

**Risi21.** 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

**Risi22.** 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

**Risi23.** 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

**Risi24.** 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 antural mineral water*, Rev.Chim.(Bucharest) 2016, 67 (2), p.236-240 , ISSN 0034-7752, WOS:000372170700007

**Risi25.** 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

**Risi26.** Radu, E., Ion, A.C., Sirbu, F., Ion, I., *Adsorption of endocrine disruptors on exfoliated graphene nanoplatelets*, Environmental Engineering and Management Journal, 2015, 14 (3), pp. 551-558, ISSN:1592-9596,WOS:000352652700007

**Risi27.** 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, 2014, 50 (2), pp. 587-598, ISSN: 0022-2461,WOS:000345407900009 , DOI: 10.1007/s10853-014-8616-2, WOS:000345407900009

**Risi28.** Dimcevici Poesina, N., Bălălău, C., Roxana Nimigean, V.Nimigean, I.Ion, D.Baconi, Bârcă, M., Băran Poesina, V., *Histopathological changes of renal tissue following sodium fluoride administration in two consecutive generations of mice. Correlation with the urinary elimination of fluoride*, Romanian Journal of Morphology and Embryology, 55 (2), pp. 343-349, 2014, ISSN: 1220-0522, WOS:000338329700014

**Risi29.** Dimcevici Poesina, N., Bălălău, C., Bârcă, M., Ion I., Bacini D., Baston, C., Băran Poesina, V. , *Testicular histopathological changes following sodium fluoride administration in mice*, Romanian Journal of Morphology and Embryology, 2013, 54 (4), pp. 1019-1024, ISSN:1220-0522, WOS:000329893400012

**Risi30.** Ion, I., Sirbu, F., Ion, A.C., *Density, refractive index, and ultrasound speed in mixtures of active carbon and exfoliated graphite nanoplatelets dispersed in N, N-dimethylformamide at temperatures from (293.15 to 318.15) K*, Journal of Chemical and Engineering Data, 2013, 58 (5), pp. 1212-1222, ACS Publications, ISSN: 0021-9568, WOS:000318891600020, DOI: 10.1021/je301343n

**Risi31.** Alina C. Ion, Stephanie Bley , Ion Ion , Alina Culetu, Stanislav Zahov, Henner Hollert, Thomas-Benjamin Seiler, *Investigation of the contaminant sorption of treated Romanian soils using “batch” and biological toxicity assay*, Catena, 2013, 101(2), pp. 205-211, Elsevier, ISSN 0925-4005,WOS:000313769000024

**Risi32.** I.Ion, A.C.Ion, *Differential pulse voltammetric analysis of lead in vegetables using a surface amino-functionalized exfoliated graphite nanoplatelet chemically modified electrode*, Sensors & Actuators, B: Chemical, 2012, 166-167, pp.842 – 847, Elsevier, ISSN 0925-4005, WOS:000305356900118, DOI:10.1016/j.snb.2012.02.084

**Risi33.** I.Ion, Alina Catrinel Ion, *Determination of chlorpyrifos in broccoli using a voltammetric acetylcholinesterase sensor based on carbon nanostructure-chitosan composite material*, Materials Science and Engineering C, 2012, 32(4), pp.1001-1004. Elsevier, ISSN 0921-5107, WOS: 000303299300055, DOI:10.1016/j.msec.2012.01.009

**Risi34.** Florinela Sirbu, Olga Iulian, Alina Catrinel Ion, Ion Ion, *Activity Coefficient of Electrolytes in the NaCl + Na<sub>2</sub>SO<sub>4</sub> + H<sub>2</sub>O Ternary System from Potential Difference Measurements at (298.15, 303.15 and 308.15)*, Journal of Chemical & Engineering Data, 2011, 56(12), pp.4935-4943, ACS Publications, ISSN: 0021-9568,WOS:00029

**Risi35.** Ion Ion, Alina Catrinel Ion, Alina Culetu, *Application on an exfoliated graphitic nanoplatelet-modified electrode for the determination of quintozen*, Materials Science and

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**Risi37.** A.C.Ion, I.Ion, A.Culetu, *Lead adsorption onto exfoliated graphitic nanoplatelets in aqueous solutions*, Materials Science and Engineering B Solid-State Materials for Advanced Technology, 2011, 176(6), pp. 504-509, Elsevier, ISSN 0921-5107,WOS:000289920600011, DOI: 10.1016/j.mseb.2010.07.021

**Risi38.** I.Ion, A.Culetu, J.Costa, C.Luca, A.C.Ion, *Polyvinyl chloride-based membranes of 3,7,11 - tris (2-pyridylmethyl)- 3,7,11,17-tetraazabicyclo [11.3.1] heptadeca-1(17),13,15-triene as a Pb(II)-selective sensor*, Desalination, 2010, 259(1-3), p.38-43, Elsevier, ISSN 0011-9164, WOS:000279963700006, DOI: 10.1016/j.desal.2010.04.038

**Risi39.** A.C.Ion, I. Ion, A.Culetu, D. Gherase, C.A.Moldovan, R.Iosub, A.Dinescu, *Acetylcholinesterase voltammetric biosensors based on carbon nanostructure chitosan composite material for organophosphate pesticides*, Materials Science and Engineering C: Materials for Biological Applications, 2010, 30(6), pp.817-821, Elsevier, ISSN 0928-4931,WOS:000279527600005, DOI: 10.1016/j.msec.2010.03.017

**Risi40.** S.Lupu, I. Ion, A.C.Ion, *Voltammetric determination of phenol at platinum electrodes modified with polypyrrole doped with ferricyanide* , Revue Roumaine de Chimie, 2009, 54 (5), pp. 351-357, Editura Academiei Române, ISSN 0035-3939,WOS:000270468200004

**Risi41.** A.C. Ion, I.Ion, D.N.Stefan, L.Barbu, *Possible mercury speciation in urine samples using potentiometric methods*, Materials Science and Engineering C: Biomimetic and Supramolecular Systems, 2009 , 29 (1), pp. 1-4, Elsevier, ISSN 0928-4931, WOS:000262136700001, DOI: 10.1016/j.msec.2008.05.001

**Risi42.** A.C. Ion, I.Ion, *Observations on some polar organic compounds in rural aerosols*, Revue Roumaine de Chimie, 2008, 53 (2), pp. 133-139, Editura Academiei Române, ISSN 0035-3939, WOS:000260534300007

**Risi43.** A.C.Ion, I. Ion, L. Barbu, *Optimization of preconcentration of cadmium and lead from samples with phosphate matrices using Chelex 100*, Revue Roumaine de Chimie, 2006, 51 (12), pp. 1199 -1205, Editura Academiei Române, ISSN 0035-3939,WOS:000248396600009

**Risi44.** I.Ion, I.Ion, A.C.Ion, L.Barbu, *Potentiometric determination of fluoride in groundwaters*, Revue Roumaine de Chimie, 2005, 50 (5), pp. 407 - 412, Editura Academiei Române, ISSN 0035-3939, WOS:000233575400010

**Risi45.** I. Ion, A.C.Ion, *Potentiometric speciation of iron(II) and iron(III) in fertilizers by titration with cobalt(II) chloride*, Revue Roumaine de Chimie, 2005, 50(4), pp. 263-268, Editura Academiei Române, ISSN 0035-3930, WOS:000232270300003

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**Risi59.** E.Diacu, F.G. Banica, **I. Ion**, E.Diacu, F.G. Banica, I. Ion, *Catalytic polarographic currents in the nickel-glutathione system.III. Catalytic hydrogen prewave*, Rev. Roum. Chim., 1994, 39(12), pp.283-289, Editura Academiei Române, ISSN 1224-7154, WOS:A1994PC02900006

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**b. Lucrări publicate în reviste de specialitate necotate ISI( Rnisi)**

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**Rnisi10.** C.Moldovan, R.Iosub, C.Radu, N.Codreanu, M.I.Marin, C.Codreanu, B.Fartat, D.Necula, A.Ion, I.Ion, T.Harvey, P.Summersgill, *Enzymatic Biosensor for Insecticides Detection*, CAS:2008 International Semiconductor Conference, p.147, Proceedings, 31<sup>st</sup> International Semiconductor Conference, oct 13-15, 2008, Romania, ISBN 978-1-4244-2004-9, WOS: 000267590800025, doi 10.1109/SMICND.2008.4703353

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