

**Carte (1)**

- 1) Livia Gheorghies, Alina Sion, Obținerea și analiza acoperirilor metalice de protecție, 2012, Ed. Tehnică, Științifică și Didactică „Cermi” Iași, ISBN 978-973-667-423-5.
- 2) Alina Sion, Cuantificarea gradului de poluare a solului. Studii de caz din județul Galați-zona industrială și Parcul Natural Lunca Joasa a Prutului Inferior, 2019, Ed. Galați University Press, Colectia Științe Ingineresti, ISBN 978-606-696-169-1 (316 pag.).

**Articole ISI (5)**

- 1) Ene A., Bosneaga A., Georgescu L. Determination of heavy metals in soils using XRF technique, p 815-820, (2010). Rom. Journ. Phys. 1221-146x, 55 (7-8)
- 2) Ene, A., Pantelica A., Freitas M.C., Bosneaga A. EDXRF and INAA analysis of soils in the vicinity of a metallurgical plant, 56 (7-8), p. 993-1000, (2011). Rom. Journal Phys. [http://www.nipne.ro/rjp/2011\\_56\\_7-8.html](http://www.nipne.ro/rjp/2011_56_7-8.html).
- 3) Ene, A., Bogdevich O., Sion A., Spanos T. Determination of polycyclic aromatic hydrocarbons by gas chromatography-mass spectrometry in soils from Southeastern Romania, 100, 36-41, (2012). Microchemical Journal, ISSN 0026-265X.
- 4) Ene, A., Bosneaga A., Georgescu L., Evaluation of soils pollution with heavy metals using XRF technique, 12 (3A) (2011). Journal of Environmental Protection and Ecology, ISSN 1311-5065.

*Erratum:*

<https://www.researchgate.net/publication/295154923> Erratum Evaluation of soils pollution with heavy metals using XRF technique Journal of Environmental Protection and Ecology 2011 12 1247-1254

5) Ene, A., Bogdevich O., Sion A. Levels and distribution of organochlorine pesticides (OCPs) and polycyclic aromatic hydrocarbons (PAHs) in topsoils from SE Romania, 439, (2012), 76-86. Science of the Total Environment  
<https://doi.org/10.1016/j.scitotenv.2012.09.004>

**Articole în reviste și volume a unor manifestări științifice indexate în alte baze de date internaționale (17)**

- 1) Ene A., Bosneaga A. Inter-element relationships for soils around a ferrous metallurgical plant, Year 10, No. 2 (13), p. 293-298, 2010. Journal of Sciences and Arts.
- 2) Renella G., Landi L., Bosneaga A., Arfaioi P., Ene A., Georgescu L.P., Quantitative measurements of the heavy metal content using sequential chemical extraction on Cu polluted soils, Year II(XXXIII) 2010, ISSN 2067 - 2071, p.160-165. Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics.
- 3) Renella G., Landi L., Bosneaga A., Arfaioi P., Ene A., Georgescu L. P., Determining the affinity of the elements in soils using a step by step protocol of sequential chemical extraction Year II(XXXIII) 2010, ISSN 2067 - 2071, p.166-171. Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics.
- 4) Renella G., Landi L., Bosneaga A., Arfaioi P., Ene A., Georgescu L. P. Determination of the level of soil pollution from soil solution using AAS technique, Year II(XXXIII) 2010, ISSN 2067 - 2071, p.172-175. Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics.
- 5) Renella G., Landi L., Bosneaga A., Arfaioi P., Ene A., Georgescu L. P. Determination of the toxicity of soil solution using the BIOTOX® method, Year II(XXXIII) 2010, ISSN 2067 - 2071, p.176-179. Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics.
- 6) Ene A., Bogdevich O., Bosneaga A. Determination of pesticides and polycyclic aromatic hydrocarbons in soils from Eastern part of Romania using GC and GC/MS techniques, Year II(XXXIII) 2010, ISSN 2067 - 2071, p.124-129. Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics.
- 7) Ene A., Sion (Bosneaga) A. Comparative study of high precision spectrometric techniques used for the assessment of trace elements in soils, , ISSN 1453-083X, p. 7-10, Special Issue-2011. The Annals of Dunarea de Jos University of Galati, Fascicle IX, Metallurgy and Materials Science, Year XXIX (XXXIV).
- 8) Ene A., Bogdevich O., Sion (Bosneaga) A. GC-MS analysis of selected PAHs in soils from Galati region, eastern part of Romania, Special Issue-2011, ISSN 1453-083X, p. 166-168. The Annals of Dunarea de Jos University of Galati, Fascicle IX, Metallurgy and Materials Science, Year XXIX (XXXIV).
- 9) Sion (Bosneaga) A., Calderaru A. C., Georgescu L. P., Ene A. A Complete Monitoring Analysis On Water And Soil From Prut River, Galati County, No. 1, p. 5-10, 2011. Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, Fascicle II, Year III (XXXIV)
- 10) Sion (Bosneaga) A., Ene A., Georgescu L. P., Index Of Geoaccumulation From Soils Collected From Urban And Industrial Sites, 2011, No. 1, p.11-14, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, Fascicle II, Year III (XXXIV).
- 11) Ene A., (Bosneaga) Sion A., Georgescu L., Bogdevich O. Monitoring Techniques For Inorganic And Organic Pollutants In Soils Around An Integrated Iron And Steel Plant, 4 (2011),p. 21-24 ISSN 1453-083X The Annals Of Dunarea De

*Alina Sion*

- Jos University Of Galati, Metallurgy And Materials Science, Year XXIX (XXXIV).
- 12) (Bosneaga) Sion A., Ene A., Georgescu L., Heavy Metals In Soils Near An Industrial Plant In Galati, Romania: Implications For The Population Health Risk, 2011, p. 299-302. Journal of Science and Arts, 11, No. 3(16).
- 13) A. Sion, A. Ene, Soil pollution evaluation for some pollutants in the Lower Prut meadow, Galati, 2013, 24-27. Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, FASCICLE II, YEAR V(XXXVI).
- 14) A. Sion, A. Ene, Soil morphology and qualitative study using SEM-EDX technique, 2013, 28-31. Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, FASCICLE II, YEAR V (XXXVI).
- 15) Sion A., Ene A., Zinc Solubility Determined In Industrial Soils, 2017, p.67-70. Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, FASCICLE II, YEAR IX (XL) 2017, No.2.
- 16) Sion, A., Cantaragiu, A., Ene, A. (2019) "Surface and elemental analysis of 20th century Romanian coins using SEM-EDX technique", *Analele Universității "Dunărea de Jos" din Galați. Fascicula II, Matematică, fizică, mecanică teoretică / Annals of the "Dunarea de Jos" University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics*, 42(2), pp. 153-159. doi: <https://doi.org/10.35219/ann-ugal-math-phys-mec.2019.2.05>.
- 17) Sion A., Ene. Sequential Chemical Extraction Of Copper From Clay: An Overview, ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI MATHEMATICS, PHYSICS, THEORETICAL MECHANICS FASCICLE II, YEAR Xiv (Xlv) 2022, No. 2, P 53-58, <https://doi.org/10.35219/ann-ugal-math-phys-mec.2022.2.03>
- 18) Alina Sion, Valerica Chitic, Antoaneta Ene, SEM-EDX analysis of paper, leather and metal lock from an 18<sup>th</sup> century church book, ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI MATHEMATICS, PHYSICS, THEORETICAL MECHANICS, FASCICLE II, YEAR XV (XLVI) 2023, No. 1, 52-58, DOI: <https://doi.org/10.35219/ann-ugal-math-phys-mec.2023>
- 19) Alina Sion, Andreea-Cătălina Gîrmacea, Antoaneta Ene, Mihaela Timofti, The effect of road and railway traffic on the soil quality from the Public Garden of Galati, Romania, ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI MATHEMATICS, PHYSICS, THEORETICAL MECHANICS, FASCICLE II, YEAR XV (XLVI) 2023, No. 1, 32-38,DOI: <https://doi.org/10.35219/ann-ugal-math-phys-mec.2023>.
- 20) Alina Sion, Antoaneta Ene, Pătrașcu Ariana, Heavy metal determination in agricultural soil collected from Brăila County, ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI MATHEMATICS, PHYSICS, THEORETICAL MECHANICS FASCICLE II, YEAR XV (XLVI) 2023, No. 2 DOI: <https://doi.org/10.35219/ann-ugal-math-phys-mec.2023>.
- 21) Alina Sion, Antoaneta Ene, Gabriela Cojocaru, Study of urban soil collected from a future residential complex area from Galati, Romania, ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI MATHEMATICS, PHYSICS, THEORETICAL MECHANICS FASCICLE II, YEAR XV (XLVI) 2023, No. 2 DOI: <https://doi.org/10.35219/ann-ugal-math-phys-mec.2023>.

**Articole publicate în reviste și nationale și volumelor unor manifestări științifice naționale și internaționale neindexate (5)**

- 1) Ene A., Bosneagă A., Ene A. Analysis and control of metallurgical materials using X- ray fluorescence technique and X-ray attenuation, 2008, p. 161-166 The Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Chemistry, Informatics, Supplement, Year II(XXXI) ISSN 1842-6506.
- 2) Bosneaga A., Ene A., Georgescu L., XRF multi-elemental analysis of topsoil near an industrial plant, p. 33-40. The Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Chemistry, Informatics, Supplement, Year III(XXXII) 2009, ISSN 1842-6506.
- 3) Bosneaga A., Georgescu L., Ene A. Soil pollution with heavy metals in Galati region, p. 41-48, 2009. The Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Chemistry, Informatics, Supplement, Year III(XXXII), ISSN 1842-6506.
- 4) Ene A., Stihă C., Popescu I.V., Gheboianu A., Bosneagă A., Bancuță I. Comparative studies on heavy metal content of soils using AAS and EDXRF atomic spectrometric techniques, p. 51-54, 2009. Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, Year I(XXXII) 2009, ISSN 2067 – 2071.
- 5) Ene A., Bosneagă A., Georgescu L., Gogonea V. XRF analysis of soils from Lower Prut Meadow, p. 55-58, 2009. Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, Year I(XXXII) 2009, ISSN 2067 – 2071.