

**LISTA LUCRARILOR ELABORATE SI/SAU PUBLICATE**  
**Prof. univ. dr. habil. ENE ANTOANETA**

**A. TEZA DE DOCTORAT**

“*Studiul structurii de microelemente a minereurilor de fier, aglomeratelor și produselor siderurgice corelate prin metode atomice și nucleare*”, Facultatea de Fizică, Universitatea din București, 1997.

Conducător științific: Prof. dr. Călin Beșliu, Facultatea de Fizică, Universitatea din București.

**TEZA DE ABILITARE**

“*Applications of high sensitivity analytical techniques in industry and pollution management for trace chemical composition characterization of complex samples*”, Universitatea Dunărea de Jos din Galați, 2015.

**B. ARTICOLE ȘTIINȚIFICE****1. Articole publicate in reviste indexate ISI-Thomson (Web of Science)*****Reviste indexate ISI***

1. Badica, T., Besliu, C., Ene, A., Olariu, A., Popescu, I., 1996, Coincidence method for the determination of minor elements in steel by proton- induced prompt gamma-ray spectrometry (PIGE), Nuclear Instruments and Methods in Physics Research B111, 321 – 324, ISSN 0168-583X.
2. Popescu, I., Badica, T., Olariu, A., Besliu, C., Ene, A., Ivanescu, Al., 1996, Multielemental analysis of metallurgical samples by thermal neutron activation, Journal of Radioanalytical and Nuclear Chemistry, Letters 213(5), 369–376, ISSN 0236-5731.
3. Ene, A., Badica, T., Olariu, A., Popescu, I.V., Besliu, C., 2001, Coincidence method for the analysis of minor elements in steel by deuteron-induced prompt g-ray spectrometry (d-PIGE), Nuclear Instruments and Methods in Physics Research, B179, 126 – 132, ISSN 0168-583X .
4. Lupu, R., Nat, A., Ene, A., 2004, Determination of gold in Romanian auriferous alluvial sands and rocks by 14 MeV neutron activation analysis, Nuclear Instruments and Methods in Physics Research, B217, 123 – 135, ISSN 0168-583X;.
5. Ene, A., 2004, Improvement of sensitivity in PIGE analysis of steels by neutron-gamma coincidences measurement, Nuclear Instruments and Methods in Physics Research B222, 228 – 234, ISSN 0168-583X
6. Nat, A., Ene, A., Lupu, R., 2004, Rapid determination of gold in Romanian auriferous alluvial sands, concentrates and rocks by 14 MeV NAA, Journal of Radioanalytical and Nuclear Chemistry 261(1), 179 – 188, ISSN 0236-5731.
7. Ene, A., Popescu, I.V., Badica, T., 2006, Determination of carbon in steels using particle-induced prompt gamma ray spectrometry, Journal of Optoelectronics and Advanced Materials 8(1), 222-224, ISSN 1454-4164.
8. Ghișă V., Popescu I. V., Belc M., Ene A., 2008, Study of some Roman brooches discovered at Tomis - Constanța by X-Ray Fluorescence technique, Rom. Journ. Phys. 53 (3-4), 557-562, ISSN 1221-146x.
9. G.Murariu, Antoaneta Ene, 2008, Discussions on a Non-Linear Fields' Equations System, Rom. Journ. Phys. 53 (5-6), 651-658, ISSN 1221-146x.
10. Ene A., Popescu I. V., Ghisa V., 2009, Study of transfer efficiencies of minor elements during steelmaking by neutron activation technique, Romanian Reports in Physics 61(1), 165-171, ISSN 1221-1451.
11. Moraru L., Ene A., Murariu G., 2009, High-accuracy structure identification of the aluminium eutectic alloys using the colour metallography, Romanian Reports in Physics 61(4), 700-708, ISSN 1221-1451.
12. Claudia Stihă, Ion V. Popescu, Anca Gheboianu, Marina Frontasyeva, Antoaneta Ene, Gabriel Dima, Oana Bute, Valerica Cimpoca, Valentin Stihă, Calin Oros, Sergiu Dinu, Marilena Voicu, Mineral content of native vegetables obtained by energy dispersive X- ray fluorescence spectrometry, Journal of Science and Arts, year 8 No. 2(9) – 2008, ISSN 1844 – 9581, p. 331-334.
13. Antoaneta Ene, Ion V. Popescu, Mariana Bahrim, Claudia Stihă, Anca Gheboianu, Neutron activation method applied in the study of transfer efficiencies of minor elements during steelmaking, Journal of Science and Arts, Anul 8 Nr. 1(8), 2008, p. 179-182, ISSN 1844-9581.
14. Elena Zubcov, Laurentia Ungureanu, Antoaneta Ene, Natalia Zubcov, Nina Bagrin, Natalia Borodin, Liubovi Lebedenco, Lucia Biletechi, Assessment of chemical compositions of water and ecological situation in Dniester river, Journal of Sciences and Arts, Year 10, No. 1 (12), pp. 47-52, 2010.
15. Antoaneta Ene, Ion V. Popescu, Claudia Stihă, Anca Gheboianu, Cristiana Radulescu, Nicolae Tigau, Steluta Gosav, Assessment of river water quality in Central and Eastern parts of Romania using atomic and optical methods, Journal of Sciences and Arts, Year 10, No. 1 (12), pp. 113-118, 2010.
16. Antoaneta Ene, Alina Bosneaga, Inter-element relationships for soils around a ferrous metallurgical plant, Journal of Sciences and Arts, Year 10, No. 2 (13), pp. 293-298, 2010

17. Elena Zubcov, Natalia Zubcov, Antoaneta Ene, Nina Bagrin, Lucia Bilecki, The dynamics of trace elements in Dniester river ecosystems, Journal of Sciences and Arts, Year 10, No. 2 (13), pp. 281-286, 2010.
18. Ene, A., Pantelica, A, 2010, Study of transfer of minor elements during ironmaking by neutron activation analysis, Radiochimica Acta, 98 (1) , 53-57, ISSN 0033-8230. DOI: 10.1524/ract.2010.1685
19. Ene, A., Popescu, I.V., Stih C., Gheboianu A., Pantelica A., Petre C., 2010, PIXE analysis of multielemental samples, Rom. Journ. Phys. ISSN 1221-146x, 55 (7-8), 806-814.
20. Ene, A., Bosneaga A., Georgescu L., 2010, Determination of heavy metals in soils using XRF technique, Rom. Journ. Phys. ISSN 1221-146x, 55 (7-8), 815-820.
21. Stih C., Radulescu C., Busuioc G., Popescu I. V., Gheboianu A., Ene A., 2011, Studies on accumulation of heavy metals from substrate to edible wild mushrooms, Rom. Journ. Phys. 56(1-2), 257–264.
22. Ene, A., Pantelica A., Freitas M.C., Bosneaga A., 2011, EDXRF and INAA analysis of soils in the vicinity of a metallurgical plant, Rom. Journal Phys. 56 (7-8), 993-1000.
23. Ene, A., Pantelica A., 2011, Characterization of metallurgical slags using low-level gamma-ray spectrometry and neutron activation analysis, Rom. Journal Phys. 56 (7-8), 1011-1018.
24. Pantelica A., Ene A., Gugiu M., Ciortea C., Constantinescu O., 2011, PIXE analysis of some vegetal species, Rom. Rep. Phys. 63(4), 997-1008.
25. Ene A., Bogdevich O., Sion A., Spanos T., 2012, Determination of polycyclic aromatic hydrocarbons by gas chromatography-mass spectrometry in soils from Southeastern Romania, Microchemical Journal, 100, 36-41, issn 0026-265X , doi:10.1016/j.microc.2011.08.006.
26. Pantelica A., Ene A., Georgescu I.I., 2012, Instrumental neutron activation analysis of some fish species from Danube River in Romania, Microchemical Journal, 103, 142-147, doi:10.1016/j.microc.2012.02.005.
27. Zubcov E., Zubcov N., Ene A., Bilecki L., 2012, Assessment of copper and zinc levels in fish from freshwater ecosystems of Moldova, Environmental Science and Pollution Research, 19(6), 2238-2247, ISSN: 0944-1344 (Print) 1614-7499 (Online) , doi: 10.1007/s11356-011-0728-5.
28. Ene A., Bogdevich O., Sion A., 2012, Levels of organochlorine pesticides (OCPs) and polycyclic aromatic hydrocarbons (PAHs) in topsoils from SE Romania, Science of the Total Environment, 439, 76–86, ISSN: 0048-9697, DOI: 10.1016/j.scitotenv.2012.09.004.
29. Pantelica A., Freitas M.C., Ene, A., Steinnes, E., 2013, Soil pollution with toxic trace elements in selected Romanian sites studied by instrumental neutron activation analysis, Radiochimica Acta, 101, 45-50, DOI: 10.1524/ract.2013.1989.
30. O.V. Ignatenko, V.A. Komar, S.V. Leonchik, N.A. Shempel, A. Ene, A. Cantaragiu, M.V. Frontasyeva, V.N. Shvetsov, 2013, Changes of nitrides characteristics in Li-N system synthesized at different pressures, Journal of Alloys and Compounds, 581, 23-27, DOI: 10.1016/j.jallcom.2013.06.173.
31. Thomas Spanos, Antoaneta Ene, Irina B. Karadjova, Assessment of Toxic Elements Cu, Cr, Ni, Pb, Cd, Hg, Zn, As and Hexavalent Chromium in Sewage Sludge from Municipal Wastewater Treatment Plants by Combined Spectroscopic Techniques, *Rom. Journ. Phys.* 60 (1-2) (2015), 237-245, ISSN 1221-146x.
32. Harmens, H., D. A. Norris, K. Sharps, G. Mills, R. Alber, Y. Aleksyienak, O. Blum, S.-M. Cucu-Man, M. Dam, L. De Temmerman, Ene, A., J. A. Fernández, J. Martinez-Abaigar, M. Frontasyeva, B. Godzik, Z. Jeran, P. Lazo, S. Leblond, S. Liiv, S.H. Magnússon, B. Maňkovská, G. Phil-Karlsson, J. Piispanen, J. Poikolainen, J.M. Santamaría, M. Skudnik, Z. Spiric, T. Stafilov, E. Steinnes, C. Stih, I. Suchara, L. Thöni, R. Todoran, L. Yurukova, H. G. Zechmeister, 2015, Heavy metal and nitrogen concentrations in mosses are declining across Europe whilst some "hotspots" remain in 2010, Environmental Pollution 200, 93-104, doi:10.1016/j.envpol.2015.01.036.
33. Spanos, Thomas, Antoaneta Ene, Christina Xatzixristou, Agelos Papaioannou, 2015, Assessment of Groundwater Quality and Hydrogeological Profile of Kavala Area, Northern Greece, Romanian Journal of Physics 60 (7-8), 1139-1150.
34. Spanos, T., Ene, A., Simeonova, P., 2015, Chemometric expertise of the quality of groundwater sources for domestic use, JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, 50(11), 1099 – 1107, DOI:10.1080/10934529.2015.1047646.
35. Pintilie, V., Ene, A., Georgescu, L.P., Moraru, L., Iticescu, C., 2016, Measurements of gross alpha and beta activity in drinking water from Galati region, Romania, Romanian Reports in Physics 68 (3), 1208–1220.
36. Moraru, L., Obreja, C.D., Moldovanu, S., Ene, A., Biswas, A., 2016, Blood pressure and flow values in small vessels angioarchitectures: application for diabetic retinopathy, Romanian Journal of Physics 61 (7-8), 1287-1298.
37. Spanos, T., Ene, A., Patronidou, C.S., Xatzixristou, C., 2016, Temporal variability of sewage sludge heavy metal content from Greek wastewater treatment plants, Ecological Chemistry and Engineering. S = Chemia i Inżynieria Ekologiczna. S, 23(2), 271-283, DOI:10.1515/eces-2016-0019.
38. Pintilie, V., Ene, A., Georgescu L.P., Moraru, D.I., 2017, Gross Alpha, Gross Beta and  $^{40}\text{K}$  Activities and Daily Effective Dose Due to Natural Radionuclides from Food Supplements, Romanian Journal of Physics 62 (7-8), Art. Nr. 703.
39. Stih C., Popescu I.V., Frontasyeva M., Radulescu C., Ene A., Culicov O., Zinicovscaia I., Dulama I.D., Cucu-Man S., Todoran R., Gheboianu A.I., Bucurica A., Bancuta I., Dima G., 2017, Characterization of Heavy Metal Air Pollution in Romania Using Moss Biomonitoring, Neutron Activation Analysis, and Atomic Absorption Spectrometry, Analytical Letters, 50(17), 2851–2858, DOI: 10.1080/00032719.2016.1275661.

40. Violeta Pintilie, Antoaneta Ene, Lucian P. Georgescu, Dana Iulia Moraru, Adelina Pintilie, Determination of gross alpha, gross beta, and natural radionuclides ( $^{210}\text{Po}$ ,  $^{210}\text{Pb}$ ,  $^{238}\text{U}$ ,  $^{232}\text{Th}$  and  $^{40}\text{K}$ ) activity concentrations in bread and their contribution to the effective dose, 2018, Romanian Journal of Physics, 63(1-2), Art. Nr. 801.
41. Violeta Pintilie, Antoaneta Ene, Lucian P. Georgescu, Adelina Georgiana Pintilie, Dana Iulia Moraru, Catalina Iticescu, Gross alpha, gross beta and radionuclides ( $^{210}\text{Po}$ ,  $^{210}\text{Pb}$ ,  $^{238}\text{U}$ ,  $^{232}\text{Th}$ ,  $^{226}\text{Ra}$  and  $^{40}\text{K}$ ) exposure assessment due to meat consumption, 2018, Journal of Radioanalytical and Nuclear Chemistry, 318(2), 991-1000, DOI:10.1007/s10967-018-6156-y.
42. Stefan Nickel; Winfried Schröder; Roman Schmalfuss; Maike Saathoff; Harry Harmens; Gina Mills; Marina V. Frontasyeva; Lambe Barandovski; Oleg Blum; Alejo Carballeira; Ludwig de Temmermann; Anatoly M. Dunaev; Antoaneta Ene; Hilde Fagerli; Barbara Godzik; Ilia Ilyin; Sander Jonkers; Zvonka Jeran; Pranvera Lazo; Sébastien Leblond; Siiri Liiv; Blanka Mankovska; Encarnación Núñez-Olivera; Juha Piispanen; Jarmo Poikolainen; Ion V. Popescu; Flora Qarri; Jesus Miguel Santamaría; Martijn Schaap; Mitja Skudnik; Zdravko Špirić; Trajce Stafilov; Eiliv Steiness; Claudia Stihl; Ivan Suchara; Hilde Thelle Uggerud; Harald G. Zechmeister, Modelling spatial patterns of correlations between concentrations of heavy metals in mosses and atmospheric deposition in 2010 across Europe, 2018, Environmental Sciences Europe, 30, Art. Nr. 53, pp 1-17, <https://doi.org/10.1186/s12302-018-0183-8>.
43. Gosav S., Ene A., Aflori M., Characterization and Discrimination of Plant Fossils by ATR-FTIR, XRD and Chemometric Methods, 2019, Romanian Journal of Physics, 64(1-2), Art. Nr. 806.
44. Hynes Jesudoss Rajesh, J. Senthil Kumar, Hesam Kamyab, J. Angela Jennifa Sujana, Omar Ali Al-Khashman, Yasemin Kuslu, Antoaneta Ene, B. Suresh, Modern Enabling Techniques and Adsorbents based Dye Removal with Sustainability Concerns in Textile Industrial Sector -A comprehensive review, Journal of Cleaner Production 272, 2020, 122636, <https://doi.org/10.1016/j.jclepro.2020.122636>.
45. Moraru SS, Ene A, Badila A. Physical and Hydro-Physical Characteristics of Soil in the Context of Climate Change. A Case Study in Danube River Basin, SE Romania. Sustainability 2020;12(21):9174, DOI: 10.3390/SU12219174
46. Simionov, Ira-Adeline; Cristea, Victor; Petrea, Stefan-Mihai; Mogodan, Alina; Nica, Aurelia); Strungaru, Stefan-Adrian; Ene, Antoaneta; Sarpe, D.A., HEAVY METAL EVALUATION IN THE LOWER SECTOR OF DANUBE RIVER, Scientific Papers-series e-Land Reclamation Earth Observation & Surveying Environmental Engineering 9 (2020) 11-16.
47. Ene A, Sloata F. XRF analysis of arsenic and selected metals in contaminated sand from the dismantling of industrial distillation plants, Journal of Science and Arts, Year 20, No. 4(53), pp. 1011-1018, 2020
48. Corobov R, Ene A, Trombitsky I, Zubcov E., The Prut River under Climate Change and Hydropower Impact. Sustainability, 2021, 3(1):66, <https://doi.org/10.3390/su13010066>.
49. Moghazy, N.M.; El-Tohamy, A.M.; Fawzy, M.M.; Awad, H.A.; Zakaly, H.M.H.; Issa, S.A.M.; Ene, A. Natural Radioactivity, Radiological Hazard and Petrographical Studies on Aswan Granites Used as Building Materials in Egypt. *Appl. Sci.* 2021, 11, 6471. <https://doi.org/10.3390/app11146471>
50. ALMisned, G.; Tekin, H.O.; Kavaz, E.; Bilal, G.; Issa, S.A.M.; Zakaly, H.M.H.; Ene, A. Gamma, Fast Neutron, Proton, and Alpha Shielding Properties of Borate Glasses: A Closer Look on Lead (II) Oxide and Bismuth (III) Oxide Reinforcement. *Appl. Sci.* 2021, 11, 6837. <https://doi.org/10.3390/app11156837>
51. Issa, S.A.M.; Zakaly, H.M.H.; Tekin, H.O.; Saudi, H.A.; Badawi, A.; Pyshkina, M.; Susoy, G.; Elazaka, A.I.; Ene, A. Exploring the FTIR, Optical and Nuclear Radiation Shielding Properties of Samarium-Borate Glass: A Characterization through Experimental and Simulation Methods. *Nanomaterials* 2021, 11, 1713. <https://doi.org/10.3390/nano11071713>
52. Tekin, H.O.; Bilal, G.; Zakaly, H.M.H.; Kilic, G.; Issa, S.A.M.; Ahmed, E.M.; Rammah, Y.S.; Ene, A, Newly Developed Vanadium-Based Glasses and Their Potential for Nuclear Radiation Shielding Aims: A Monte Carlo Study on Gamma Ray Attenuation Parameters. *Materials* 2021, 14, 3897. <https://doi.org/10.3390/ma14143897>
53. ALMisned, G.; Tekin, H.O.; Issa, S.A.M.; Ersundu, M.Ç.; Ersundu, A.E.; Kilic, G.; Zakaly, H.M.H.; Ene, A. Novel HMO-Glasses with  $\text{Sb}_2\text{O}_3$  and  $\text{TeO}_2$  for Nuclear Radiation Shielding Purposes: A Comparative Analysis with Traditional and Novel Shields. *Materials* 2021, 14, 4330. <https://doi.org/10.3390/ma14154330>
54. ALMisned, G.; Tekin, H.O.; Ene, A.; Issa, S.A.M.; Kilic, G.; Zakaly, H.M.H., A Closer Look on Nuclear Radiation Shielding Properties of  $\text{Eu}^{3+}$  Doped Heavy Metal Oxide Glasses: Impact of  $\text{Al}_2\text{O}_3/\text{PbO}$  Substitution. *Materials* 2021, 14, 5334. <https://doi.org/10.3390/ma14185334>
55. ALMisned, G.; Akman, F.; AbuShanab, W.S.; Tekin, H.O.; Kaçal, M.R.; Issa, S.A.M.; Polat, H.; Oltulu, M.; Ene, A.; Zakaly, H.M.H., Novel Cu/Zn Reinforced Polymer Composites: Experimental Characterization for Radiation Protection Efficiency (RPE) and Shielding Properties for Alpha, Proton, Neutron, and Gamma Radiations. *Polymers* 2021, 13, 3157. <https://doi.org/10.3390/polym13183157>
56. ALMisned, G.; Tekin, H.O.; Bilal, G.; Ene, A.; Kilic, G.; Issa, S.A.M.; Algethami, M.; Zakaly, H.M.H. Trivalent Ions and Their Impacts on Effective Conductivity at 300 K and Radio-Protective Behaviors of Bismo-Borate Glasses: A Comparative Investigation for Al, Y, Nd, Sm, Eu. *Materials* 2021, 14, 5894. doi: 10.3390/ma14195894
57. Mostafa, A.M.A.; Uosif, M.A.M.; Alrowaili, Z.A.; Elsaman, R.; Showahy, A.A.; Saddeek, Y.B.; Issa, S.A.M.; Ene, A.; Zakaly, H.M.H. The Influence of CoO/P2O5 Substitutions on the Structural, Mechanical, and Radiation Shielding of Boro-Phosphate Glasses. *Materials* 2021, 14, 6632. doi: 10.3390/ma14216632
58. ALMisned, G.; Zakaly, H.M.H.; Issa, S.A.M.; Ene, A; Kilic, G.; Bawazeer, O.; Almatar, A.; Shamsi, D.; Rabaa, E.; Sideig, Z.; Tekin, H.O. Gamma-Ray Protection Properties of Bismuth-Silicate Glasses against Some Diagnostic Nuclear Medicine Radioisotopes: A Comprehensive Study. *Materials* 2021, 14, 6668. doi: 10.3390/ma14216668

59. Zakaly, H.M.H.; Ene, A; Olarinoye, O.I.; Marzouk, S.Y.; Abdel-Hafez, S.H.; Shams, M.S.; Rammah, Y.S. Investigation of Er<sup>3+</sup> Ions Reinforced Zinc-Phosphate Glasses for Ionizing Radiation Shielding Applications. *Materials* 2021, 14, 6769. doi: 10.3390/ma14226769
60. Abulyazied, D.E.; Ene, A. An Investigative Study on the Progress of Nanoclay-Reinforced Polymers: Preparation, Properties, and Applications: A Review. *Polymers* 2021, 13, 4401. doi: 10.3390/polym13244401
61. ALMisned, G.; Elshami, W.; Issa, S.A.M.; Susoy, G.; Zakaly, H.M.H.; Algethami, M.; Rammah, Y.S.; Ene, A.; Al-Ghamdi, S.A.; Ibraheem, A.A.; Tekin, H.O. Enhancement of Gamma-ray Shielding Properties in Cobalt-Doped Heavy Metal Borate Glasses: The Role of Lanthanum Oxide Reinforcement. *Materials* 2021, 14, 7703. doi: 10.3390/ma14247703
62. Hesham M.H. Zakaly, H.A. Saudi, H.O. Tekin, M. Rashad, Shams A.M. Issa, Y.S. Rammah, A.I. Elazaka, M.M. Hessien, Antoaneta Ene, Glass fabrication using ceramic and porcelain recycled waste and lithium niobate: physical, structural, optical and nuclear radiation attenuation properties, *Journal of Materials Research and Technology* 15 (2021) 4074-4085, ISSN 2238-7854, <https://doi.org/10.1016/j.jmrt.2021.09.138>
63. Elshami W, Tekin HO, Issa SAM, Abuzaid MM, Zakaly HMH, Issa B, Ene, A. Impact of Eye and Breast Shielding on Organ Doses During Cervical Spine Radiography: Design and Validation of MIRD Computational Phantom. *FRONTIERS IN PUBLIC HEALTH* 9 (2021) 751577, doi: 10.3389/fpubh.2021.75157
64. Caprita, F.-C.; Ene A.; Cantaragiu Ceoromila, A. Valorification of *Ulva rigida* Algae in Pulp and Paper Industry for Improved Paper Characteristics and Wastewater Heavy Metal Filtration. *Sustainability* 2021, 13, 10763. doi: 10.3390/su131910763
65. Teodorof, L.; Ene A.; Burada, A.; Despina, C.; Seceleanu-Odor, D.; Trifanov, C.; Ibram, O.; Bratfanof, E.; Tudor, M.-I.; Tudor, M.; Cernisencu, I.; Georgescu, L.P.; Iticescu, C. Integrated Assessment of Surface Water Quality in Danube River Chilia Branch. *Appl. Sci.* 2021, 11, 9172. doi: 10.3390/app11199172
66. Chițescu, C.L.; Ene A.; Geana, E.-I.; Vasile, A.M.; Ciucure, C.T. Emerging and Persistent Pollutants in the Aquatic Ecosystems of the Lower Danube Basin and North West Black Sea Region—A Review. *Appl. Sci.* 2021, 11, 9721. doi: 10.3390/app11209721
67. Ion, I.V.; Ene A. Evaluation of Greenhouse Gas Emissions from Reservoirs: A Review. *Sustainability* 2021, 13, 11621. doi: 10.3390/su132111621
68. Kovalyshyna, S.; Chuzhekova, T.; Grandova, M.; Onishchenko, E.; Zubcov, E.; Ukrainskyy, V.; Goncharov, O.; Munjiu, O.; Nabokin, M.; Ene A., Ecological Conditions of the Lower Dniester and Some Indicators for Assessment of the Hydropower Impact. *Appl. Sci.* 2021, 11, 9900. doi: 10.3390/app11219900
69. ALMisned, G.; Tekin, H.O.; Zakaly, H.M.H.; Issa, S.A.M.; Kilic, G.; Saudi, H.A.; Algethami, M.; Ene A.. Fast Neutron and Gamma-Ray Attenuation Properties of Some HMO Tellurite-Tungstate-Antimonate Glasses: Impact of Sm<sup>3+</sup> Ions. *Appl. Sci.* 2021, 11, 10168. doi: 10.3390/app112110168
70. Coretchi, L.; Ene A.; Ababii, A. Control of the Health Risk of Radon Exposure in the Republic of Moldova. *Atmosphere* 2021, 12, 1302. <https://doi.org/10.3390/atmos12101302>
71. HO Tekin, G ALMisned, G Susoy, HMH Zakaly, SAM Issa, G Kilic, Yasser Saad Rammah, Gandham Lakshminarayana, Antoaneta Ene, A detailed investigation on highly dense CuZr bulk metallic glasses for shielding purposes, *Open Chemistry* 20 , 69-80, 2022
72. AE Abdel Gawad, Ene A., SG Skublov, AK Gavrilchik, MA Ali, MM Ghoneim, AV Nastavkin, Trace element geochemistry and genesis of beryl from Wadi Nugrus, South Eastern Desert, Egypt, *Minerals* 12 , 206, 2022
73. HO Tekin, G ALMisned, HMH Zakaly, A Zamil, D Khoucheich, G Bilal, Lubna Al-Sammaraie, Shams AM Issa, Mohammed Sultan Al-Buriahi, Antoaneta Ene, Gamma, neutron, and heavy charged ion shielding properties of Er<sup>3+</sup>-doped and Sm<sup>3+</sup>-doped zinc borate glasses, *Open Chemistry* 20 , 130-145, 2022
74. Huseyin O Tekin, Ghada ALMisned, Gulfem Susoy, Fatema T Ali, Duygu Sen Baykal, Antoaneta Ene Shams AM Issa, Yasser S Rammah, Hesham MH Zakaly, Transmission Factor (TF) Behavior of Bi<sub>2</sub>O<sub>3</sub>–TeO<sub>2</sub>–Na<sub>2</sub>O–TiO<sub>2</sub>–ZnO Glass System: A Monte Carlo Simulation Study, *Sustainability* 14 , 2893, 2022
75. HO Tekin, Gulfem Susoy, Shams AM Issa, Antoaneta Ene, Ghada ALMisned, YS Rammah, Fatema T Ali, Merfat Algethami, Hesham MH Zakaly, Heavy Metal Oxide (HMO) glasses as an effective member of glass shield family: A comprehensive characterization on gamma ray shielding properties of various structures, *Journal of Materials Research and Technology* 18, 231-244, 2022
76. El Saeed R Lasheen, Mokhles K Azer, Antoaneta Ene, Wael Abdelwahab, Hesham MH Zakaly, Hamdy A Awad, Nilly A Kawady, Radiological Hazards and Natural Radionuclide Distribution in Granitic Rocks of Homrit Wagga Area, Central Eastern Desert, Egypt, *Materials* 15 (12), 4069, 2022
77. Huseyin Ozan Tekin, Ghada ALMisned, Yasser Saad Rammah, Gulfem Susoy, Fatema T Ali, Duygu Sen Baykal, Hesham MH Zakaly, Shams AM Issa, Antoaneta Ene, Mechanical properties, elastic moduli, transmission factors, and gamma-ray-shielding performances of Bi<sub>2</sub>O<sub>3</sub>–P<sub>2</sub>O<sub>5</sub>–B<sub>2</sub>O<sub>3</sub>–V<sub>2</sub>O<sub>5</sub> quaternary glass system, *Open Chemistry* 20 , 314-329, 2022
78. Hamdy A Awad, Ibrahim Abu El-Leil, Aleksey V Nastavkin, Abdellah Tolba, Mostafa Kamel, Refaey M El-Wardany, Abdalla Rabie, Antoaneta Ene, Huseyin O Tekin, Shams AM Issa, Hesham MH Zakaly, Statistical analysis on the radiological assessment and geochemical studies of granite rocks in the north of Um Taghir area, Eastern Desert, Egypt, *Open Chemistry* 20 , 254-266, 2022
79. Ghada ALMisned, Gokhan Kilic, Erkan Ilik, Shams AM Issa, Hesham MH Zakaly, Ali Badawi, U Gokhan Issever, HO Tekin, Antoaneta Ene, Structural characterization and Gamma-ray attenuation properties of rice-like α-TeO<sub>2</sub> crys-

- talline microstructures (CMS) grown rapidly on free surface of tellurite-based glasses, Journal of Materials Research and Technology 16, 1179-1189, 2022
80. ESR Lasheen, WH Mohamed, Antoaneta Ene, HA Awad, MK Azer, Implementation of petrographical and aeromagnetic data to determine depth and structural trend of Homrit Wagga area, central Eastern Desert, Egypt, Applied Sciences 12 (17), 8782, 2022
  81. MM El Dabe, AM Ismail, M Metwaly, SA Taalab, MY Hanfi, A Ene, Hazards of Radioactive Mineralization Associated with Pegmatites Used as Decorative and Building Material, Materials 15 (3), 1224, 2022
  82. G ALMisned, DS Baykal, G Susoy, G Kilic, HMH Zakaly, A Ene, HO Tekin, Determination of gamma-ray transmission factors of  $\text{WO}_3\text{-TeO}_2\text{-B}_2\text{O}_3$  glasses using MCNPX Monte Carlo code for shielding and protection purposes, Applied Rheology 32 , 166-177, 2022
  83. G ALMisned, DS Baykal, G Kilic, G Susoy, HMH Zakaly, A Ene, HO Tekin, Assessment of the usability conditions of  $\text{Sb}_2\text{O}_3\text{-PbO}\text{-B}_2\text{O}_3$  glasses for shielding purposes in some medical radioisotope and a wide gamma-ray energy spectrum, Applied Rheology 32 , 178-189, 2022
  84. GA Alharshan, MS Kamar, ESR Lasheen, A Ene, MAM Uosif, HA Awad, Shams AM Issa, Hesham MH Zakaly, Distribution of Radionuclides and Radiological Health Assessment in Seih-Sidri Area, Southwestern Sinai, International Journal of Environmental Research and Public Health 19 (17), 10717, 2022
  85. RU Erdemir, G Kilic, DS Baykal, G ALMisned, SAM Issa, HMH Zakaly, Antoaneta Ene, Huseyin Ozan Tekin, Diagnostic and therapeutic radioisotopes in nuclear medicine: Determination of gamma-ray transmission factors and safety competencies of high-dense and transparent glassy shields, Open Chemistry 20 , 517-524, 2022
  86. Hesham MH Zakaly Huseyin Ozan Tekin, Ghada Almisned, Shams AM Issa, Emel Serdaroglu Kasikci, Mahreen Arooj, Antoaneta Ene, MS Al-Buriahi, Muhsin Konuk, Molecular polar surface area, total solvent accessible surface area (SASA), heat of formation and gamma ray attenuation properties of some flavonoids, Frontiers in Physics 10, 838725, 2022
  87. HO Tekin, FT Ali, G Almisned, G Susoy, SAM Issa, A Ene, W Elshami, Hesham MH Zakaly, Multiple assessments on the gamma-ray protection properties of niobium-doped borotellurite glasses: A wide range investigation using Monte Carlo simulations, Science and Technology of Nuclear Installations 2022, 2022, 5890896
  88. HMH Zakaly, YS Rammah, HO Tekin, A Ene, A Badawi, SAM Issa, Nuclear shielding performances of borate/sodium/potassium glasses doped with  $\text{Sm}^{3+}$  ions, Journal of Materials Research and Technology 18, 1424-1435, 2022
  89. MAH Sakr, AE Omar, A Ene, MY Hanfi, Effect of Various Proportions of Rice Husk Powder on Swelling Soil from New Cairo City, Egypt, Applied Sciences 12 (3), 1616, 2022
  90. AA Alluhaybi, A Alharbi, AM Hameed, AA Gouda, FS Hassen, Hassan S El-Gendy, Bahig M Atia, Amany R Salem, Mohamed A Gado, Antoaneta Ene, Hamdy A Awad, Hesham MH Zakaly, A Novel Triazole Schiff Base Derivatives for Remediation of Chromium Contamination from Tannery Waste Water, Molecules 27 (16), 5087, 2022
  91. AM Abdel-Rahman, HM El-Desoky, BNA Shalaby, H Awad, A Ene, MA Heikal, H El-Awny, W Fahmy, SA Taalab, HM Zakaly, Ultramafic rocks and their alteration products from Northwestern Allaqa Province, South Eastern Desert, Egypt: Petrology, mineralogy, and geochemistry, Frontiers in Earth Science 10, 894582, 2022
  92. HA Saudi, HT Abedelkader, SAM Issa, HM Diab, GA Alharshan, Uosif, M.A.M.; Bashter, I.I.; A Ene; Ghazaly, M.E.; Zakaly, H.M.H., An In-Depth Examination of the Natural Radiation and Radioactive Dangers Associated with Regularly Used Medicinal Herbs, International Journal of Environmental Research and Public Health 19 (13), 8124, 2022
  93. HMH Zakaly, HO Tekin, G ALMisned, EM Ahmed, SAM Issa, A Ene, YS Rammah, Mechanical properties as well as gamma-ray attenuation competence: a wide-ranging examination into  $\text{Tb}^{3+}$  doped boro-germanate-aluminophosphate (BGAP) glasses, Journal of Materials Research and Technology 18, 5062-5074, 2022
  94. NRJ Hynes, NJ Vignesh, C Barile, PS Velu, T Baskaran, JTW Jappes, Omar Ali Al-Khashman, Michail Brykov, Antoaneta Ene, Green Corrosion Inhibition on Carbon-Fibre-Reinforced Aluminium Laminate in  $\text{NaCl}$  Using Aerva Lanta Flower Extract, Polymers 14 (9), 1700, 2022
  95. HA Awad, Abu El-Leil, RM El-Wardany, A Ene, A Tolba, Mostafa Kamel, Aleksey Nastavkin, Hesham MH Zakaly, MINERALOGY AND RADIOACTIVITY LEVEL OF THE NEW OCCURRENCE OF ILMENITE BEARING GABBRO AT ABU MURRAT, NORTHEASTERN DESERT, EGYPT, Romanian Journal of Physics 67 (3-4), 803, 2022
  96. HO Tekin, G ALMisned, SAM Issa, HMH Zakaly, G Kilic, Antoaneta Ene, Calculation of  $\text{NaI}$  (Tl) detector efficiency using  $226\text{Ra}$ ,  $232\text{Th}$ , and  $40\text{K}$  radioisotopes: Three-phase Monte Carlo simulation study, Open Chemistry 20, 541-549, 2022
  97. MM Abuzaid, HO Tekin, W Elshami, G Almisned, A Ene, HMH Zakaly, Radiation dose assessment in multiple injured patients using whole-body computed tomography, Journal of Radiation Research and Applied Sciences 15, 100465, 2022
  98. ESR Lasheen, HMH Zakaly, BM Alotaibi, DA Saadawi, A Ene, D Fathy, Hamdy A Awad, Raafat M El Attar Radiological Risk Parameters of the Phosphorite Deposits, Gebel Qulu El Sabaya: Natural Radioactivity and Geochemical Characteristics, Minerals 12 (11), 1385, 2022
  99. HO Tekin, G ALMisned, YS Rammah, EM Ahmed, FT Ali, DS Baykal, Wiam Elshami, Hesham MH Zakaly, Shams AM Issa, G Kilic, Antoaneta Ene, Transmission factors, mechanical, and gamma ray attenuation properties of barium-phosphate-tungsten glasses: Incorporation impact of  $\text{WO}_3$ , Optik 267, 169643, 2022

- 100.HM El-Desoky, AW Tende, AM Abdel-Rahman, A Ene, HA Awad, Wael Fahmy, Hamada El-Awny, Hesham MH Zakaly, Hydrothermal alteration mapping using landsat 8 and ASTER data and geochemical characteristics of Pre-cambrian rocks in the Egyptian shield: A Case Study from Abu Ghalaga, Southeastern Desert, Egypt, *Remote Sensing* 14 (14), 3456, 2022
- 101.YS Rammah, SAM Issa, HO Tekin, A Badawi, Antoaneta Ene, HMH Zakaly, Binary contributions of Dy<sup>3+</sup> ions on the mechanical and radiation resistance properties of oxyfluoroborotellurite Dyx-glasses, *Journal of Materials Research and Technology* 18, 820-829, 2022
- 102.M Ahmad, KA Aly, A Dahshan, Y Saddeek, HMH Zakaly, AM Abd Elnaeim, Antoaneta Ene, Physical Characterization and Crystallization Kinetics of Amorphous BiSe Chalcogenide Glasses, *Journal of Materials Research and Technology* 16, 1114-1121, 2022 .
- 103.ALMisned, DS Baykal, G Kilic, E Ilik, HMH Zakaly, Antoaneta Ene, HO Tekin, A critical evaluation on nuclear safety properties of novel cadmium oxide-rich glass containers for transportation and waste management: Benchmarking with a reinforced concrete container, *Frontiers in Physics* 10, 1080354 (2022)
- 104.Antoaneta Ene, HMH Zakaly, AR Salem, AA Gouda, K Althumayri, KF Alshammari, Hamdi A Awad, Shams AM Issa, Ahmad A Alluhaybi, Salah A Zaki, Hala A Ibrahim, Mohamed A Gado, Enass M El-Sheikh, Bahig M Atia, A New Partially Phosphorylated Polyvinyl Phosphate-PPVP Composite: Synthesis and Its Potentiality for Zr (IV) Extraction from an Acidic Medium, *Separations* 9 (11), 382 (2022)
- 105.HMH Zakaly, HO Tekin, YS Rammah, SAM Issa, AH Alomari, FT Ali, Duygu Sen Baykal, Wiam Elshami, DE Abulyazied, Ghada ALMisned, AMA Mostafa, Antoaneta Ene, Physical Features of High-Density Barium–Tungstate–Phosphate (BTP) Glasses: Elastic Moduli, and Gamma Transmission Factors, *Electronics* 11 (24), 4095 (2022)
- 106.NRJ Hynes, S Raja, R Tharmaraj, M Brykov, Antoaneta Ene, Investigation on Impact Strength of Friction Stud Welded AA6061-B4C Composite/AISI 1030 Steel Joints in Inert Gas Atmosphere, *Processes* 10 (10), 2052 (2022)
- 107.G ALMisned, HMH Zakaly, FT Ali, SAM Issa, Antoaneta Ene, G Kilic, V Ivanov, HO Tekin, A closer look at the efficiency calibration of LaBr<sub>3</sub> (Ce) and NaI (Tl) scintillation detectors using MCNPX for various types of nuclear investigations, *Heliyon*, 8(10), e10839, 2022
- 108.Elmas, HHK Sahin, E Keskin, B Guven, RU Erdemir, G ALMisned, Hesham MH Zakaly, Antoaneta Ene, Huseyin Ozan Tekin, Clinical comprehensive and experimental assessment of the radioprotective effect of Annona muricata leaf extract to prevent cellular damage in the ileum tissue, *Open Chemistry* 20, 929-938, 2022
- 109.Elmas, HHK Sahin, B Guven, MM Abuzaid, W Elshami, G ALMisned, Hesham MH Zakaly, Antoaneta Ene, Huseyin Ozan Tekin, A focusing study on radioprotective and antioxidant effects of Annona muricata leaf extract in the circulation and liver tissue: Clinical and experimental studies, *Open Chemistry* 20, 920-928, 2022
- 110.A Kavaz Yüksel, HMH Zakaly, Antoaneta Ene, Evaluation of Photon Interaction Parameters of Some Antioxidants for Food Irradiation Applications, *Materials* 15 (18), 6376, 2022
- 111.HM El-Desoky, AM Abdel-Rahman, Antoaneta Ene, AE Khalil, W Fahmy, Hesham MH Zakaly, Hamdy A Awad, Origin and Heavy Metals of Plagio-Granites in Egyptian Shield Oceanic Complexes: A Case Study of Abu Dabbab Area, Central Eastern Desert, Egypt, *Minerals* 12 (9), 1093, 2022
- 112.SAM Issa, G Almisned, HO Tekin, HMH Zakaly, Antoaneta Ene, AA Ibraheemh, YS Rammah, Comprehensive evaluation on gamma radiation resistance of chromium (III) ions incorporated bismuth fluoro-lead-borate glasses, *Optik* 268, 169809, 2022
- 113.NRJ Hynes, R Sankaranarayanan, JAJ Sujana, GM Krolczyk, Antoaneta Ene, Decision tree approach based green flow-drilling of hybrid aluminium matrix composites using eco-friendly coolants, *Journal of Manufacturing Processes* 80, 178-186, 2022
- 114.MK Gurunathan, NRJ Hynes, OA Al-Khashman, M Brykov, N Ganesh, Antoaneta Ene, Study on the Impact and Water Absorption Performance of Prosopis juliflora & Glass Fibre Reinforced Epoxy Composite Laminates, *Polymers* 14 (15), 2973, 2022
- 115.M Rashad, S Helali, S Issa, S Al-Ghamdi, M Alsharif, AO Alzahrani, Mohamed Sobhi, Antoaneta Ene, Alaa M Abd-Elnaem, Adsorption Study of Congo Red Dye from Synthetic Wastewater at Different Concentrations Using Zinc Sulfide Nanoparticles, *Materials* 15 (14), 5048, 2022
- 116.HO Tekin, F Almisned, TT Erguzel, MM Abuzaid, W Elshami, Antoaneta Ene, Shams AM Issa, Hesham MH Zakaly, Utilization of artificial intelligence approach for prediction of DLP values for abdominal CT scans: A high accuracy estimation for risk assessment, *Frontiers in Public Health* 10, 892789, 2022
- 117.AMA Mostafa, BO Elbashir, SAM Issa, MAM Uosif, Antoaneta Ene, M Algethami, Omemh Bawazeer, EF El Agammy, Hesham MH Zakaly, Influence of combining Al<sub>2</sub>O<sub>3</sub>, La<sub>2</sub>O<sub>3</sub>, Gd<sub>2</sub>O<sub>3</sub>, and Dy<sub>2</sub>O<sub>3</sub> with barium borosilicate Glass-ceramics: A case study of gamma radiation interaction parameters, *Journal of Materials Research and Technology* 19, 1972-1981, 2022
- 118.HA Awad, IA El-Leil, NV Granovskaya, Antoaneta Ene, A Tolba, M Kamel, Aleksey Nastavkin, Refaey M El-Wardany, Hesham MH Zakaly, PETROTECTONIC AND GEOCHEMISTRY OF ABU MURRAY ILMENITE BEARING GABBRO, NE DESERT, EGYPT, *Romanian Journal of Physics* 67 (5-6), 808, 2022
- 119.M Algethami, AA Ibraheem, SAM Issa, HO Tekin, Antoaneta Ene, M Pyshkina, Mohamed Rashad, Ghada ALMisned, Hesham MH Zakaly, A comprehensive evaluation of the attenuation characteristics of some sliding bearing alloys under 0.015–15 MeV gamma-ray exposure, *Materials* 15 , 2464, 2022

- 120.HMH Zakaly, HA Awad, NM Moghazi, HO Tekin, A Rabie, MM Fawzy, Amira M El-Tohamy, Antoaneta Ene, Shams AM Issa, Analysis of the Radiological, Mineralogical and Long-Term Sustainability of Several Commercial Aswan Granites Used as Building Materials, *Sustainability* 14 (6), 3553,2022
- 121.S Mitkidou, N Kokkinos, E Emmanouilidou, Y Yohannah, T Spanos, Christina Chatzichristou, Antoaneta Ene, Investigation of Petroleum Hydrocarbon Fingerprints of Water and Sediment Samples of the Nestos River Estuary in Northern Greece, *Applied Sciences* 12 (3), 1636, 2022
- 122.El-Taher, Atef; Ashry, Ahmed; Ene, Antoaneta; Almeshari, Meshari; Zakaly, Hesham M. H., DETERMINATION OF PHOSPHATE ROCK MINES SIGNATURES USING XRF AND ICP-MS ELEMENTAL ANALYSIS TECHNIQUES: RADIONUCLIDES, OXIDES, RARE EARTH, AND TRACE ELEMENTS, *ROMANIAN REPORTS IN PHYSICS*, 75(2), 701, 2023.
- 123.Ene, Antoaneta; Pantelica, Ana; Sloata, Florin; Zakaly, Hesham M. H.; Tekin, Huseyin Ozan, GAMMA SPECTROMETRY ANALYSIS OF NATURAL AND MAN-MADE RADIOACTIVITY AND ASSESSMENT OF RADIOLOGICAL RISK IN SOILS AROUND STEEL INDUSTRY, *ROMANIAN JOURNAL OF PHYSICS*, 68(7-8), 803, <https://doi.org/10.59277/RomJPhys.2023.68.803>
- 124.Fathy, Douaa; Zakaly, Hesham M. H. S.; Lasheen, El Saeed R.; Elsaman, Reda A.; Alarifi, Saad; Sami, Mabrouk; Awad, Hamdy; Ene, Antoaneta, Assessing geochemical and natural radioactivity impacts of Hamadat phosphatic mine through radiological indices, *PLOS ONE* 18(8), e0287422, 2023, <http://dx.doi.org/10.1371/journal.pone.0287422>
- 125.Kamal, Mohamed; Shen, Jinsong; Othman, Adel Ali Ali; Araffa, Sultan Awad Sultan; Tekin, H. O.; Ene, Antoaneta; Abdel-latif, Abdel-Sattar A.; Zakaly, Hesham M. H., Integrated geophysical techniques applied for petroleum basins structural characterization in the central part of the Western Desert, Egypt, *OPEN CHEMISTRY*, 21(1), 20220293, 2023, <http://dx.doi.org/10.1515/chem-2022-0293>
- 126.Abd El Aal, Ahmed; Abdulla, Gamil M. S.; Zakaly, Hesham M. H.; Awad, Hamdy A.; Omar, Ali E.; Sakr, Mohamed A. H.; Ene, Antoaneta, Geotechnical aspects of alluvial soils at different depths under sodium chloride action in Najran region, Saudi Arabia: Field supported by laboratory tests, *FRONTIERS IN ENVIRONMENTAL SCIENCE*, 11, 1073718, 2023, <http://dx.doi.org/10.3389/fenvs.2023.1073718>
- 127.Cakici, T.; Ozdal, O. Gur; Almousa, N.; Yildiz, F.; Khalil, H.; Ene, Antoaneta; Zakaly, Hesham M. H.; Perisanog, E. Kavaz, Bacterial MgSe complex nanoparticle synthesis and electrical characterization of fabricated Ag/MgSe/p-Si hetero-structure under dark and illumination, *HELIYON* 9(11), e21678, 2023, <http://dx.doi.org/10.1016/j.heliyon.2023.e21678>
- 128.Sami, Mabrouk; Adam, Munir M. A.; Lv, Xinpiao; Lasheen, El Saeed R.; Ene, Antoaneta; Zakaly, Hesham M. H.; Alarifi, Saad S.; Mahdy, Nasser M.; Rahman, Abdel Rahman A. Abdel; Saeed, Adil; Farahat, Esam S.; Fathy, Douaa; Ali, Shehata, Petrogenesis and Tectonic Implications of the Cryogenian I-Type Granodiorites from Gabgaba Terrane (NE Sudan), *MINERALS*, 13(3), 331, 2023, <http://dx.doi.org/10.3390/min1303031>
- 129.Taalab, Sherif A.; Zakaly, Hesham M. H.; Ivanov, V.; Alrowaily, Albandari W.; Awad, Hamdy A.; Abed, Neveen S.; Issa, Shams A. M.; Eltohamy, Amira M.; Ene, Antoaneta, Notable changes in geochemical and mineralogical characteristics of different phases of episyenitization: insights on the radioactive and shielding of the late phase, *FRONTIERS IN EARTH SCIENCE*, 11,1241975, 2023, <http://dx.doi.org/10.3389/feart.2023.1241975>
- 130.Rashwan, Mohammed A.; Lasheen, El Saeed R.; Abdelwahab, Wael; Azer, Mokhles K.; Zakaly, Hesham M. H.; Alarifi, Saad S.; Ene, Antoaneta; Thabet, Ismail A., Physico-mechanical properties and shielding efficiency in relation to mineralogical and geochemical compositions of Um Had granitoid, Central Eastern Desert, Egypt, *FRONTIERS IN EARTH SCIENCE*, 11, 1228489, 2023, <http://dx.doi.org/10.3389/feart.2023.1228489>
- 131.Coretchi, Liuba; Ene, Antoaneta; Virlan, Serghei; Gincu, Mariana; Ababii, Aurelia; Capatina, Angela; Overcenco, Alila; Sargu, Valentin, Children's Exposure to Radon in Schools and Kindergartens in the Republic of Moldova, *ATMOSPHERE*, 14(1), 11, 2023, <http://dx.doi.org/10.3390/atmos14010011>
- 132.Taalab, Sherif A.; Abdel-Rahman, Ahmed M.; El-Awny, Hamada; Awad, Hamdy A.; Zakaly, Hesham M. H.; Fahmy, Wael; Ene, Antoaneta, Petrogenesis and Tectonic Evolution of Kab Amiri Ophiolites and Island-Arc Assemblages, Central Eastern Desert, Egypt: Petrological and Geochemical Constraints, *MINERALS*, 13(4), 528, 2023, <http://dx.doi.org/10.3390/min13040528>
- 133.El-Ghazzawy, Enas H.; Zakaly, Hesham M. H.; Alrowaily, Albandari W.; Saafan, Samia A.; Ene, Antoaneta; Aboaita, Nagat M.; Darwish, Moustafa A.; Zhou, Di; Atlam, Ahmed S., Delving into the properties of nanostructured Mg ferrite and PEG composites: A comparative study on structure, electrical conductivity, and dielectric relaxation, *HELIYON*, 9(9), e19745, 2023, <http://dx.doi.org/10.1016/j.heliyon.2023.e19745>
- 134.ALMisned, Ghada; Sen Baykal, Duygu; Ilik, Erkan; Abuzaid, Mohammed; Issa, Shams A. M.; Kilic, G.; Zakaly, Hesham M. H.; Ene, Antoaneta; Tekin, H. O., Tungsten (VI) oxide reinforced antimony glasses for radiation safety applications: A throughout investigation for determination of radiation shielding properties and transmission factors, *HELIYON*, 9 (7), e17838, 2023, <http://dx.doi.org/10.1016/j.heliyon.2023.e17838>
- 135.Deliormanli, AM; ALMisned, G; Ene, A; Tekin, HO, Graphene-bioactive glass composites: Structural, Vickers hardness, and gamma-ray attenuation characteristics, *FRONTIERS IN MATERIALS* 10, 1179502, 2023, <http://dx.doi.org/10.3389/fmats.2023.179502>
- 136.Uosif, Mohamed A. M.; Issa, Shams A. M.; Ene, Antoaneta; Mostafa, Ahmed M. A.; Atta, Ali; El Agammy, Emam F.; Zakaly, Hesham M. H., Lead-Free Ternary Glass for Radiation Protection: Composition and Performance Evaluation for Solar Cell Coverage, *MATERIALS*,16(8), 3036, 2023, <http://dx.doi.org/10.3390/mal6083036>

137. ALMisned, Ghada; Elshami, Wiam; Rabaa, Elaf; Kilic, G.; Ilik, E.; Sen Baykal, Duygu; Ene, Antoaneta; Tekin, H. O., Toward the strengthening of radioprotection during mammography examinations through transparent glass screens: A benchmarking between experimental and Monte Carlo simulation studies, *FRONTIERS IN PUBLIC HEALTH*, 11, 1171209, 2023, <http://dx.doi.org/10.3389/fpubh.2023.1171209>
138. Uosif, M. A. M.; Issa, Shams A. M.; Ene, Antoaneta; Ivanov, V.; Mostafa, A. M. A.; Atta, Ali; El Agammy, E. F.; Zakaly, Hesham M. H., Optimal composition for radiation shielding in BTCu-x glass systems as determined by FLUKA, *JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T*, 25: 2088 - 2096, 2023, <http://dx.doi.org/10.1016/j.jmrt.2023.06.107>
139. ALMisned, Ghada; Elshami, Wiam; Kilic, G.; Rabaa, Elaf; Zakaly, Hesham M. H.; Ene, Antoaneta; Tekin, H. O., Utilization of three-layers heterogeneous mammographic phantom through MCNPX code for breast and chest radiation dose levels at different diagnostic X-ray energies: A Monte Carlo simulation study, *FRONTIERS IN PUBLIC HEALTH*, 11, 1136864, 2023, <http://dx.doi.org/10.3389/fpubh.2023.1136864>
140. Uosif, M. A. M.; Issa, Shams A. M.; Ene, Antoaneta; Mostafa, A. M. A.; Atta, Ali; Badawi, Ali; El Agammy, E. F.; Zakaly, Hesham M. H., A promising alternative: examining TVS tellurite glass for gamma radiation shielding applications, *FRONTIERS IN MATERIALS*, 10, 1210524, 2023, <http://dx.doi.org/10.3389/fmats.2023.1210524>
141. Say, Yakup; Guler, Omer; Kavaz, Esra; ALMisned, Ghada; Ene, Antoaneta; Tekin, Huseyin Ozan, Structural, physical, and radiation absorption properties of a significant nuclear power plant component: A comparison between REX-734 and 316L SS austenitic stainless steels, *OPEN CHEMISTRY*, 21(1), 20220307, 2023, <http://dx.doi.org/10.1515/chem-2022-0307>
142. ALMisned, Ghada; Elshami, Wiam; Kilic, Gokhan; Ilik, Erkan; Rabaa, Elaf; Zakaly, Hesham M. H.; Ene, Antoaneta; Tekin, Huseyin O., Exploring the Radioprotective Indium (III) Oxide Screens for Mammography Scans Using a Three-Layer Heterogeneous Breast Phantom and MCNPX: A Comparative Study Using Clinical Findings, *MEDICINA-LITHUANIA*, 59(2), 327, 2023, <http://dx.doi.org/10.3390/medicina59020327>
143. Issa, Shams A. M.; Almutairi, Abeer M. M.; Albalawi, Karma; Dakhilallah, Ohoud K. K.; Zakaly, Hesham M. H.; Ene, Antoaneta; Abulyazied, Dalia E. E.; Ahmed, Sahar M. M.; Youness, Rasha A. A.; Taha, Mohammed A. A., Production of Hybrid Nanocomposites Based on Iron Waste Reinforced with Niobium Carbide/Granite Nanoparticles with Outstanding Strength and Wear Resistance for Use in Industrial Applications, *NANOMATERIALS*, 13(3), 537, 2023, <http://dx.doi.org/10.3390/nano13030537>
144. Karacam, Songul Cavdar; Tuncman, Duygu; ALMisned, Ghada; Ene, Antoaneta; Tekin, Huseyin Ozan, Investigation of Radiochromic Film Use for Source Position Verification through a LINAC On-Board Imager (OBI), *MEDICINA-LITHUANIA*, 59(3), 628, 2023, <http://dx.doi.org/10.3390/medicina59030628>
145. Susam, Lidya Amon; Yilmaz, Ayberk; ALMisned, Ghada; Alan, Hatice Yilmaz; Ozturk, Gizem; Kilic, Gokhan; Tuysuz, Bahar; Topuzlar, Selin Ece; Akkus, Baki; Ene, Antoaneta; Tekin, Huseyin Ozan, Tailoring a Behavioral Symmetry on KERMA, Mass Stopping Power and Projected Range Parameters against Heavy-Charged Particles in Zinc-Tellurite Glasses for Nuclear Applications, *SYMMETRY-BASEL*, 15(6), 1201, 2023, <http://dx.doi.org/10.3390/sym15061201>
146. ALMisned, G; Rabaa, E; Sen Baykal, D; Kavaz, E; Ilik, E; Kilic, G; Zakaly, HMH; Ene, A; Tekin, HO, Mechanical properties, elastic moduli, and gamma ray attenuation competencies of some TeO<sub>2</sub>-WO<sub>3</sub>-GdF<sub>3</sub> glasses: Tailoring WO<sub>3</sub>-GdF<sub>3</sub> substitution toward optimum behavioral state range, *OPEN CHEMISTRY*, 21(1), 20220290, 2023, <http://dx.doi.org/10.1515/chem-2022-0290>
147. ALMisned, Ghada; Rabaa, Elaf; Sen Baykal, Duygu; Ilik, Erkan; Kilic, Gokhan; Zakaly, Hesham M. H.; Ene, Antoaneta; Tekin, Huseyin Ozan, Translocation of tungsten(vi) oxide/gadolinium(iii) fluoride in tellurite glasses towards improvement of gamma-ray attenuation features in high-density glass shields, *OPEN CHEMISTRY*, 21(1), 20220289, 2023, <http://dx.doi.org/10.1515/chem-2022-0289>
148. Cetinkaya, Caglar; Cokdugulular, Erman; Kinaci, Baris; Ilik, Erkan; Kilic, Gokhan; ALMisned, Ghada; Zakaly, Hesham M. H.; Ene, Antoaneta; Tekin, H. O., Tailoring optimal translocation conditions towards proximity of borotel-lurite glasses to the red spectrum through CeO<sub>2</sub> for practical applications, *HELIYON*, 9(4), e14881, 2023, <http://dx.doi.org/10.1016/j.heliyon.2023.e14881>
149. ALMisned, Ghada; Khattari, Ziad Y. Y.; Rabaa, Elaf; Rammah, Yasser S. S.; Baykal, Duygu Sen; Kilic, Gokhan; Zakaly, Hesham M. H.; Ene, Antoaneta; Tekin, Huseyin Ozan, Tailoring a symmetry for material properties of tellurite glasses through tungsten(vi) oxide addition: Mechanical properties and gamma-ray transmissions properties, *APPLIED RHEOLOGY*, 33(1), 20220151, 2023, <http://dx.doi.org/10.1515/arh-2022-0151>
150. ALMisned, Ghada; Rabaa, Elaf; Sen Baykal, Duygu; Ilik, Erkan; Kilic, Gokhan; Zakaly, Hesham M. H.; Ene, Antoaneta; Tekin, Huseyin Ozan, The impact of chemical modifications on gamma-ray attenuation properties of some WO<sub>3</sub>-reinforced tellurite glasses, *OPEN CHEMISTRY*, 21(1), 20220297, 2023, <http://dx.doi.org/10.1515/chem-2022-0297>
151. Alsaif, Norah A. M.; Khattari, Z. Y.; Zakaly, Hesham M. H.; Rammah, Y. S.; Ene, Antoaneta; Al-Buriahi, M. S., Mechanic-elastic properties and radiation attenuation efficiency of TeO<sub>2</sub>/WO<sub>3</sub>/K<sub>2</sub>O composite glass systems for nuclear and medical application, *HELIYON*, 9(8), e18912, 2023, <http://dx.doi.org/10.1016/j.heliyon.2023.e18912>
152. ALMisned, Ghada; Baykal, Duygu Sen; Kilic, G.; Ilik, E.; Rabaa, Elaf; Susoy, G.; Zakaly, Hesham M. H.; Ene, Antoaneta; Tekin, H. O., Comparative analysis on application conditions of indium (III) oxide-reinforced glasses in nuclear waste management and source transportation: A Monte Carlo simulation study, *HELIYON*, MAR, 9(3), e14274, 2023, <http://dx.doi.org/10.1016/j.heliyon.2023.e14274>

153. Lasheen, El Saeed R.; Awad, Hamdy A.; Ene, Antoaneta; Alarifi, Saad S.; Rashwan, Mohammed A.; Kawady, Nilly A.; Issa, Shams A. M.; Zakaly, Hesham M. H., Mineralogical constituents and radioactivity analysis of commercial granitic ornamental stones: Assessing suitability and radiation safety, JOURNAL OF RADIATION RESEARCH AND APPLIED SCIENCES, 16(3), 100618, 2023, <http://dx.doi.org/10.1016/j.jrras.2023.100618>
154. Ashry, Mahmoud; Askar, Hussam; Obiedallah, Manar M.; Elankily, Ahmed Hussuin; Galal El-Sahra, Doaa; Zayed, Gamal; Mustafa, Mohamed A.; El-Shamy, Sawsan Abd El-Maksoud; Negm, Somaia A.; El-Beltagy, Marwa A.; Abdel-Wahhab, Khaled G.; Ene, Antoaneta, Hormonal and inflammatory modulatory effects of hesperidin in hyperthyroidism-modeled rats, FRONTIERS IN IMMUNOLOGY, 14, 1087397, 2023, <http://dx.doi.org/10.3389/fimmu.2023.1087397>
155. ALMisned, Ghada; Susoy, Gulfem; Zakaly, Hesham M. H.; Rabaa, Elaf; Kilic, Gokhan; Ilik, Erkan; Sen Baykal, Duygu; Ene, Antoaneta; Tekin, Huseyin Ozan, The role of Ag<sub>2</sub>O incorporation in nuclear radiation shielding behaviors of the Li<sub>2</sub>O-Pb<sub>3</sub>O<sub>4</sub>-SiO<sub>2</sub> glass system: A multi-step characterization study, OPEN CHEMISTRY, 21(1), 20220354, 2023, <http://dx.doi.org/10.1515/chem-2022-0354>
156. ALMisned, Ghada; Rabaa, Elaf; Rammah, Yasser S. S.; Khattari, Ziad Y. Y.; Baykal, Duygu Sen; Ilik, Erkan; Kilic, Gokhan; Zakaly, Hesham M. H.; Ene, Antoaneta; Tekin, Huseyin Ozan, A Promising Glass Type in Electronic and Laser Applications: Elastic Moduli, Mechanical, and Photon Transmission Properties of WO<sub>3</sub> Reinforced Ternary-Tellurite Glasses, SYMMETRY-BASEL, 15(3), 602, 2023, <http://dx.doi.org/10.3390/sym15030602>
157. Issa, Shams A. M.; Zakaly, Hesham M. H.; Almousa, N.; Huang, Ruixue; Aldousari, Hadeel; Yousef, Nouf; Asiry, Ashwag; Almutairi, Muneerah; Al-atwi, Sanaa; Ene, Antoaneta; V. Zhukovsky, Michael, Navigating radiopharmaceutical dynamics in Ra-223 alpha emitter radiotherapy: Implications for treatment optimization and personalization, JOURNAL OF RADIATION RESEARCH AND APPLIED SCIENCES, 16(4), 100695, 2023, <http://dx.doi.org/10.1016/j.jrras.2023.100695>
158. Alsaif, Norah A. M.; Baykal, Duygu Sen; Elshami, Wiam; Zakaly, Hesham M. H.; Issa, Shams A. M.; Ene, Antoaneta; Rammah, Y. S., On tungsten barium phosphate glasses: Elastic moduli, gamma-ray shielding properties as well as transmission factor (TF), JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, 59(4):1095 – 1109, 2023, <http://dx.doi.org/10.1007/s41779-023-00900-z>
159. MM Salem, El-Refaie Kenawy, Hesham MH Zakaly, Antoaneta Ene, Mohamed M Azaam, Tarek B Edries, Di Zhou, Marwa M Hussein, Anwer S Abd El-Hameed, Islam M Nabil, Moustafa A Darwish, Electrospun PVDF/Barium hexaferrite fiber composites for enhanced electromagnetic shielding in the X-band range, Results in Physics 53, 106975, 2023, <https://doi.org/10.1016/j.rinp.2023.106975>
160. Almisned, Ghada; Khattari, Z. Y.; Sen Baykal, Duygu; Susoy, Gulfem; Kilic, G.; Ene, Antoaneta; Tekin, H. O., Tailoring a correlation between fracture resistance improvement, elastic moduli, mechanical and nuclear radiation shielding properties for sodium-borate glasses through Gallium(III) oxide incorporation, JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, 27:7582-7592, 2023, <http://dx.doi.org/10.1016/j.jmrt.2023.11.195>
161. Zakaly, Hesham M. H.; Tekin, H. O.; Issa, A. M. Shams; Alrowaily, Albandari W.; Ene, Antoaneta; Rammah, Y. S., Dual Impacts of Bi<sub>2</sub>O<sub>3</sub>/B<sub>2</sub>O<sub>3</sub> Substitution on Mechanical and Attenuation Properties of Zinc-Bismuth-Borate Ternary Glasses for Diagnosis  $\gamma$ -Rays Shielding Materials Application, JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, 33(6), 149-1506, 2023, <http://dx.doi.org/10.1007/s10904-022-02527-2>

### **Volume conferințe ISI**

- Popescu, I.V., Ene, A., Stihi, C., Bancuta, A., Dima, G., Badica, T., Ghisa, V., 2007, Analytical applications of particle-induced X-ray emission (PIXE), BPU-6, AIP Conference Proceedings 899, p. 538, ISBN 978-0-7354-0404-5, Journal ISSN:0094243X
- Ene, A., Popescu, I.V., Badica, T., 2007, Multi-elemental analysis of steel by combined nuclear techniques, BPU-6, AIP Conference Proceedings 899, p. 539, ISBN 978-0-7354-0404-5, Journal ISSN:0094243X
- Căpriță Florina Cristiana, Ene Antoaneta, 2020, Biosorption of Heavy Metals from the Metallurgical Industry Wastewater by Macroalgae, AIP Conference Proceedings 2218, 030011, 2020, <https://doi.org/10.1063/5.0001087>
- Antoaneta Ene; Florina Cristiana Căpriță; Ana Pantelică; Alina Ceoromila, Study of composition of seaweed of the genus Ulva and filter paper made with added algae by SEM-EDX, PIXE and PIGE, Proceedings of the TIM20-21 Physics Conference, AIP Conference Proceedings 2843:040008, 2023, DOI: [10.1063/5.0150558](https://doi.org/10.1063/5.0150558)

### **2. Articole publicate in reviste indexate in baze de date internaționale**

- Ene, A., Besliu, C., Olariu, A., Popescu, I.V., Badica, T., Jianu, E.D., Stefanescu, L., Ivanescu Al., 1999, Neutron activation analysis of iron and steel materials involved in the steelmaking process, Romanian Journal of Physics, Supplement, 44(1-2), 165-172, ISSN 1221-146x.
- Ene, A., Besliu, C., Badica, T., Popescu, I.V., Olariu, A., 2000, Analysis of minor elements in steel by neutron-gamma coincidences method in proton-induced prompt gamma-ray emission, Romanian Reports in Physics 52(5-7), 557-562, ISSN 1221-1451.
- Ene, A., Besliu, C., Olariu, A., Popescu, I.V., Badica, T., 2000, Analysis of minor and trace constituents of deoxidized steels by thermal neutron activation, Romanian Reports in Physics 52(8-9), 671-674, ISSN 1221-1451.

4. Ene, A., Besliu, C., Olariu, A., Badica, T., Popescu, I.V., Ivanescu, Al., Jianu, D., 2000, Investigation of raw materials and related final products involved in the ironmaking process by thermal neutron activation, Romanian Journal of Physics 45(9-10), 679-684, ISSN 1221-146x.
5. Ene, A., Popescu, I.V., Badica, T., Olariu, A., 2003, Coincidence method for the analysis of minor elements in steel by proton- and deuteron-induced prompt gamma-ray emission, Romanian Journal of Physics 48(1-4), 445-454, ISSN 1221-146x.
6. Popescu, I.V., Badica, T., Ene, A., Olariu, A., Besliu, C., 2004, High sensitivity analysis method of trace elements in steel by charged particles induced prompt  $\gamma$ -ray spectrometry (PIGE), Romanian Journal of Physics 49(3-4), 385-392, ISSN 1221-146x.
7. Ene, A., Nat, A., Lupu, R., I.V. Popescu, 2004, Determination of gold in auriferous alluvial sands and rocks by 14 MeV neutron activation analysis, Romanian Journal of Physics 49(5-6), 523-529, ISSN 1221-146x.
8. Ene, A., Popescu, I.V., Badica, T., 2005, Determination of manganese in steels using proton-induced nuclear reactions, Romanian Journal of Physics, 50 (7-8), 679-684, ISSN 1221-146x.
9. Ene, A., Popescu, I.V., Badica, T., 2005, Multielemental analysis of steels via atomic and nuclear methods, Romanian Journal of Physics, 50 (9-10), 963-969, ISSN 1221-146x.
10. Ivanescu, L., Ivanescu, Al., Ene, A., 2006, Fuel economy at the heat treatment furnaces of steel cast pieces, Analele Universitatii Dunarea de Jos din Galati, Fascicula IX, Metalurgie si Stiinta materialelor, anul XXIV(XXIX), nr. 1, 74-80, ISSN 1453-083x.
11. Ene, A., Popescu, I.V., Badica, T., 2006, Determination of light elements in steel using particle-induced prompt gamma ray emission, Romanian Journal of Physics, 51 (5-6), 589-594, ISSN 1221-146x.
12. Ene, A., Popescu, I.V., Badica, T., Besliu, C., 2006, Comparative study of PIGE, PIXE and NAA analytical techniques for the determination of minor elements in steels, Romanian Journal of Physics, 51 (5-6), 595-602, ISSN 1221-146x.
13. Antoaneta Ene, Ion V. Popescu, Claudia Stihă, Applications of proton-induced X-ray emission technique in materials and environmental science, Ovidius University Annals of Chemistry, Volume 20, Number 1, pp. 35-39, 2009.
14. Antoaneta Ene, Ana Pantelica, Neutron activation analysis of deoxidized steels, Ovidius University Annals of Chemistry, Volume 20, Number 1, pp. 31-35, 2009.
15. Antoaneta Ene, Nicolae Tigau, Mirela Praisler, Luminita Moraru, Principal component analysis of physico-chemical parameters of river water, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, Year II(XXXIII) 2010, ISSN 2067 - 2071, p.130-135.
16. Giancarlo Rennella, Loretta Landi, Alina Bosneaga, Paola Arfaioi, Antoaneta Ene, Lucian P. Georgescu, Quantitative measurements of the heavy metal content using sequential chemical extraction on Cu polluted soils, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, Year II(XXXIII) 2010, ISSN 2067 - 2071, p.160-165.
17. Giancarlo Rennella, Loretta Landi, Alina Bosneaga, Paola Arfaioi, Antoaneta Ene, Lucian P. Georgescu, Determining the affinity of the elements in soils using a step by step protocol of sequential chemical extraction, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, Year II(XXXIII) 2010, ISSN 2067 - 2071, p.166-171.
18. Giancarlo Rennella, Loretta Landi, Alina Bosneaga, Paola Arfaioi, Antoaneta Ene, Lucian P. Georgescu, Determination of the level of soil pollution from soil solution using AAS technique, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, Year II(XXXIII) 2010, ISSN 2067 - 2071, p.172-175.
19. Giancarlo Rennella, Loretta Landi, Alina Bosneaga, Paola Arfaioi, Antoaneta Ene, Lucian P. Georgescu, Determination of the toxicity of soil solution using the BIOTOX® method, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, Year II(XXXIII) 2010, ISSN 2067 - 2071, p.176-179.
20. L. Moraru, A. Ene, M. Praisler, Image analysis procedure for identifying ciliated protozoa and parasites in water samples, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, Year II(XXXIII) 2010, ISSN 2067 - 2071, p.83-86.
21. Antoaneta Ene, Oleg Bogdevich, Alina Bosneaga, Determination of pesticides and polycyclic aromatic hydrocarbons in soils from Eastern part of Romania using GC and GC/MS techniques, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, Year II(XXXIII) 2010, ISSN 2067 - 2071, p.124-129.
22. Antoaneta Ene, Alina Sion (Bosneaga), Comparative study of high precision spectrometric techniques used for the assessment of trace elements in soils, The Annals of Dunarea de Jos University of Galati, Fascicle IX, Metallurgy and Materials Science, Year XXIX (XXXIV), Special Issue-2011, ISSN 1453-083X, p. 7-10.
23. Antoaneta Ene, Oleg Bogdevich, Alina Sion (Bosneaga), GC-MS analysis of selected PAHs in soils from Galati region, eastern part of Romania, The Annals of Dunarea de Jos University of Galati, Fascicle IX, Metallurgy and Materials Science, Year XXIX (XXXIV), Special Issue-2011, ISSN 1453-083X, p. 166-168.
24. Sion (Bosneaga) A., Calderaru A. C., Georgescu L. P., Ene A., A Complete Monitoring Analysis on Water and Soil From Prut River, Galati County, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, FASCICLE II, YEAR III (XXXIV) 2011, No. 1, p. 5-10.
25. Sion (Bosneaga) A., Ene A., Georgescu L. P., Index of Geoaccumulation in Soils Collected from Urban and Industrial Sites, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, FASCICLE II, YEAR III (XXXIV) 2011, No. 1, p.11-14.

26. 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, The Annals of Dunarea de Jos University of Galati, Metallurgy and Materials Science, Year XXIX (XXXIV), 4 (2011), p. 21-24 ISSN 1453-083X.
27. Sion (Bosneaga) A., Ene A., Georgescu L., Heavy Metals in Soils Near an Industrial Plant in Galati, Romania: Implications for the Population Health Risk, Journal of Sciences and Arts, 2011, Year 11, 3(16), p. 299-302.
28. Antoaneta Ene, Thomas Spanos, Study of distribution and sources of polycyclic aromatic hydrocarbons (PAHs) in topsoils from SE Romania using multivariate statistical analysis, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, FASC. II, YEAR IV (XXXV) 2012, Nos. 1-2, p.15-21.
29. Alina Sion, Antoaneta Ene, Soil pollution evaluation for some pollutants in the Lower Prut meadow, Galati, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, FASCICLE II, YEAR V (XXXVI) 2013, 24-27.
30. Alina Sion, Antoaneta Ene, Soil morphology and qualitative study using SEM-EDX technique, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, FASCICLE II, YEAR V (XXXVI) 2013, 28-31.
31. Antoaneta Ene, Luminița Moraru, Emilian Dănilă, Liliana Cioară, Study of characteristic X-ray spectra induced in complex matrices by radioisotope and electron excitation, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, FASCICLE II, YEAR V (XXXVI) 2013, 40-43.
32. Emilian Dănilă, Antoaneta Ene, Luminița Moraru, Adriana Danila, Liliana Cioară, Study of powder materials of Li-N system interpreted in terms of multifractal geometry, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, FASCICLE II, YEAR V (XXXVI) 2013, 44-48.
33. Mirela Punga (Visan), Luminița Moraru, Antoaneta Ene, Emilian Dănilă, Performance of boundary detection algorithms on medical images, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, FASCICLE II, YEAR V (XXXVI) 2013, 12-15.
34. Emilian Dănilă, Mirela Punga (Visan), Antoaneta Ene, Luminița Moraru, Adriana Dănilă, Automatisation of the diagnosis of portal and vascular problems of the liver, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, FASCICLE II, YEAR V (XXXVI) 2013, 49-52
35. Emilian Dănilă, Antoaneta Ene , Luminița Moraru, Adriana Dănilă, Mirela Punga (Visan), Land use change studied by means of multifractal geometry, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, FASCICLE II, YEAR V (XXXVI) 2013, 53-60.
36. Ene Antoaneta, Constantin Gheorghies, Marina V. Frontasyeva, X-ray based techniques used in materials analysis and control, The 17th International conference Tehnomus XVII, 17-18 mai 2013, Suceava, Romania, Tehnomus Journal NEW TECHNOLOGIES AND PRODUCTS IN MACHINE MANUFACTURING TECHNOLOGIES, Year 2013, Issue 1, p. 193-196. [http://www.fim-old.usv.ro/conf\\_1/tehnomusjournal/pagini/journal2013/files/33.pdf](http://www.fim-old.usv.ro/conf_1/tehnomusjournal/pagini/journal2013/files/33.pdf)
37. Ene Antoaneta, Marina Frontasyeva, Applications of neutron activation analysis technique in element determination at trace level, The 17th International conference Tehnomus XVII, 17-18 mai 2013, Suceava, Romania, Tehnomus Journal NEW TECHNOLOGIES AND PRODUCTS IN MACHINE MANUFACTURING TECHNOLOGIES, Year 2013, Issue 1, p. 165-171. <http://www.tehnomusjournal.fim.usv.ro/pagini/journal2013/files/28.pdf>
38. Claudia Ungureanu, George Ifrim, Antoaneta Ene, Gabriela Bahrim, Mihaela Turturica, Chemical and microbiological analysis of water quality from Lower Danube region, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, FASCICLE II, YEAR VI (XXXVII) 2014, No.2, 209-215
39. S. Condurache-Bota, G. Condurache-Bota, M. Voiculescu, A. Ene, A.T. Antohe, Recent developments in air quality in Europe, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, Year VII (XXXVIII), 2015, p.159-164.
40. S. Condurache-Bota, A. Ene, G. Condurache-Bota, G. Pavelașcu, Nuclear energy and radioactive pollution, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, Year VII (XXXVIII), 2015, p.165-176.
41. Săndița Plăcintă, Mirela Crețu, Victor Cristea, Antoaneta Ene, Elena Bocioc, Marian Tiberiu Coadă, Seasonal characterization of physico-chemical parameters of Danube river water, Isaccea-Vilkovo sector, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, Year VII (XXXVIII), 2015, p.183-187.
42. Drașovean, R., Ene, A. , Gosav, S., Păduraru, N., Monitoring some greenhouse gases in Romania, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, Year VII (XXXVIII), 2015, p.195-200.
43. Steluța Gosav, Nicoleta Păduraru, Antoaneta Ene, Romana Drașovean, Toxicological study on some chemical compounds using the molecular modeling, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, Year VII (XXXVIII), 2015, p.201-206.
44. Bulat, Dm.; Bulat, Dn; Toderaș, I. Usatfi, M.; Zubcov, E.; Ungureanu, L.; Ene, A.; Davideanu, G.; Șaptefrați, N., Importanța zonelor umede pentru menținerea ihtiofaunei Nistrului și Prutului inferior, Buletinul Academiei de Științe a Moldovei. Științele vieții 1(325), 2015, p.120-126.
45. Antoaneta Ene, Marina V. Frontasyeva, A. Cantaragiu, V. Pintilie, E. Pascu, D. Soimu, E. Chiriac, V. Coguteac, A. Buliga, M. Tobol, Nuclear and X-ray methods used in environmental and material science, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, Year VIII (XXXIX), No.1, 2016, p.86-91.

46. V. Pintilie, A. Ene, L.P. Georgescu, L. Moraru, Monitoring of gross alpha and beta activity in drinking water from Galati during 2013-2014, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, Year VIII (XXXIX), No.1, 2016, p.20-25.
47. Victor Ciornea, Anastasia Ivanova, Elena Zubcov, Antoaneta Ene, Determination of some of organochlorine pesticides in the waters of the Prut River, Annals of the Univ. Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, Year VIII (XXXIX), No.1, 2016, p.81-85.
48. Liubovi Lebedenco, Olga Jurminskaia, Elena Zubcov, Antoaneta Ene, Dynamics of zooplankton in ecosystems of the Lower Danube, Annals of the University Dunarea de Jos of Galati, Fascicle II - Mathematics, Physics, Theoretical Mechanics, Year VIII (XXXIX), No.1, 2016, p.92-100.
49. Thomas Spanos, Antoaneta Ene, Environmental assessment of toxic metals occurrence in urban sewage sludge for its potential land application, Annals Dunarea de Jos Univ. Galati, Fasc. II. Mathematics, Physics, Theoretical Mechanics, year VIII (XXXIX), No. 2, 2016, p. 158-166.
50. Steluța Gosav, Antoaneta Ene, Rodica Dragomir, Spectroscopic investigation of sedimentary rocks with fossil plants using *ATR-FTIR* technique, Annals Dunarea de Jos Univ. Galati, Fasc. II. Mathematics, Physics, Theoretical Mechanics, year VIII (XXXIX), No. 2, 2016, p. 242-247.
51. V. Pintilie, Lucian-Puiu Georgescu, Luminita Moraru, Antoaneta Ene, Catalina Iticescu, Natural radioactivity in drinking water from Galati and Vrancea areas, Romania. Radiation and Applications, 2016, 1(3), 165-170, ISSN 2466-4294 (online), DOI:10.21175/RadJ.2016.03.031.
52. Luminita Moraru, Lucian Traian Dimitrievici, Antoaneta Ene, Simona Moldovanu, Magnetic field gradients and their effects on the diffusion tensor derivate measures, RAD Conference Proceedings, vol. 2, pp. 207–211, 2017, ISSN 2466-4626 (on line), DOI: 10.21175/RadProc.2017.42, <http://rad-proceedings.org/index.php?id=2>
53. Cristina Despina, Liliana Teodorof, Adrian Burada, Daniela Seceleanu-Odor, Mihaela Tiganus, Iuliana-Mihaela Tudor, Orhan Ibram, Cosmin Spiridon, Aurel Nastase, George Tiganov, Antoaneta Ene, Danube Delta Biosphere Reserve - ten years of toxic substances monitoring, Annals Dunarea de Jos Univ. Galati, Fasc. II. Mathematics, Physics, Theoretical Mechanics, year IX (XL), No. 1, 2017, p. 55-60.
54. Alina Sion, Antoaneta Ene, Zinc solubility determined in industrial soils, Annals Dunarea de Jos Univ. Galati, Fasc. II. Mathematics, Physics, Theoretical Mechanics, year IX (XL), No. 2, 2017, p. 167-170.
55. Florin Sloata, Antoaneta Ene, XRF analysis of mercury in highly contaminated soils from a former chlor-alkali plant in Romania, Annals Dunarea de Jos Univ. Galati, Fasc. II. Mathematics, Physics, Theoretical Mechanics, year IX (XL), No. 2, 2017, p. 171-174.
56. Constantin Gheorghies, Simona Condurache-Bota, Geta Carac, Paula Cojocaru, Lucian Puiu Georgescu, Catalina Iticescu, Antoaneta Ene, Reduction of Irradiation Level for Personnel Working in a Steel Furnace Using NMG Method, *International Journal of Science, Technology and Society* (2017), 5(4) Pages: 87-90 DOI: 10.11648/j.ijsts.20170504.15
57. Florin Sloata, Antoaneta Ene, Optimization of X-ray fluorescence technique for the analysis of heavy metals contained in wastes from the electrical and electronic equipment industry, Annals Dunarea de Jos Univ. Galati, Fasc. II. Mathematics, Physics, Theoretical Mechanics, year X (XLI) 2018, No. 1, p.111-117
58. Sorina-Simona Arbanaș (Moraru), Alina Simionică, Antoaneta Ene, Agricultural potential of chernozems near the iron and steel integrated works of Galati in the perimeter of the territorial administrative unit of Sendreni, Galati county, Annals Dunarea de Jos Univ. Galati, Fasc. II. Mathematics, Physics, Theoretical Mechanics, year X (XLI) 2018, No. 1, p.5-9.
59. Sorina-Simona Arbanaș (Moraru), Antoaneta Ene, Dana Iulia Moraru, Contamination level of *Triticum Vulgare* L. cultivated on soils around a metallurgical area in Galati, Romania, Annals of "Dunarea de Jos" University of Galati, Mathematics, Physics, Theoretical Mechanics, Fascicle II, Year XI (XLII) 2019, No. 1, p.1-9.
60. Florina Cristiana Caprita, Antoaneta Ene, Valorification directions for marine algae, Annals of "Dunarea de Jos" University of Galati, Mathematics, Physics, Theoretical Mechanics, Fascicle II, Year XI (XLII) 2019, No. 1, p. 10-18.
61. Moraru, Sorina-Simona; Ene, Antoaneta; Gosav, Steluta, 2019, Mineralogical Composition Assessment of Soils from Covurlui and Braila Plains by ATR-FTIR Technique, *Proceedings* 29, no. 1: 80; presented at 15th International Symposium "Priorities of Chemistry for a Sustainable Development" Priochem XV 2019, 30th October–1st November 2019, Bucharest, Romania.
62. Ene, A. Moraru, S.S., Moraru D.I., Assessment of bioaccumulation of heavy metals in sunflower cultivated in the agricultural area next to steel industry, ISI Proceedings of the 19th International Multidisciplinary Scientific GeoConference SGEM 2019, Vol.19, Issue 3.2, p. 25-32 (2019) doi: 10.5593/sgem2019/3.2/S13.004.
63. Moraru, S.S., Ene, A., Gosav, S., Study of the correlativity between parameters and mineralogy of contaminated agricultural soils, ISI Proceedings of the 19th International Multidisciplinary Scientific GeoConference SGEM 2019, Vol.19, Issue 3.2, p. 441-448 (2019) doi: 10.5593/sgem2019/3.2/S13.058.
64. Ene Antoaneta, Pantelică Ana, Arbanaș (Moraru) Sorina-Simona, Pintilie Violeta, Sloată Florin, Căpriță Florina Cristiana Straticiuc Mihai, Mirea Dragoș, Șerban Andreea, Stihă Claudia, Frontasyeva Marina, Bogdevich Oleg, Culighin Elena, Larisa Ganea, Development of analysis methodology using Proton Induced X-ray Emission (PIXE) as a complementary technique to determine trace elements in environmental matrices, Annals of "Dunarea de Jos" University of Galati, Mathematics, Physics, Theoretical Mechanics, Fascicle II, Year XI (XLII) 2019, No. 2, 117-125.

65. Sion Alina, Alina Cantaragiu, Antoaneta Ene, Surface and elemental analysis of 20<sup>th</sup> century Romanian coins using SEM-EDX technique, Annals of "Dunarea de Jos" University of Galati, Mathematics, Physics, Theoretical Mechanics, Fascicle II, Year XI (XLII) 2019, No. 2, 153-159.
66. Enachi Elena, Gabriela Elena Bahrim, Antoaneta Ene, Pharmaceutical compounds and endocrine disruptors in aquatic environments: ecotoxicological effects and analysis methodology, Annals of "Dunarea de Jos" University of Galati, Mathematics, Physics, Theoretical Mechanics, Fascicle II, Year XI (XLII) 2019, No. 2, 172-182.
67. Teodorof L., Burada A., Despina C., Seceleanu-Odor D., Spiridon C., Tiganus M., Tudor I.-M., Tudor M., Ene A., Zubcov E., Spanos T., Bogdevich O., Sediments quality assessment in terms of single and integrated indices from Romanian MONITOX network (2019 – 2020), Annals Dunarea de Jos Univ. Galati, Fasc. II. Mathematics, Physics, Theoretical Mechanics, 43(2) (2020) 175-183.
68. Antoaneta Ene, Mihaela-Aida Vasile, Gabriela Bahrim, Study of microbiological contamination level of surface water in MONITOX network areas before and after COVID-19 pandemic, *Annals of the" Dunarea de Jos" University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics*, 2020, Volume 43, No. 2, 75-81, <https://doi.org/10.35219/ann-ugal-math-phys-mec.2020.2.01>
69. Arbanas (Moraru), S. and Ene, A. (2020) "Nutrient Stocks Study in Agroecosystems Located near the Steel Industry, Galati, Romania *Annals of the" Dunarea de Jos" University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics*, 43(2), pp. 82-93. doi: <https://doi.org/10.35219/ann-ugal-math-phys-mec.2020.2.02>.
70. Cioroi, M. and Ene, A. (2020) "A study on drinking water quality in SE Romania", *Annals of the" Dunarea de Jos" University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics*, 43(2), pp. 108-114. doi: <https://doi.org/10.35219/ann-ugal-math-phys-mec.2020.2.05>.
71. Sion, A., Gosav, S. and Ene, A. (2020) "ATR-FTIR qualitative mineralogical analysis of playground soils from Galati city, SE Romania", *Annals of the" Dunarea de Jos" University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics*, 43(2), pp. 141-146. doi: <https://doi.org/10.35219/ann-ugal-math-phys-mec.2020.2.10>.
72. Spiridon, C., Burada, A., Teodorof, L., Despina, C., Seceleanu- Odor, D., Tudor, M. and Ene, A. (2020) "Chlorophyll a and total nutrients distribution from surface waters in Romanian MONITOX network in 2019 and 2020", *Annals of the" Dunarea de Jos" University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics*, 43(2), pp. 184-189. doi: <https://doi.org/10.35219/ann-ugal-math-phys-mec.2020.2.17>.
73. Spanos, T., Mittas, N., Xatzichristou, C., Dermentzis, K.I., Topi, V., Spanou, D.S., Ene, A., Teodorof, L., Zubcov, E. and Bogdevich, O., 2021. Evaluation of Potable Groundwater Quality Using Environmetrics. The case of Nestos and Strymon River Regions, Northern Greece. *Journal of Engineering Science and Technology Review*, 14(1), pp.114-118. doi:10.25103/jestr.141.13
74. Căpriță Florina Cristiana, Antoaneta Ene, "Study of the biosorption efficiency of seaweed species collected from the Black Sea for heavy metals removal in industrial wastewaters", ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI MATHEMATICS, PHYSICS, THEORETICAL MECHANICS, <https://doi.org/10.35219/ann-ugal-math-phys-mec.2021.1.01>, FASCICLE II, YEAR XIII (XLIV), 2021, 44(1), pp. 1-10.
75. Sloată F., Ene A., Management of nuclear materials containing natural Uranium and Thorium salts, Annals Dunarea de Jos Univ. Galati, Fasc. II. Mathematics, Physics, Theoretical Mechanics, year XIII (XLIV), no. 1, 2021, ISSN 2067 – 2017, p. 11 <https://doi.org/10.35219/ann-ugal-math-phys-mec.2021.1.02>
76. Szabo, G., Ene, A. (2021) "XRF assessment of microcomposition and basicity index of metallurgical slags", Annals of the" Dunarea de Jos" University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics, 44(2), pp. 89-92
77. Ion. V.I., Ene A., Mocanu G., Boiler blowdown recovery, Annals of the" Dunarea de Jos" University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics, 44(2), pp. 98-102
78. Alina Sion, Antoaneta Ene, Sequential chemical extraction of copper from clay: an overview, Annals of the" Dunarea de Jos" University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics, YEAR XIV (XLV) 2022, No. 2. 53-58
79. Căpriță, Florina Cristiana, Antoaneta Ene, and Steluța Gosav. "ATR-FTIR Analysis of Filter Paper With Mass Addition of Seaweed Ulva Rigida C. Agardh". Annals of the" Dunarea de Jos" University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics, YEAR XIV (XLV) 2022, No. 1: 19-22.
80. Sloata F., Ene A., Bogdevici O., Spanos T., Characterization of soils around a former chemical plant in Braila, SE Romania, using high performance atomic techniques (EDXRF, AAS, ICP-MS), Annals of the" Dunarea de Jos" University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics, YEAR XIV (XLV) 2022, No. 1, 23-32.
81. Sloata F., Ene A., Bogdevici O., Application of the gas-chromatographic analysis method for the characterization of oils in high capacity industrial electrical equipment, Annals of the" Dunarea de Jos" University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics, YEAR XIV (XLV) 2022, No. 1, 33-38.
82. E Zubcov, N Zubcov, N Bagrin, L Bilețchi, L Ungureanu, A Ene, T Spanos, Victor Ciornea, Petru Ciorba, Various aspects of the assessment of migration and the role of metals in determining the functioning of aquatic ecosystems, Oltenia-studii si comunicari stiintele naturii 39 (2), 2023, 192-199.