

LUCRĂRI PUBLICATE ȘI COMUNICĂRI ȘTIINȚIFICE

ARTICOLE:

- ISI:

- 2024** Coromelci C. G., **Maftai A. E.**, Neamtu M., Ababei G., Brinza L. – *Amorphous iron oxyhydroxides nano precursors used for Reactive Yellow 84 removal from aqueous solutions*. Separation and Purification Technology, 331, 125632. **IF 8.6**, **AIS 1.002**, DOI: <https://doi.org/10.1016/j.seppur.2023.125632>.
- 2023** **Maftai A. E.**, Ahmed I., Neamtu M., Coromelci C. G., Ignat M., Brinza L. – *Nanocrystalline structured ethylene glycol doped maghemite for persistent pollutants removal*. Environmental Science-Water Research & Technology, 9(6), p. 1634-1645. **IF 5**, **AIS 0.983**, DOI: <https://doi.org/10.1039/D2EW00986B>.
- 2023** Damian G., Apopei A.I., Buzatu A., **Maftai A.E.**, Damian F. – *New Mineral Occurrences in Massive Sulfide Deposits from Manaila, Eastern Carpathians, Romania*. Minerals, vol. 132 (1), 111. **IF 2.5**, **AIS 0.514**, DOI: <https://doi.org/10.3390/min13010111>.
- 2023** Scarlat A. A., Iancu O. G., Chelariu C., Loghin S., Cotac V. N., Buliga I., **Maftai A. E.** – *Spatial geochemical distribution of some potentially toxic elements within river bed sediments from Rodna Mountains, Eastern Carpathians, Romania*. Present Environment and Sustainable Development, vol. 17 (1), p. 155-169. **IF 0.7**, **AIS 0.057**, DOI: <https://doi.org/10.47743/pesd2023171011>.
- 2022** Brinza L., **Maftai A. E.**, Tascu S., Brinza F., Neamtu M. – *Advanced removal of Reactive Yellow 84 azo dye using functionalised amorphous calcium carbonates as adsorbent*. Scientific Report, 12 (3112), p. 1:15. **IF 4.6**, **AIS 1.132**, DOI: <https://doi.org/10.1038/s41598-022-07134-2>.
- 2022** Dincă G., Apopei A.I., Szabo R., Maftai A. E. – *The Effect of Mn Substitution on Natural Sphalerites by Means of Raman Spectroscopy: A Case Study of the Săcărâmb Au–Ag–Te Ore Deposit, Apuseni Mountains, Romania*. Minerals, vol. 12 (7), 885. **IF 2.5**, **AIS 0.514**, DOI: <https://doi.org/10.3390/min12070885>.
- 2021** Damian G., Buzatu A., Apopei A. I., Damian F., **Maftai A. E.** – *Hydrothermal sphalerites from ore deposits of Baia Mare area*. Minerals, 11(12), p. 1-23. **IF 2.818**, **AIS 0.515**, DOI: <https://doi.org/10.3390/min11121323>.

- 2021** Apopei A. I., Buzgar N., Buzatu A., **Maftei A. E.**, Apostoae L. – *Digital 3D Models of Minerals and Rocks in a Nutshell: Enhancing Scientific, Learning, and Cultural Heritage Environments in Geosciences by Using Cross-polarized Light Photogrammetry*. Carpathian Journal of Earth and Environmental Sciences, 16(1), pp. 237–249. IF 1.316, AIS 0.170, DOI: <https://doi.org/10.26471/cjees/2021/016/170>.
- 2020** **Maftei A. E.**, Buzatu A., Damian G., Buzgar N., Dill H. G., Apopei A. I. (2020) – *Micro-Raman—a tool for the heavy mineral analysis of gold placer-type deposits (Pianu Valley, Romania)*. Minerals, 10(11), p. 1-17. IF 2.644, AIS 0.495, DOI: <https://doi.org/10.3390/min10110988>.
- 2019** **Maftei A. E.**, Buzatu A., Buzgar N., Apopei A. I. (2019) – *Spatial Distribution of Minor Elements in the Tazlău River Sediments: Source Identification and Evaluation of Ecological Implications*. International Journal of Environmental Research and Public Health, vol. 16 (23), p. 1-16. IF 2.849, AIS 0.659. DOI: <https://doi.org/10.3390/ijerph16234664>.
- 2019** **Maftei A. E.**, Buzgar N., Buzatu A., Apopei A. I. – *Distribution and minor elements contamination in urban and peri-urban soils area of Slănic Moldova, Romania*. Carpathian Journal of Earth and Environmental Sciences, Vol. 14, No. 2, p. 335 - 342. IF 1.307, AIS 0.132, DOI: <https://doi.org/10.26471/cjees/2019/014/084>.
- 2018** **Maftei A. E.**, Dill H. G., Buzatu A., Iancu O. G., Buzgar N., Andráš P. – *Chemical and mineralogical composition of fluvial sediments (Bistrita River, Romania): Geogenic vs. anthropogenic input into rivers on its way through mining areas*. Chemie der Erde, volume 78, issue 3, p. 385-395. IF 2.364, AIS 0.754, DOI: <https://doi.org/10.1016/j.chemer.2018.03.001>.
- 2017** Dill H. G., Buzatu A., **Maftei A. E.** – *Capturing digital data with handheld devices to determine the redox regime, lithology, and provenance of siliciclastic sediments and residual deposits—a review and field manual*. Arabian Journal of Geosciences. 10, p.188. IF 0.860, AIS 0.231, DOI: <https://doi.org/10.1007/s12517-017-2936-x>.
- 2017** Buzatu A., Damian G., Buzgar N., Andráš P., Apopei A. I., **Maftei A. E.**, Milovska S. – *Structural key features of bismut and Sb-As sulfosalts from hydrothermal deposits - micro-Raman spectrometry*. Vibrational Spectroscopy. 89, 49-56. IF 1.363, AIS 0.380, DOI: <https://doi.org/10.1016/j.vibspec.2017.01.002>.
- 2016** Buzatu A., Dill H. G., Buzgar N., Damian G., **Maftei A. E.**, Apopei A. I. – *Efflorescent sulfates from Baia Sprie mining area (Romania) – acid mine drainage and climatological approach*. Science of the Total Environment, 542, p. 629-641. IF 4.900, DOI: <https://doi.org/10.1016/j.scitotenv.2015.10.139>.

- 2014** | **Maftai A. E.**, Iancu O. G., Buzgar N. – *Assessment of minor elements contamination in Bistrița River sediments (upstream of Izvorul Muntelui Lake, Romania) with the implication of mining activity*. Journal of Geochemical Exploration 145, 25-34. IF 3.287, AIS 0.605, DOI: <https://doi.org/10.1016/j.gexplo.2014.05.001>.

- **BDI:**

- 2018** | **Maftai A. E.**, Buzatu A., Buzgar N., Apopei A. I. – *Preliminary assessment of anthropogenic contribution and influencing factors of major elements and total organic carbon in Tazlău River sediments, Romania*. Romanian Journal of Mineral Deposits, vol. 91, no. 1-2, p. 73-78.

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- 2023** | **Maftai A.E.**, Coromelci C.G., Neamtu M., Brinza L. – *Organic doped iron oxyhydroxides applications for dyes removal from wastewater*. Goldschmidt 2023 Conference, Lyon, 9-14 July 2023, France.
- 2023** | **Maftai A.E.**, Coromelci C.G., Brinza L. - *Nanoparticule pe bază de oxihidroxizi de fier aplicate în reținerea Cr (VI) din ape*. Simpozionul științific național cu participare internațională "Mircea Savul", 28 octombrie 2023, Iași, România.
- 2022** | **Maftai A.E.**, Coromelci C.G., Ahmed I., Neamțu M., Brînză L. – *Ethylene glycol doped magnetic nanoparticles for persistent pollutants removal*. 5th International Conference Emerging Technologies in Material Engineering, 27-28 October 2022, Bucharest, Romania.
- 2022** | Coromelci C., **Maftai A.E.**, Neamțu M., Brînză L. – *Carbonates based nanoparticles synthesis, characterization and their application for wastewater treatment*. RCS Chemical Science symposium 2022: Sustainable synthesis and catalysis, 10 – 11 November 2022, London.
- 2022** | Scarlat A.A., Iancu O.G., Coțac V.N., Chelariu C., Buliga I., **Maftai A. E.** – *Spatial geochemical distribution of some potentially toxic elements within river bed sediments from Rodna Mountains, Eastern Carpathians, Romania*. XXII International Congress of the Carpathian-Balkan Geological Association (CBGA), 7 – 11 September 2022, Agricultural University in Plovdiv, Bulgaria.
- 2022** | **Maftai A.E.**, Coromelci C.G., Ahmed I., Neamțu M., Brînză L. – *Nanoparticule pe bază de oxizi de fier utilizate în tratamentul apelor uzate*. Simpozionul științific național cu participare internațională "Mircea Savul", 29 octombrie 2022, Iași, România.

- 2022** Apopei A.I., Buzgar N., Buzatu A., **Maftai A.E.** – *Digitalizarea colecțiilor de minerale și roci din cadrul Muzeului de Mineralogie și Petrografie “Grigore Cobălcescu”*. Simpozionul științific național cu participare internațională "Mircea Savul", 29 octombrie 2022, Iași, România.
- 2019** **Maftai A.E.**, Buzatu A., Buzgar N., Apopei A.I. – *Studiul mineralogic preliminar al depozitelor sedimentare din Valea Pianu, Munții Sebeș, România*. Simpozionul științific național “Mircea Savul”, Iași, România.
- 2018** **Maftai A. E.**, Buzatu A., Buzgar N., Apopei A. I. – *Spatial distribution of trace elements in the Tazlău River sediments: source identification and evaluation of ecological implications*. The 11th International Symposium on Economic Geology. Mineral resources in the 21st century. Iași, Romania.
- 2018** **Maftai A. E.**, Buzatu A., Buzgar N., Apopei A. I. – *Preliminary assessment of anthropogenic contribution and influencing factors on major elements and total organic carbon in Tazlău River sediments, Romania*. The 11th International Symposium on Economic Geology. Mineral resources in the 21st century. Iași, Romania.
- 2018** **Maftai A. E.**, Buzatu A., Buzgar N., Apopei A. I. – *Geochemical and ecological risk studies of some trace elements in soils from urban and peri-urban area of Slănic Moldova, Romania*. National Symposium “Mircea Savul” Iași, Romania.
- 2014** **Maftai A. E.**, Iancu O. G., Buzgar N. – *Minor elements contamination study in Bistrița river sediments (upstream of Izvorul Muntelui Lake), Romania*. International Symposium “Present Environment and Sustainable Development” Iași, Romania.