

LISTĂ DE LUCRĂRI

Articole științifice publicate în reviste cotate Web of Science cu factor de impact:

1. Tatarcan, B., Pohoata, V., Gerber, I.C., Gabriela Mihalache, G., Mihaila, I., Dobromir, M., [Soroaga, L.V.](#), Topala, I., ***Effects of long-duration non-thermal plasma treatment on quinoa seeds: surface chemistry, mesoscale morphology and germination under optimal and saline conditions***, Food Bioscience, 68, 106709, **2025**. DOI:10.1016/j.fbio.2025.106709 (FI: **4,8**, Q1)
2. Gerber, I.C.; Mihaila, I., Pohoata, V., Sandu, A., Agheorghiesei, C., [Soroaga, L.V.](#), Iancu, D., Andrei, R.F., Burducea, I., Straticiuc, M., Duca, D., Egorov, D., Carpentier, Y., Chazallon, B., Faccinetto, A., Nuns, N., Focsa, C., Pirim, C., Topala, I., ***Characterization of interstellar carbon dust analogues synthesized by dielectric barrier discharge and evolution after irradiation with 3 MeV H⁺***, Monthly notices of the Royal Astronomical Society, 538(1), 266-279, **2025**. DOI:10.1093/mnras/staf314 (FI: **4,8**, Q1)
3. Ciobanu, C.I., Epure, E.L., [Soroaga, L.V.](#), Simion, A., Lisa, G., Carlescu, I., ***Effects of the Central Unit Structure, Lateral Substitution and Symmetry on the Mesomorphic Behavior of Some Bent-Core Azoester Derivatives***, ChemistryOpen, e202400454, 1-10, **2025**. DOI:10.1002/open.202400454 (FI: **2,5**, Q2)
4. [Soroaga, L.V.](#), Arsene, C., Borcia, C., Pintilei, M., Olariu, R.I., ***Development and application of an analysis method for the determination of rare earth elements in silicate-rich samples by Na₂O₂ sintering and ICP-MS analysis***, Analytical Sciences, 38, 1395-1406, **2022**. DOI:10.1007/s44211-022-00172-w (FI: **1,6**, Q4)
5. [Soroaga, L.V.](#), Amarandei, C., Negru, A.G., Olariu, R.I., Arsene, C., ***Assessment of the anthropogenic impact and distribution of potentially toxic and rare earth elements in lake sediments from north-eastern Romania***, Toxics, 10(5), 242, **2022**. DOI:10.3390/toxics10050242 (FI: **4,6**, Q1)
6. Amarandei, C., Negru, A.G., [Soroaga, L.V.](#), Cucu-Man, S.M., Olariu, R.I., Arsene, C.; ***Assessment of surface water quality in the Podu Iloaiei dam lake (north-eastern Romania): Potential implications for aquaculture activities in the area***, Water, 13, 2395, **2021**. DOI: 10.3390/w13172395 (FI: **3,530**, Q2)
7. Sandu, M.C., [Soroaga, L.V.](#), Balaban, S.I., Chelariu, C., Chiscan, O., Iancu, G.O., Arsene, C., Olariu, R.I., ***Trace elements distribution in stream sediments of an abandoned U mining site in the Eastern Carpathians, Romania, with particular focus on REEs***, Geochemistry - Chemie der Erde, 81(2), 125761, **2021**. DOI: 10.1016/j.chemer.2021.125761 (FI: **4,127**, Q2)
8. Humelnicu, D., [Soroaga, L.V.](#), Arsene, C., Humelnicu, I., Olariu, R.I., ***Adsorptive performance of soybean and mustard husk towards arsenic (V) ions from synthetic aqueous solutions***, Acta Chimica Slovenica, 66(2), 326-336, **2019**. DOI: 10.17344/acsi.2018.4821 (Factor impact: **1,263**, Q3)

9. Gradinaru, I., Ingnat, L., Dascalu, C.G., [Soroaga, L.V.](#), Antohe, M.E., ***Studies regarding the Architectural design of various composites and nanofibres used in dental medicine***, Revista de Chimie, 69(2), 328-331, **2018**. DOI: 10.37358/rc.18.2.6100 (Factor impact: **1,605**, Q3)

Articole științifice publicate în reviste indexate fără factor de impact / BDI / volumele conferințelor:

1. [Soroaga, L.V.](#), Arsene, C., Olariu, R.I., ***The evaluation of Na₂O₂ as a sintering agent in solid state dissolution of potential secondary sources for rare earth elements***, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, 21(4.2), 41-48, **2021**. DOI: 10.5593/sgem2021V/4.2/s18.08
2. Borcia, C.G., [Soroaga, L.V.](#), Olariu, R.I., Nica, V., Pintilei, M., ***Evaluating the efficiency of rare earth elements recovery from mining wastes using environmentally friendly methods***, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, 17(43), 75-82, **2017**. DOI: 10.5593/sgem2017H/43/S18.010
3. Stavarache, I.E., Chiriac, V., [Soroaga, L.V.](#), Dumitrascu, N., ***Physico-Chemical characterization of polymeric films used in Ophthalmology***, International Journal of Medical Dentistry – Biomaterials, 7(1), 15-20, **2017**. ISSN: 2066-6063

Participări la manifestări științifice internaționale (postere sau prezentări orale)

1. [Soroaga, L.V.](#), Amarandei, C., Negru, A. G., Arsene, C., Olariu, R.I., ***The Rare Earth Elements Distribution in Lake Sediments as an Indicator of Surface Water Redox Potential and Micropollution***, International Conference on Chemistry and the Environment – ICCE 2023, Veneția, Italia, **2023**.
2. Gerber, I.C., [Soroaga, L.V.](#), Mihaila, I., Pohoata, V., Topala, I., ***Hydrogenated amorphous carbon interstellar dust analogues obtained in dielectric barrier discharge***, 20 International Conference on Global Research and Education Inter-Academia 2023, 27-29 Septembrie, Hamamatsu, Japonia, **2023**.
3. [Soroaga, L.V.](#), Arsene, C., Olariu, R.I., ***The evaluation of Na₂O₂ as a sintering agent in solid state dissolution of potential secondary sources for Rare Earth Elements***, SGEM International Scientific Conferences on Earth & Planetary Sciences – Extended scientific session „Green Sciences for Green Life“, Viena, Austria, **2021**.
4. Gerber, I.C., Pohoata, V., Topala, I., Mihaila, I., [Soroaga, L.V.](#), Pirim, C., Duca, D., Focsa, C., ***Interstellar Dust Analogs Obtained in Dielectric Barrier Discharge. Synthesis and Characterisation***, ECLA 2020 European Conference on Laboratory Astrophysics, Linking dust, ice and gas in Space, Anacapri, Italia, **2021**.
5. [Soroagă, L.V.](#); Olariu, R.I.; Arsene, C.; Borcia, C.; ***Quantitative analysis of rare earth elements from secondary sources: a comparison of laser ablation inductively coupled plasma mass spectrometry and solution inductively coupled plasma-mass spectrometry***, Scientific Conference SGEM Vienna GREEN 2017, Viena, Austria, **2017**.

6. Borcia, C.; [Soroagă, L.V.](#); Olariu, R.I.; Nica, V.; Pintilei, M.; ***Evaluating the efficiency of rare earth elements recovery from tailings using environmentally friendly methods***, Scientific Conference SGEM Vienna GREEN 2017, Viena, Austria, **2017**.
7. Olariu, R.I.; Arsene, C.; [Soroagă, L.V.](#); Pintilei, M.; Nica, V.; Borcia, C.; ***Chemical properties of available materials for the recovery of rare earth elements***, 3rd International Conference on Computational and Experimental Science and Engineering, Antalya, Turcia, **2016**.

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1. [Soroaga, L.V.](#), Nita, C., Negru, A.G., Arsene, C., Olariu, R.I., ***ICP-MS analysis of rare earths and trace elements from the atmospheric particulate matter and other various matrices***, Ready for EUROPE Conference, Ediția I, Iași, România, **2024**.
2. Negru, A.G., Roman, [Soroaga, L.V.](#), C., Nita, C., Olariu, R.I., Arsene, C., ***Advanced analytical techniques suitable for field measurements of air pollutants and for fundamental studies on their atmospheric degradation***, Ready for EUROPE Conference, Ediția I, Iași, România, **2024**.
3. Nita, C., Iancu, C., Negru, A.G., [Soroaga, L.V.](#), Olariu, R.I., Arsene, C., ***Real-time analysis of gases at trace levels with selected ion flow tube mass spectrometry (SIFT-MS) technology***, Ready for EUROPE Conference, Ediția I, Iași, România, **2024**.
4. Iancu, C., Nita, C., Negru, A.G., [Soroaga, L.V.](#), Olariu, R.I., Arsene, C., ***Research tools for the investigation of bacterial and fungal communities in airborne bioaerosol particles***, Ready for EUROPE Conference, Ediția I, Iași, România, **2024**.
5. [Soroaga, L.V.](#), Arsene, C., Olariu, R.I., ***Total metal content evaluation by ICP-MS in size-resolved inhalable particulate matter from the atmosphere***, IasiCHEM 2024 Conference, Iași, România, **2024**.
6. Negru, A.G., Nita, C., Roman, C., [Soroaga, L.V.](#), Olariu, R.I., Arsene, C., ***Measurements of traffic-dominated pollutant emissions in the urban area of Iasi using the PRO TRACE 02 mobile laboratory***, IasiCHEM 2024 Conference, Iași, România, **2024**.
7. [Soroaga, L.V.](#), Arsene, C., Olariu, R.I. ***The rare earth elements distribution in atmospheric particles as tracers for source apportionment***, Conferința Națională de Chimie, Ediția XXVII, Târgoviște, România, **2024**.
8. [Soroaga, L.V.](#), Arsene, C., Olariu, R.I. ***The influence of collision gas flow and aerosol dilution on the LoQ of an ICP-MS method tailored for atmospheric particles analysis***, International Conference "CHIMIA", **2024**.
9. Negru, A.G., [Soroaga, L.V.](#), Arsene, C., Olariu, R.I. ***A cost-effective ICP-MS method for total metals content analysis in size-resolved atmospheric particles***. Potential health implications, International Conference "CHIMIA", **2024**.
10. [Soroaga, L.V.](#), Arsene, C., Olariu, R.I., ***The importance of tailored calibration for quadrupole ICP-MS measurements***, IasiCHEM 5-MIT 2023 Conference, Iași, România, **2023**.
11. [Soroaga, L.V.](#), Arsene, C., Olariu, R.I. ***Method assessment for the quantification by ICP-MS of rare and refractory elements from silicate-rich samples***, Conferința Națională de Chimie, Ediția XXVI, Călimănești-Căciulata, România, **2022**.
12. [Soroaga, L.V.](#), Arsene, C., Olariu, R.I., ***Evaluation of the extended uncertainty for the quantification of rare earth elements by Inductively Coupled Plasma-Mass Spectrometry***,

Sesiunea de comunicări științifice a studenților, masteranzilor și doctoranzilor "Chimia - frontieră deschisă spre cunoaștere", Ediția a XII-a, Iași, România, 2021.

13. Gerber, I.C., [Soroaga, L.V.](#), Mihaila, I., Pohoata, V., Andrei, R.F., Iancu, D., Straticiuc, M., Topala, I., ***Energetic Processing of Interstellar Dust Analogs Obtained in Dielectric Barrier Discharge***, CPPA 2021 – 19th International Conference on Plasma Physics and Applications, Măgurele-București, România, 2021.

14. [Soroaga, L.V.](#), Arsene, C., Olariu, R.I., ***Rare Earth Elements analysis in secondary sources using Inductively Coupled Plasma – Mass Spectrometry***, Conferința școlilor doctorale din cadrul Universității „Alexandru Ioan Cuza” din Iași, Iași, România, 2020.

15. [Soroaga, L.V.](#), Arsene, C., Olariu, R.I., ***Assessing the performance of an analytical procedure using Certified Reference Materials***, Sesiunea de comunicări științifice a studenților, masteranzilor și doctoranzilor "Chimia - frontieră deschisă spre cunoaștere", Ediția a XI-a, Iași, România, 2020.

16. [Soroaga, L.V.](#), Arsene, C., Olariu, R.I., ***Analysis of Rare Earth Elements and Refractory Metals in volcanologic samples by ICP-MS using alkali fusion as sample dissolution procedure***, Sesiunea de comunicări științifice a studenților, masteranzilor și doctoranzilor, "Chimia – frontieră deschisă spre cunoaștere", Ediția a X-a, Iași, România, 2019.

17. [Soroaga, L.V.](#), Arsene, C., Breaban, I.G., Bobric, E.D., Borgia, C., Olariu, R.I., ***Rapid solid-state analysis versus accurate solution analysis. Assessment of an analytical procedure for REEs investigation***, IasiChem 2019, Ediția a 3-a, Iași, România, 2019.

18. Gerber, I.C., Mihaila, I., [Soroaga, L.V.](#), Chipier A.S., Pohoata, V., Topala, I., ***Interstellar carbonaceous dust analogs obtained in plasma. Morphology and chemical characterization***, CPPA 2019 – XVIIIth International Conference on Plasma Physics and Applications, Iași, România, 2019.

19. [Soroaga, L.V.](#), Arsene, C., Breaban I.G., Bobric E.D., Olariu, R.I., ***Rapid analysis of rare earth elements from solid samples by using on-line dissolution and inductively coupled plasma – mass spectrometry***, IasiChem 2018, Ediția a 2-a, Iași, România, 2018.

20. [Soroaga, L.V.](#), Arsene, C., Olariu, R.I., ***Analiza elementelor rare ale pământului folosind spectrometria de masă cu plasmă cuplată inductiv***, Conferința Națională a Școlilor Doctorale din Consorțiul Universitaria, Ediția I, Iași, România, 2018.

21. [Soroaga, L.V.](#), Arsene, C., Borgia, C., Olariu, R.I., ***ICP-MS analysis of rare earth elements in samples enriched by using environmentally friendly methods***, Conferința Națională de Chimie, Ediția XXXV, Călimănești-Căciulata, România, 2018.

22. [Soroaga, L.V.](#), Arsene, C., Olariu, R.I., ***Sintering as sample dissolution procedure for complex matrices prior analysis of REEs by ICP-MS***, Sesiunea de comunicări științifice a studenților, masteranzilor și doctoranzilor "Chimia – frontieră deschisă spre cunoaștere" – Ediția a IX-a, Iași, România, 2018.

23. Grădinaru, I.; Ignat, L.; [Șoroagă, L.V.](#); Antohe, M.E.; ***Researches regarding the architecture of different dental systems based on nanofibers and nanocomposites***, Simpozionul Științific de Medicină Dentară cu participare internațională – Provocări în Medicina Dentară Contemporană, București, România, 2017.

24. Stavarache, I.E.; Chiriac, V.; [Șoroagă L.V.](#); ***Physico-chemical characteristic of polymeric films use in ophthalmology***, The XXIIIrd International Congress "Preparing the future by promoting excellence", Zilele Universității Apollonia, Iași, România, 2017.

25. [Șoroagă, L.V.](#); Olariu, R.I.; Galon (Negru), A.G.; Arsene, C.; ***Elemental and morphological analysis of airborne particulate matter collected in Iasi region, north-eastern Romania***, Sesiunea de Comunicări Științifice a Studenților, Masteranzilor și Doctoranzilor, Ediția a VII-a, Iași, România, 2016.
26. [Șoroagă, L.V.](#); Arsene, C.; Pintilei, M.; Nica, V.; Borcia, C.; Olariu, R.I.; ***Chemical characterization of a series of samples as secondary sources for rare earth elements***, Conferința Națională de Chimie, Ediția XXXIV, Călimănești-Căciulata, România, 2016.
27. [Șoroagă, L.V.](#); Arsene, C.; Borcia, C.; Olariu, R.I.; ***Rare earth elements (REEs) microwave assisted extraction for further analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)***; Conferința Facultății de Chimie, Iași, România, 2016.
28. Mardare (Balusescu), G.; [Șoroagă, L.V.](#); Marin, L.S.; Agafitei, M.C.; Arsene, C.; Olariu, R.I.; ***Physico-chemical forensic expertise in the analysis of soil samples by graphite furnace atomic absorption spectrometry***, Conferința Facultății de Chimie, Iași, România, 2014.

Data,

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