

## LISTA COMPLETĂ DE LUCRĂRI

structurată conform Metodologiei de concurs pentru ocuparea posturilor de cercetare în  
Universitatea „Alexandru Ioan Cuza” din Iași

### a) Lista celor maximum 10 lucrări relevante

1. [Galon \(Negru\), A.G.](#), Olariu, R.I., Arsene, C., Size-resolved measurements of PM<sub>2.5</sub> water-soluble elements in Iasi, north-eastern Romania: Seasonality, source apportionment and potential implications for human health, *Science of the Total Environment*, 695, 133839, **2019**.
2. [Galon \(Negru\), A.G.](#), Olariu, R.I., Arsene, C., Chemical characteristics of size resolved atmospheric aerosols in Iasi, north-eastern Romania. Nitrogen-containing inorganic compounds controlling aerosols chemistry in the area, *Atmospheric Chemistry and Physics*, 18, 5879-5904, **2018**.
3. 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**.
4. 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**.
5. [Negru, A.G.](#), Roman, C., Amarandei, C., Arsene, C., Olariu, R.I., Investigations of potentially harmful limonene photooxidation products under NO<sub>x</sub> and NO<sub>x</sub>-free atmospheric simulated conditions, *Conference Proceedings of the SGEM Vienna GREEN 2023 „Green Science for Green Life”*, ISSN 1314-2704 (indexed Web of Science), *accepted, in print*, **2023**.
6. [Negru, A.G.](#), Arsene, C., Zbancioc, A.M., Mangalagiu, I., Olariu, R.I., Physico-chemical behaviour of newly synthesized macrocyclic compounds. A reality between expectations and experimental evidences, *Revista de Chimie Bucharest*, 66, 9, 1339-1342, **2015**.
7. Roman, C., Amarandei, C., [Negru, A.G.](#), Arsene, C., Bejan, I.G., Jamar, M., Dusanter, S., Olariu, R.I., Tomas, A., Atmospheric reactivity of ketolimonene: ozone kinetics, reaction products and SOA formation, *Goldschmidt*, **2023**, <https://doi.org/10.7185/gold2023.15870>.
8. [Galon \(Negru\), A.G.](#), Amarandei, C., Olariu, R.I., Arsene, C.; Source apportionment of PM<sub>2.5</sub> mass concentrations in Iasi urban area, north-eastern Romania, *European Aerosol Conference 2019 (EAC 2019)*, Gothenburg, Sweden, Source Apportionment Section, Conference Program, pp. 22, O1-F5-A, oral presentation, 25–30 August, **2019**.
9. [Galon \(Negru\), A.G.](#), Amarandei, C., Riffault, V., Tomas, A., Duncianu, M., Olariu, R.I., Arsene, C., High resolution time-of-flight mass spectrometry in submicrometric aerosol particles characterization, *National Conference of the Doctoral Schools from Universtaria Consortium, 1<sup>st</sup> Edition*, Iasi, Romania, Book of Abstracts, pp. 27-28, oral communication, 31 October – 3 November, **2018**.
10. [Galon \(Negru\), A.G.](#), Olariu, R.I., Arsene, C., Investigation on new atmospheric particles formation and growth in Iasi, north-eastern Romania; *The XXXV-th Romanian Chemistry Conference*, Calimanesti-Caciulata, Valcea, Romania, Book of Abstracts, p. 16, poster presentation, 03–05 October, **2018**.

### b) Teza sau tezele de doctorat

**Caracterizarea fizico-chimică a aerosolilor submicrometrici din atmosfera urbană /  
Physico-chemical characterisation of submicronic aerosols from urban atmosphere,**

Școala Doctorală de Chimie, Universitatea "Alexandru Ioan Cuza" din Iași, susținută public în data de 25 septembrie 2019.

**c) Brevete de invenție și alte titluri de proprietate industrial**

Nu este cazul.

**d) Cărți și capitole cărți**

Nu este cazul.

**e) Articole/studii *in extenso*, publicate în reviste din fluxul științific internațional principal**

1. 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**. (Factor impact: **4,600** Q1)
2. 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**. (Factor impact: **3,103**, Q2)
3. [Galon \(Negru\), A.G.](#), Olariu, R.I., Arsene, C., Size-resolved measurements of PM<sub>2.5</sub> water-soluble elements in Iasi, north-eastern Romania: Seasonality, source apportionment and potential implications for human health, *Science of the Total Environment*, 695, 133839, **2019**. (Factor impact: **6,551**, Q1)
4. [Galon \(Negru\), A.G.](#), Olariu, R.I., Arsene, C., Chemical characteristics of size resolved atmospheric aerosols in Iasi, north-eastern Romania. Nitrogen-containing inorganic compounds controlling aerosols chemistry in the area, *Atmospheric Chemistry and Physics*, 18, 5879-5904, **2018**. (Factor impact: **5,668**, Q1)
5. [Negru, A.G.](#), Arsene, C., Zbancioc, A.M., Mangalagiu, I., Olariu, R.I., Physico-chemical behaviour of newly synthesized macrocyclic compounds. A reality between expectations and experimental evidences, *Revista de Chimie Bucharest*, 66, 9, 1339-1342, **2015**. (Factor impact: **0,956**, Q3)

**f) Publicații *in extenso* apărute în lucrări ale principalelor conferințe internaționale de specialitate**

1. [Negru, A.G.](#), Roman, C., Amarandei, C., Arsene, C., Olariu, R.I., Investigations of potentially harmful limonene photooxidation products under NO<sub>x</sub> and NO<sub>x</sub>-free atmospheric simulated conditions, Conference Proceedings of the SGEM Vienna GREEN 2023 „Green Science for Green Life”, ISSN 1314-2704 (indexed Web of Science), *accepted, in print*, **2023**.

**g) Alte lucrări și contribuții științifice**

**Participări la manifestări științifice internaționale**

1. Roman, C., Amarandei, C., [Negru, A.G.](#), Arsene, C., Bejan, I.G., Jamar, M., Dusanter, S., Olariu, R.I., Tomas, A., Atmospheric reactivity of ketolimonene: ozone kinetics, reaction products and SOA formation, *Goldschmidt*, **2023**, <https://doi.org/10.7185/gold2023.15870>.
2. [Negru, A.G.](#), Roman, C., Amarandei, C., Arsene, C., Olariu, R.I., Investigations of potentially harmful limonene photooxidation products under NO<sub>x</sub> and NO<sub>x</sub>-free atmospheric simulated conditions, SGEM International Scientific Conferences on Earth & Planetary Sciences,

- Extended Scientific Sessions „Green Sciences For Green Life“, Vienna, Austria, oral presentation, 28 November - 1 December, **2023**.
- Roman, C., [Negru, A.G.](#), Amarandei, C., Arsene, C., Bejan, I.G., Vione, D., Olariu, R.I., Atmospheric sink mechanism of 4-isobutylacetophenone, a toxic intermediate product from ibuprofen decomposition, 18<sup>th</sup> International conference on chemistry and the environment, Venice, Italy, Book of Abstracts, p. 54, oral presentation, 11-15 June, **2023**.
  - 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, 18<sup>th</sup> International conference on chemistry and the environment, Venice, Italy, Book of Abstracts, p. 194, oral presentation, 11-15 June, **2023**.
  - Amarandei, C., [Negru, A.G.](#), Olariu, R.I., Arsene, C.; Investigation of size-resolved anthropogenic secondary organic aerosol molecular tracers derived from aromatic hydrocarbons, International Conference on Aerosol Science and Technology, Prague, Czechia, poster presentation, 3–4 September, **2020**.
  - [Galon \(Negru\), A.G.](#), Amarandei, C., Olariu, R.I., Arsene, C.; Source apportionment of PM<sub>2.5</sub> mass concentrations in Iasi urban area, north-eastern Romania, European Aerosol Conference 2019 (EAC 2019), Gothenburg, Sweden, Source Apportionment Section, Conference Program, pp. 22, O1-F5-A, oral presentation, 25–30 August, **2019**.
  - Amarandei, C., [Galon \(Negru\), A.G.](#), Mutzel, A., Herrmann, H., Olariu, R.I., Arsene, C.; First experimental evidences on the  $\alpha/\beta$ -pinene oxidation products contribution to the urbane particulate matter in Iasi, north-eastern Romania, European Aerosol Conference 2019, Gothenburg, Sweden, Source Apportionment Section, Conference Program, p. 113, P3-026, poster presentation, 25–30 August, **2019**.
  - Arsene, C., [Galon \(Negru\), A.G.](#), Mardare (Balusescu), G., Babusanu(Coman), A., Olariu, R.I.; About ultrasound assisted extraction and its suitability for studying physico-chemical processes in various complex matrices, 2<sup>nd</sup> Caparica Christmas Conference on Sample Treatment, Proceedings Book, ISBN 978-989-99639-2-4, Lisbon, Portugal, pp. 79-80, oral presentation, 5–7 December, **2016**.

### Participări la manifestări științifice naționale

- Roman, C., Amarandei, C., [Negru, A.G.](#), Arsene, C., Bejan, I.G., Tomas, A., Olariu, R.I., The atmospheric fate of a gaseous transformation product of limonene, IasiCHEM 5-MIT 2023 Conference, Iasi, Romania, Book of Abstracts, p. 9, oral presentation, 26-27 October, **2023**.
- [Negru, A.G.](#), Apostol, V., Iancu, C., Amarandei, C., Bejan, I.G., Olariu, R.I., Arsene, C., Investigations on optical properties of atmospheric aerosols from Iasi, north-eastern Romania, The XXXVI<sup>th</sup> Romanian Chemistry Conference, Calimanesti-Caciulata, Valcea, Romania, Book of Abstracts, p. 24, oral communication, 04-07 October, **2022**.
- Iancu, C., Mihalache, G., Amarandei, C., [Negru, A.G.](#), Grădinaru, R., Costică, N., Bejan, I.G., Olariu, R.I., Arsene, C., First insights into atmospheric bioaerosols from the Iasi urban area, The 13<sup>th</sup> Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, Book of Abstracts, p. 24, oral communication, 28 October, **2022**.
- Amarandei, C., [Galon \(Negru\), A.G.](#), Olariu, R.I., Arsene, C.; Investigarea markerilor moleculari organici din atmosfera urbană prin HPLC-ESI-ToF-MS. Dezvoltare de metodă, National Conference of the Doctoral Schools from Universitaria Consortium, 2<sup>nd</sup> Edition, Timisoara, Romania, Book of Abstracts, p. 38, oral presentation, 11–14 November, **2019**.
- Amarandei, C., [Galon \(Negru\), A.G.](#), Olariu, R.I., Arsene, C.; Characterization of phenolic biomass burning molecular tracers in size-resolved atmospheric aerosols, IasiChem 2019, Faculty of Chemistry Conference, Iasi, Romania, Book of Abstracts, p. 17, poster presentation, 31 October – 1 November, **2019**.

6. [Galon \(Negru\), A.G.](#), Olariu, R.I., Arsene, C.; The nucleation and growth rates of atmospheric particles in Iasi, north-eastern Romania, The 10<sup>th</sup> Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, poster presentation, 20–21 June, **2019**.
7. Amarandei, C., [Galon \(Negru\), A.G.](#), Olariu, R.I., Arsene, C.; High-performance liquid chromatography time-of-flight mass spectrometry method development for investigation of organic aerosols, The 10<sup>th</sup> Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, Book of Abstracts, p. 46, 20–21 June, **2019**.
8. [Galon \(Negru\), A.G.](#), Amarandei, C., Riffault, V., Tomas, A., Duncianu, M., Olariu, R.I., Arsene, C.; High resolution time-of-flight mass spectrometry in submicrometric aerosol particles characterization, National Conference of the Doctoral Schools from Universtaria Consortium, 1<sup>st</sup> Edition, Iasi, Romania, Book of Abstracts, p. 27, oral presentation, 31 October – 3 November, **2018**.
9. Amarandei, C., [Galon \(Negru\), A.G.](#), Riffault, V., Tomas, A., Duncianu, M., Bejan, I.G., Olariu, R.I., Arsene, C.; Attempts to characterize the organic aerosols using an Aerodyne High-Resolution Aerosol Mass Spectrometer, IasiChem 2018, Faculty of Chemistry Conference, Iasi, Romania, Book of Abstracts, p. 33, poster presentation, 25–26 October, **2018**.
10. [Galon \(Negru\), A.G.](#), Olariu, R.I., Arsene, C., Investigation on new atmospheric particles formation and growth in Iasi, north-eastern Romania; The XXXV-th Romanian Chemistry Conference, Calimanesti-Caciulata, Valcea, Romania, Book of Abstracts, p. 16, poster presentation, 03–05 October, **2018**.
11. Amarandei, C., [Galon \(Negru\), A.G.](#), Mutzel, A., Herrmann, H., Olariu, R.I., Arsene, C.; A preliminary investigation on the chemical composition of secondary organic aerosols in the north-eastern Romania, The XXXV-th Romanian Chemistry Conference, Calimanesti-Caciulata, Valcea, Romania, Book of Abstracts, p. 3, poster presentation, 03–05 October, **2018**.
12. [Galon \(Negru\), A.G.](#), Olariu, R.I., Arsene, C.; Meteorological parameters role on the formation and growth of new atmospheric particles in Iasi urban area, The 9<sup>th</sup> Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania Book of Abstracts, ISSN 2067-2438, ISSN (online): 2067 - 2446, Acta Chemica Iasi, vol. 26(2), p. 373, oral presentation, 29–30 June, **2018**.
13. Amarandei, C., [Galon \(Negru\), A.G.](#), Cucu-Man, S.M., Olariu, R.I., Arsene, C.; Assessment of lake water chemistry using statistical analysis, The 9<sup>th</sup> Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, Book of Abstracts, ISSN 2067-2438, ISSN (online): 2067- 2446, Acta Chemica Iasi, vol. 26(2), p. 389, poster presentation, 29–30 June, **2018**.
14. [Galon \(Negru\), A.G.](#), Olariu, R.I., Arsene, C.; Atmospheric behavior of water soluble organic anions in fine and coarse particulate matter from Iasi, Romania, IasiChem 2017, Iasi, Romania, Faculty of Chemistry Conference Book of Abstracts, ISSN 2067-2438, ISSN (online): 2067 – 2446, Acta Chemica Iasi, vol. 25(2), p. 322, poster presentation, 26–28 October, **2017**.
15. Amarandei, C., [Galon \(Negru\), A.G.](#), Cucu-Man, S.M., Olariu, R.I., Arsene, C.; Pedologic, atmospheric or anthropogenic contributions as driving forces for aquaculture water quality. A case study for an artificial lake from the north-eastern Romania”, IasiChem 2017, Iasi, Romania, Faculty of Chemistry Conference Book of Abstracts, ISSN 2067-2438, ISSN (online): 2067 – 2446, Acta Chemica Iasi, vol. 25(2), p. 324, poster presentation, 26–28 October, **2017**.
16. [Galon \(Negru\), A.G.](#), Olariu, R.I., Arsene, C.; Size distributions of water soluble aluminum and magnesium in atmospheric aerosols from Iasi, România, The 8<sup>th</sup> Scientific Session of Undergraduate, Master and PhD Students, Iasi Romania Book of Abstracts, ISSN 2067-2438, ISSN (online): 2067 – 2446, Acta Chemica Iasi, vol. 25(1), p. 102, poster presentation, 30 June, **2017**.

17. [Galon \(Negru\), A.G.](#), Olariu, R.I., Arsene, C.; Vertical transport of continental air masses and their influence on the distribution of size resolved aerosols from Iasi, Romania, "Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference Iasi Book of Abstracts, ISSN 2067-2438, ISSN (online): 2067 – 2446, Acta Chemica Iasi, vol. 24(2), p. 166, oral presentation, 27–28 October, **2016**.
18. [Galon \(Negru\), A.G.](#), Olariu, R.I., Arsene, C.; Trace Water Soluble Ions in Fine Atmospheric Particles from Iasi, North-Eastern Romania, The International Conference in Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences (IC-ANMBES 2016), 29 June–01 July, 2016, Brasov, Romania, Book of abstracts, Florescu, M., Raicu, V., LeGac, S., Turcu, I., Maerty, J.L., Eds., Transilvania University Press, ISSN 2360-3461, p. 116, poster presentation, 29 June–01 July, **2016**.
19. [Galon \(Negru\), A.G.](#), Pruna I., Olariu, R.I., Arsene, C.; Mono- and multimodal distributions of water soluble ionic species in urban particulate matter from Iasi, Romania, The 7<sup>th</sup> Scientific Session of Undergraduate, Master and PhD Students, Iasi Romania Book of Abstracts, ISSN 2067-2438, ISSN (online): 2067 – 2446, Acta Chemica Iasi, vol. 24(1), p. 65, poster presentation, 24 June, **2016**.
20. Soroaga L.V., Olariu R.I., [Galon \(Negru\), A.G.](#), Arsene, C.; Elemental and morphological analysis of airborne particulate matter collected in Iasi, north-eastern Romania, The 7<sup>th</sup> Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania Book of Abstracts, ISSN 2067-2438, ISSN (online): 2067 – 2446, Acta Chemica Iasi, vol. 24(1), p. 66, poster presentation, 24 June, **2016**.
21. [Galon \(Negru\), A.G.](#), Olariu, R.I., Arsene, C.; Atmospheric behavior and size distribution of water soluble acetate, formate and oxalate ions in urban aerosols from Iasi, Romania, International Conference "Chimia". Book of abstracts, vol. 2, ISSN 2360-3941, Ovidius University Press, Constanta 2016, p. 34, oral presentation, 26–28 May, **2016**.
22. [Galon \(Negru\), A.G.](#), Olariu, R.I., Arsene, C.; Particulate matter and gaseous pollutants variability in Iasi urban area, north-eastern Romania, 12<sup>th</sup> International Conference on Colloid and Surface Chemistry Book of abstracts, p. 53, poster presentation, 16–18 May, **2016**.
23. [Galon \(Negru\), A.G.](#), Olariu, R.I., Arsene, C.; Mass concentrations and chemical composition of size resolved atmospheric aerosols in the north-eastern Romania, Iasi region, Young Researchers' International Conference on Chemistry and Chemical Engineering (YRICCCE I) Book of abstracts, p. 35, poster presentation, 12–14 May, **2016**.
24. Marin, S.L., [Galon \(Negru\), A.G.](#), Mardare (Balusescu), G., Bejan, I., Olariu, R.I., Arsene, C.; Gas-phase kinetic study of on radical reactions with mesytilene in the newly designed ESCQ-UAIC chamber, Young Researchers' International Conference on Chemistry and Chemical Engineering (YRICCCE I) Book of abstracts, p. 34, poster presentation, 12–14 May, **2016**.
25. [Negru, A.G.](#), Zbancioc, G., Mangalagiu, I., Arsene, C., Olariu, R.I.; Physico-chemical behaviour of newly synthesized organic compounds. A reality between expectations and experimental evidences, 3<sup>rd</sup> French-Romanian Colloquim on Medicinal Chemistry, Iasi, Romania Book of Abstracts, ISSN 2067-2438, ISSN (online): 2067-2446, Acta Chemica Iasi, vol. 22(2), p. 216, poster presentation, 30–31 October, **2014**.
26. Tarcau, D., [Negru, A.G.](#), Vintu, V., Samuil, C., Cucu-Man, S.M.; Influence of organic and mineral fertilization on the content of polyphenols and tannins of forages from a permanent grassland in north-eastern Romania (Cosna), "Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference & Mini-Hot-Conference: „Recent Achievements in Organic and Supramolecular Chemistry” Book of Abstracts, ISSN 2067-2438, ISSN (online): 2067-2446, Acta Chemica Iasi, vol. 21(2) Supplement, p. 51, poster presentation, 31 October – 02 November, **2013**.