

Curriculum Vitae

Informații personale

Nume și prenume	NEGRU Alina-Giorgiana				
Afilieră/ Adresă	Centrul CERNESIM – Departamentul de Științe Exacte și Științe ale Naturii, Institutul de Cercetări Interdisciplinare, Universitatea „Alexandru Ioan Cuza” din Iași, Bulevardul Carol I, Nr. 11, 700506, Iași, România				
Telefon	+40-0756-962365	Fax	+40-0232-201313	E-mail	alina.negru@uaic.ro
Data de naștere	18 Ianuarie 1991	Naționalitate	Română	Gen	Feminin

Locul de muncă vizat

Asistent de cercetare științifică, Laborator de testarea și monitorizarea calității aerului urban, Air Quality Monitoring Station (RA-02), Proiect RECENT-AIR, Universitatea „Alexandru Ioan Cuza” din Iași

Educație și formare

2015-2019	Universitatea „Alexandru Ioan Cuza” din Iași, Școala Doctorală de Chimie, Titlul de Doctor în Chimie prin Ordinul ministrului educației și cercetării nr. 5345/25.11.2019 (Diploma de Doctor Seria I Nr. 0008439)
2013-2015	Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie, Diplomă de Master
2010-2013	Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie, Diplomă de licență
2006-2010	Colegiul Național ”Mihai Eminescu” – Botoșani, Diploma de Bacalaureat

Experiență profesională

2019/02 - prezent	Asistent de cercetare științifică, Centrul CERNESIM, Departamentul de Științe Exacte și Științe ale Naturii, Institutul de Cercetări Interdisciplinare, Universitatea „Alexandru Ioan Cuza” din Iași, România; Activități de cercetare legate de caracterizarea fizico-chimică a aerosolilor atmosferici
2016/03 - 2019/12	Asistent de cercetare științifică, Proiecte de cercetare – Centrul CERNESIM, Universitatea „Alexandru Ioan Cuza” din Iași, România; Activități de cercetare legate de la studiul proceselor și surselor care caracterizează aerosolii atmosferici din atmosfera urbană

Aptitudini și competențe

- tehnice	Abilități de lucru cu aparatură instrumentală: Sistem de scanare a mobilității particulelor de aerosoli – SMPS, Clasificator electrostatic TSI 3080 și Contor de particule condensate TSI 3787 (TSI), Spectrometru FTIR Vertex 70 cu module ATR și RAMAN II (BRUKER), Spectrometru de masă cu plasmă cuplată inductiv, ICP-MS 7700x (Agilent Technologies), Ion Cromatograf ICS-5000+DC (Thermo Scientific), Spectrofotometru UV-Vis cu dublu fascicul, Specord 210 Plus (ANALYTIC JENA) Spectrofluorimetru FLS-920s (EDINBURGH INSTRUMENTS), Analizoare pentru CO, CO ₂ , NO _x , O ₃ (ECOTECH); Cromatograf de lichide cuplat spectrometru de masă cu timp de zbor, 6224 TOF LC/MS, (Agilent Technologies); Cromatograf de gaze cuplat cu spectrometru de masă (Agilent Technologies), Cromatograf de lichide de înaltă performanță, UHPLC 1290 Infinity (Agilent Technologies).
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- **lingvistice**

Înțelegere	Vorbire	Scriere
1 B1	1 B1	1 B1
2 A2	2 A2	2 A2

(1 – Engleza; 2 – Franceză; Autoevaluare)

- **de utilizare a calculatorului**

O bună cunoaștere a programelor: Igor, SigmaPlot, Microsoft Office, Origin, și a instrumentelor software: ISORROPIA, PARGAN, ZeFir, Hysplit, EPA 5.0 PMF.

- **sociale**

Comunicativitate, bună organizare, responsabilitate, onestitate, perseverență. Sunt o persoană obișnuită să lucreze cu deadline-uri stricte și cu răbdare pentru fiecare detaliu. Spirit analitic și obiectiv, dobândit de-a lungul anilor de studiu. Abilitate de a comunica rezultatele cercetării prin participarea la conferințe naționale și internaționale.

Performanțe științifice recunoscute

- Premiul pentru “Cea mai bună comunicare”: [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 9th Scientific Session of Undergraduate, Master and PhD Students, 29 – 30 June, 2018, Iasi, Romania.
- Premiul I obținut la sesiunea de postere: [Galon \(Negru\), A.G.](#), Olariu, R.I., Arsene, C.; Size distributions of water soluble aluminum and magnesium in atmospheric aerosols from Iasi, România, The 8th Scientific Session of Undergraduate, Master and PhD Students, Book of Abstracts, ISSN 2067-2438, ISSN (online): 2067 – 2446, Acta Chemica Iasi, vol. 25(1), p. 102, 30 June, 2017, Iasi, Romania.
- Premiul III obținut la sesiunea de comunicări orale: [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, ISSN 2067-2438, ISSN (online): 2067 – 2446, Acta Chemica Iasi, vol. 24(2), p. 166, 27–28 October, 2016, Iasi, Romania.
- Finalizarea cu success a cursului “Air pollution: causes and impacts, IMTx - AQ1.1x”, și obținerea unui “Certificate of Achievement”, organizat de Institute Mines-Telecom, October 8-November 15, 2018, Lille Douai, France.
- Selectată cu succes pentru participarea la “The Voltaire Atmospheric Chemistry Summer School: Fundamentals for Atmospheric Chemistry”, 2-8 July 2017, Orléans, France.

Contribuții științifice

Indicatori ✓ **23 citări** (auto-citările excluse)
scientometrici ✓ **Factor Hirsh: 2**

Articole în jurnale indexate Web of Science: 4

1. 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**, Q2, Impact Factor: **3,103**, Relative Influence Score: 0,911.
2. [Galon-Negru, A.G.](#), Olariu, R.I., Arsene, C., Size-resolved measurements of PM_{2.5} 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**, Q1, Impact Factor : **6,551**, Relative Influence Score: 2,099.
3. [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**, Q1, Impact Factor: **5,668**, Relative Influence Score: 2,981.

4. [Negru, A.G.](#), Arsene, C., Zbancioc, A.M., Mangalagiu, I., Olariu, R., Physico-chemical behaviour of newly synthesized organic compounds. A reality between expectations and experimental evidences, *Revista de Chimie Bucharest*, 66, 9, 1339-1342, **2015**, Q3, Impact Factor: **0,956**, Relative Influence Score: 0,183.

Membru în proiecte de cercetare naționale: 7

1. Cercetarea de excelență în România în cadrul centrului CERNESIM, CER-CE, CNFIS-FDI-2018-0102, Project Director, Prof Dr. Ionel Mangalagiu, august 2018 - decembrie 2018.
2. Ozonolysis as a formation route of secondary organic aerosols. laboratory investigations on environmental reaction chamber, OLFA-ROA, PN-III-P4-ID-PCE-2016-0270, Financing agreement no. 38/2017, Project Director, Prof. Dr. habil. Romeo-Iulian Olariu, <https://sites.google.com/site/olfaroa/>, martie 2018 - decembrie 2019.
3. Investigations on atmospheric chemistry of cyclic oxygenated hydrocarbons, IGAC-CYCLO, PN-III-P4-ID-PCE-2016-0807, Financing agreement no. 118/2017, Project Director, CS II Iustinian Gabriel Bejan, <https://sites.google.com/site/igaccyclo/>, octombrie 2017 - decembrie 2019.
4. Assessing the Anthropogenic and Biogenic Emissions Impact on Atmospheric Urban Fine Organic Particles in Eastern Romania. Solving the Challenge of the Aerosols Missing Mass as a One Step Forward Tool, AI-FORECAST, PN-III-P4-ID-PCE-2016-0299, Financing agreement no. 37/2017, Prof. Dr. habil. Cecilia Arsene, <https://sites.google.com/site/aiforecast2017/>, septembrie 2017 - decembrie 2019.
5. Development And Validation of a Temperature Regulated Environmental Chamber for Studying Atmospheric Oxidation Processes and Mechanisms, DEV-TREC, PN-III-P2-2.1-PED-2016-0924, Financing agreement no. 78PED/2017, Project Director, Prof. Dr. habil. Romeo-Iulian Olariu, <https://sites.google.com/site/devtrec2017/>, iunie 2017 - iulie 2018.
6. Studies on the Oxidation of Substituted AROMATIC Compounds under Simulated Atmospheric Conditions, SOS-AROMATIC, PN-II-RU-TE-2014-4-2461, Financing agreement no. 305/01.10.2015, Project Director, CS II Iustinian Gabriel Bejan, <https://sites.google.com/site/sosaromatic/>, iulie 2016 - octombrie 2017.
7. Evaluation of Volatile Organics in the Lower/Upper Troposphere - their Impact on the Oxidizing, Noxious and Aerosol Influx Capacity in Romania, EVOLUTION-AIR, PN-II-ID-PCE-2011-3-0471, Financing agreement no. 200/05.10.2011, Project Director, Prof. Dr. habil. Cecilia Arsene, <https://sites.google.com/site/evolutionair2011/>, martie 2016 - octombrie 2016.

Participări conferințe internaționale: 4

1. 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**.
2. [Galon \(Negru\), A.G.](#), Amarandei, C., Olariu, R.I., Arsene, C.; Source apportionment of PM_{2.5} 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**.
3. Amarandei, C., [Galon \(Negru\), A.G.](#), Mutzel, A., Herrmann, H., Olariu, R.I., Arsene, C.; First experimental evidences on the α/β -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**.
4. 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, 2nd 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 conferințe naționale: 23

1. 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, 2nd Edition, Timisoara, Romania, Book of Abstracts, p. 38, oral presentation, 11–14 November, **2019**.
2. 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**.
3. [Galon \(Negru\), A.G.](#), Olariu, R.I., Arsene, C.; The nucleation and growth rates of atmospheric particles in Iasi, north-eastern Romania, The 10th Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, poster presentation, 20–21 June, **2019**.
4. 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 10th Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, Book of Abstracts, p. 46, 20–21 June, **2019**.
5. [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, 1st Edition, Iasi, Romania, Book of Abstracts, p. 27, oral presentation, 31 October – 3 November, **2018**.
6. 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**.
7. [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**.
8. 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**.
9. [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 9th 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**.
10. Amarandei, C., [Galon \(Negru\), A.G.](#), Cucu-Man, S.M., Olariu, R.I., Arsene, C.; Assessment of lake water chemistry using statistical analysis, The 9th 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**.
11. [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**.

12. 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**.
13. [Galon \(Negru\), A.G.](#), Olariu, R.I., Arsene, C.; Size distributions of water soluble aluminum and magnesium in atmospheric aerosols from Iasi, România, The 8th 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**.
14. [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**.
15. [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**.
16. [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 7th 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**.
17. 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 7th 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**.
18. [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**.
19. [Galon \(Negru\), A.G.](#), Olariu, R.I., Arsene, C.; Particulate matter and gaseous pollutants variability in Iasi urban area, north-eastern Romania, 12th International Conference on Colloid and Surface Chemistry Book of abstracts, p. 53, poster presentation, 16–18 May, **2016**.
20. [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**.
21. 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**.

22. [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, 3rd 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**.
23. 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**.