

## PERSONAL INFORMATION

### KIM LIDIA



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Sex Female | Nationality Romanian

## WORK EXPERIENCE

<b>Name and address of employer</b>	<b>National Research and Development Institute for Industrial Ecology – ECOIND, Bucharest</b> Address: 71-73 Drumul Podu Dambovitei St., sector 6, Bucharest, zip code 060652, Romania, Tel. +04 021410 6716 / 4100377, external 262, Fax +4021 4100575/ 4120042, website: <a href="http://www.incdecoind.ro">http://www.incdecoind.ro</a>
<b>Dates</b>	2011 - present
<b>Occupation or position held</b>	<b>Senior Scientific Researcher - R4</b> <b>Chemist (2011 – present)</b> <b>President of the Scientific Council of INCD ECOIND (2023 – present)</b> <b>President of the Technical-Economical Commission of INCD ECOIND (2022 – present)</b> <b>Head of Department of Assessment and Environmental Pollution Monitoring (2017-2022)</b>
<b>Type of activity or sector</b>	Advanced and applied research in the field of environmental protection and industrial ecology, ecological pollution control and assessment, environmental technologies, environmental and quality management, consultancy and training, environmental technical expertise
<b>Main activities and responsibilities</b>	<b>Research – Development – Innovation</b> - Coordination of scientific and technical activity at the institute level to achieve the objectives set out in the development strategy of the research and development activity; - Active participation as project manager and member of research teams in projects within national and European programs; - Verification and approval of research reports developed within the institute; - Elaboration of project proposals within national programs (TE 2016, PED 2019, PED 2021 type projects as Project Director) and European programs (Horizon 2020 – team member); - Coordination of the activity and elaboration of the necessary formalities for capitalizing on the research results obtained in the department through the transfer of knowledge/technical solutions to economic agents; - Dissemination of research results in the country and abroad through the publication of book chapters, ISI articles, BDI articles, and papers presented in national and international scientific events; - The development of new research directions in the field of environmental pollution assessment (aquatic ecosystems, contaminated soils, ecological impact) and the field of waste management (hazardous waste assessment, post-closure assessment of waste deposits, solutions for adequate waste management);

- Research team coordination for the implementation and organization of interlaboratory comparison schemes;
- Identifying optimal solutions for integrated waste management to implement them at various waste generators/collectors
- Promotion and implementation of valuable tools in department-level research activity (EndNote X7, Web of Knowledge, Science Direct).

#### **Scientific Publications**

- 28 ISI publications, of which 13 articles - main author or corresponding author
- 1 book chapter published by an international publishing Book
- 6 ISI-Proceedings conferences
- 12 BDI articles
- 33 articles/papers in magazines and volumes of national and international conferences
- 166 citations (129 without self-citations)
- Hirsch index 7

#### **Activities in the field of analytical chemistry**

- Coordination and verification of analytical activity requested by those responsible for scientific research topics carried out in the institute;
- Development and validation of modern analysis methods for the quantification of toxic metals in different waste matrices by ICP-MS and AAS techniques;
- Experimental studies on the accumulation and mobility of heavy metals in sediments and surface water in mining areas and anthropogenically polluted areas;
- Experimental studies to determine the dangerous fractions from various environmental matrices;
- Experimental studies to quantify petroleum products in complex waste matrices;
- Realization of experimental studies - schemes of interlaboratory comparisons
- Analysis of metals and petroleum products for environmental studies developed within the Environmental Pollution Monitoring Evaluation Department (Environmental Balance Sheets, Site Reports, Ecological Risk Assessment Studies).

#### **Managerial activities**

- Planning, organizing, coordinating, and controlling scientific activities
- Management of 8 ongoing/ongoing research projects (2012 – present);

#### **Training activities**

- Junior researchers training in analytical techniques, such as UV-VIS, AAS-GF, ICP-MS, FT-IR;
- Junior researchers training to identify research themes aligned with current European trends in the field of environmental protection and industrial ecology;
- Junior researchers training for the validation of methods for the analysis of various contaminants in environmental samples.

#### **Other Connex Activities**

- Participation as an expert for public policy development in the RDI field (Consolidation and development of the RDI infrastructure in the future strategic cycle 2021-2027 through: "Training of a body of professionals in ITT at the disposal of ReNITT and the National Research System."
- Evaluator of research projects (Appendix 3)
- Reviewer of articles (Water, Minerals, Atmosphere, Applied Science, Romanian Journal of Ecology & Environmental Chemistry, Revista de Chimie) (Appendix 3)
- Expert for the certification/expertise of the research-development activity in the field of intelligent specialization at the national level: Advanced functional materials (MCID Order no.

20242/13.02.2023, Annex 5) 2023 - present

#### Other responsibilities

- Member of the Scientific Council of INCD ECOIND (2019-2022)
- President of the COMPETITION COMMISSION for promotion to CS III professional degree (November 2023)
- President of the COMPETITION COMMISSION for promotion to the CS professional degree (June 2021);
- President of the COMPETITION COMMISSION for the occupation of research positions within INCD ECOIND (August 2021);
- Member of the COMPETITION COMMISSION for promotion to CS III professional degree (July 2020);
- Member of the Commission for evaluation of offers for the purchase of consumables and reagents at the level of INCD ECOIND (2018);
- President of the Commission for the evaluation of offers for the purchase of equipment at the level of INCD ECOIND (2017);
- Chairman of the Subcommittee for the inventory of assets, liabilities, and equity owned by INCD ECOIND (2019, 2020, 2021).

#### Member of professional associations

- Member of the Romanian Chemistry Society;
- Member of the Romanian Environmental Association;
- Member of the International Society of Industrial Ecology (ISIE)
- Member of the International Solid Waste Association (ISWA)

#### Editorial collective member/conference organization committees

- Member of the Editorial Advisory Committee of the Journal: Romanian Journal of Ecology & Environmental Chemistry (<http://rjeec.ro/EditorialBoard>)
- Member of the Organizing Committee "International Environment and Industry Symposium", SIMI 2023 (<https://www.simiecoind.ro/comitet-stiintific>)
- Member of the Organizing Committee and Invited Speaker at the World Summit on Environmental Science and Applications, WSESA 2025 (<https://environmentalsciencesummit.org/committee>)

#### Member of the doctoral studies commission

- Member of the Doctoral Commission for examination and public presentation of the doctoral thesis – march 2024 (Decision no. 9 of 08.03.2024 of the Director of the CSUD of the National University of Science and Technology POLITEHNICA Bucharest)
- Member of 2 advisory committees for university doctoral studies – Doctoral School of Chemical Engineering and Biotechnologies, National Universities of Science and Technology, POLITEHNICA Bucharest 2022 - present

#### Experience gained at work

- Experience in running national and international projects as a project manager and as a member of the research team
- Experience in analytical techniques: Inductively Coupled Plasma Mass Spectrometry (ICP-MS), Graphite Furnace Atomic Absorption Spectrometry (AAS-GF), Gas Chromatography Coupled Mass Spectrometry (GC-MS), molecular absorption (UV/VIS), X-ray fluorescence spectrometry (XRF)
- Experience in developing proposals for national and international projects
- Experience in reviewing scientific articles
- Experience in evaluating research projects
- Experience in waste management and environmental assessments

**Name and address of employer** **University of Bucharest, Faculty of Chemistry,**  
Address: 36-46 M. Kogălniceanu Bvd, Sector 5, 050107, Bucharest, Romania, Tel. +4021 307 7300 [www.chimie.unibuc.ro](http://www.chimie.unibuc.ro)

**Dates** 2006 - 2010

**Occupation or position held** Assistant scientific researcher – PhD Student

**Main activities and responsibilities Accumulated experience**

- Membership in the research projects;
- Involvement in coordination and verification laboratory work students;
- Experience in supramolecular chemistry and advanced materials (cyclodextrins, calixarene);
- Experience in membranes and recognition studies of biological compounds with advanced materials such as cyclodextrins and calixarene and analytical techniques (UV-VIS, SEM, FTIR).

Type of business or sector: High Education

## EDUCATION AND TRAINING

Period	April 2022
Domain studied	Technological Transfer
Name of the professional institution / organization	<b>CIT IRECSO</b>
Type of qualification	Certificate
Period	May 2018
Domain studied	General requirements for the competence of testing and calibration laboratories according to ISO / IEC 17025: 2017
Name of the professional institution / organization	<b>CERTIND Personnel Training Center</b>
Type of qualification	Certificate no. L1.10-2018
Period	February 2017
Domain studied	Trainer
Name of the professional institution / organization	<b>National Authority for Qualifications</b>
Type of qualification	Certificate no. L/Nr. 00102949
Period	August 2016
Domain studied	Risk management
Name of the professional institution / organization	<b>National Research and Development Institute for Industrial Ecology – ECOIND</b>
Type of qualification	Certificate no. 13/2016/02
Period	August 2016
Domain studied	Managerial internal control system
Name of the professional institution / organization	<b>National Research and Development Institute for Industrial Ecology – ECOIND</b>
Type of qualification	Certificate no. 13/2016/01

Period February 2016  
 Domain studied Quality assurance and control in environmental testing laboratories  
 Name of the professional institution / organization **Institutul Național de Cercetare-Dezvoltare pentru Ecologie Industrială – ECOIND**  
 Type of qualification Certificat

Period 2006 - 2011 Level EQF 8  
 Domain studied **Doctoral studies**  
 Name of the professional institution / organization **University of Bucharest**  
**Faculty of Chemistry**  
 Type of qualification Regina Elisabeta Bvd. No. 4-12, Sector 3, zip code 030018, Bucharest, Romania  
[www.chimie.unibuc.ro](http://www.chimie.unibuc.ro)  
 Diploma - PhD in chemistry

Period 1995 - 2000 Level EQF 6  
 Domain studied **Bachelor degree**  
 Name of the professional institution / organization **University of Bucharest**  
**Faculty of Chemistry**  
 Type of qualification Regina Elisabeta Bvd. No. 4-12, Sector 3, zip code 030018, Bucharest, Romania  
[www.chimie.unibuc.ro](http://www.chimie.unibuc.ro)  
 Diploma – Licentiate in chemistry

## PERSONAL SKILLS

Mother tongue Romana

Other language	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Listening	Reading
Engleza	B2	C2	B2	B2	C2

**Communication skills** - Good communication skills acquired through oral presentations at various conferences, symposiums and workshops

**Organisational / managerial skills** - Good organizational and managerial skills - currently lead a team of 12 people

**Job-related skills** - Knowledge of the Environmental Quality and Risks System  
 - Elaboration of national / international research projects

Digital skills	SELF-ASSESSMENT				
	Content creation	Content creation	Content creation	Content creation	Content creation
	Advanced level	Advanced level	Advanced level	Advanced level	Advanced level

Driving licence B

## ADDITIONAL INFORMATION

### List of publications

#### Book chapter

Ata Amini, 2018, Sedimentation Engineering, Editor IntechOpen, Croatia, ISBN 978-1-78923-002-4, Authori: **Kim Lidia**, Vasile Gabriela Geanina, Pascu Luoana Florentina, Stanescu Bogdan, Anghelache Alina Maria, Batrinescu Gheorghe, Cristea Nicolae Ionut. Chapter: *Spatio-temporal evolution of sediments pollution with mobile heavy metals in an abandoned mining area from Romania*.

#### ISI Publications

1. *Preliminary Studies Regarding Chromium Extraction from Chromium-Tanned Leather Waste*. Codreanu (Manea) Ana-Maria Nicoleta, Stefan Daniela Simina, Kim Lidia, Cernica Georgiana, University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry and Materials Science, 87 (2), 151-164, 2025.
2. *Depollution of Polymeric Leather Waste by Applying the Most Current Methods of Chromium Extraction*, Ana-Maria Nicoleta Codreanu (Manea), Daniela Simina Stefan, Lidia Kim, Mircea Stefan. Polymers, 16(11), 1546, 2024, <https://doi.org/10.3390/polym16111546>.
3. *Occurrence and distribution of azole antifungal agents in eight urban Romanian waste water treatment plants*. Vasile-Ion Iancu, Laura-Florentina Chiriac, Iuliana Paun, Florinela Pirvu, Cristina Dinu, Lidia Kim, Luoana Florentina Pascu, Marcela Niculescu. Science of the Total Environment 920, 170898, 2024, online.
4. *Spatiotemporal Assessment of Soil and Vegetation Pollution with Toxic Metals from Road Traffic along the First Romanian Highway*. Luoana Florentina Pascu, Bogdan Adrian Stănescu, Marian Gabriel Gâsnac and **Lidia Kim\***. Environments, 11, 21, 1-20, 2024.
5. *A Comprehensive Methodology for Assessing the Hazardous-ness of Waste Categorized in European Legislation as "Mirror 3 Entries" - Case Studies*. **Lidia Kim**, Adriana Cuciureanu, Luoana Florentina Pascu, Oana Cătălina Tache (Țăpurică), Gina Alina Catrina (Trăistaru), Environments, 10, 183, 1-16, 2023.
6. *Removal of Metals from Aqueous Solutions Using Sea Buckthorn Waste from Dietary Supplement Technology*. **Lidia Kim**, Gina-Alina Catrina (Traistaru), Georgiana Cernica, Vasile Staicu, Mariana Popescu and Cristina Ileana Covaliu. Sustainability, 13, 1441, 2021.
7. *CO-Processing - Towards Economic Sustainability*. Madalina Arama, **Lidia Kim\***. Environmental Engineering and Management Journal, 20 (1), 109-119 (2021).
8. *The Chemical Fractions and Leaching of Heavy Metals in Ash from Medical Waste Incineration using Two Different Sequential Extraction Procedures*. **Lidia Kim**, Gina Alina Catrina (Traistaru)\*, Bogdan Stanescu, Luoana Florentina Pascu, Tanase Gheorghita, Daniel Manolache., Rev. Chim. (Bucharest), 70(1), 286-292 (2019), 70(1), 269-274, (2019).
9. *Liquid waste management methodology. A waste-to-energy approach*. **Kim Lidia**, Arama Madalina Georgeta. Environmental Engineering and Management Journal, 1 (12), 2663-2671 (2019).
10. *Handling specific issues of waste hazardousness evaluation according to waste type*. **Lidia Kim**, Georgeta Madalina Arama, Adriana Cuciureanu, Doina Guta. Environmental Engineering and Management Journal, 17 (12), 2945-2956 (2018).
11. *Ecological risk prediction in relation to the potential detrimental consequences at disposal of different industrial wastes*. **Kim Lidia**, Arama Georgeta Madalina. Environmental Engineering and Management Journal, 2018, Vol. 17,



No. 9, pp. 2201-2210.

12. *Distribution of Trace Metals in Surface Water and Streambed Sediments in the Vicinity of an Abandoned Gold Mine from Hunedoara County, Romania.* **Kim Lidia**, Vasile Gabriela Geanina, Stanescu Bogdan, Dinu Cristina, Ene Corina., Revista de Chimie (67), 8, 1441 – 1446, (2016).
13. *Distribution and bioavailability of mobile arsenic in sediments from a mining catchment area.* **Lidia Kim**, G. G. Vasile, B. Stanescu, S. Calinescu, G. Batrinescu. Journal of Environmental Protection and Ecology 16, No 4, 1227–1236, 2015.
14. *Selective membrane transport of amino acids by functionalised calix[4]arenes.* **Lidia Kim**, A. Hamdi, A. D. Stancu, R. Souane, L. Mutihac, J. Vicens, Journal of Inclusion Phenomena and Macrocyclic Chemistry, 66 (1-2), pp. 55-59, 2010.
15. *Extraction and transport behaviour of aromatic amino acids by modified cyclodextrin.* **Lidia Kim**, A. D. Stancu, E. Diacu, H. J. Buschmann, L. Mutihac, Supramolecular Chemistry, 21 (1-2), pp. 131-134, 2009.
16. *Platinum Group Elements in Road Dust and Vegetation from Some European and National Roads with Intensive Car Traffic in Romania.* Gabriela Geanina Vasile, Cristina Dinu, **Lidia Kim\***, Anda Tenea, Marius Simion, Corina Ene, Claudiu Spinu, Eleonora\_Mihaela Ungureanu, Daniel Manolache., Rev. Chim. (Bucharest), 70(1), 286-292 (2019). –  
\* autor de corespondenta
17. *Soil and vegetation pollution from an abandoned mining area situated in Hunedoara County, Romania.* Dinu Cristina, Ungureanu Eleonora Mihaela, Vasile Gabriela Geanina, **Kim Lidia**, Ionescu Ioana Ene Corina, Simion Marius. Revista de Chimie (Bucuresti), 2018, 69 (1), p. 14-20.
18. *Evaluation of the bioavailability and pollution indexes of some toxic metals in polluted soils from an abandoned mining area.* Dinu Cristina, Ungureanu Eleonora Mihaela, Vasile Gabriela Geanina, **Kim Lidia**, Pascu Luoana Florentina, Simion Marius. Revista de Chimie (Bucharest), vol. 69, no. 11, pp. 4141-4147, 2018.
19. *Evaluation of the relevant environmental aspects of some locations intended for new investments.* Stanescu Bogdan, **Kim Lidia**, Traistaru Gina, Cuciureanu Adriana, Tanase Gheorghita. Revista de Chimie (Bucharest), vol. 69, no. 11, pag. 4161-4165, 2018.
20. *The Groundwater Quality of the Area Tailings Mining Ponds in the North of Romania.* Adriana Cuciureanu, **Lidia Kim**, Carol Blaziu Lehr, Corina Ene. Revista de Chimie (Bucuresti) (68), 8, 2017.
21. *Rheological Properties and Stability of Squalene Emulsion Prepared with Non-Ionic Emulsifier.* Alina Maria Anghelache, **Lidia Kim**, Adriana Cuciureanu, Gheorghe Batrinescu, Luoana Florentina Pascu. Revista de Chimie (Bucuresti) (68), 8, 2017.
22. *Environmental Impact Assessment of Odours from Solid Waste Landfills Located in Highly Urbanized Areas.* Andrei Vasile, Valeriu Danciulescu, Tanase Gheorghita, **Lidia Kim**, Violeta Dediu. Revista de Chimie (Bucuresti) (68), 8, 2017.
23. *Practical aspects of hydrogeological investigations and assesment of the environmental components pollution in urban areas. Case study.* B. Stanescu, Gh. Batrinescu, A. Cuciureanu, **Lidia Kim**, D. Scradeanu, M. Scradeanu, Journal of Environmental Protection and Ecology 15 (3) pp. 870-877, 2014.
24. *Establishing interrelations between saturated and unsaturated zone premises for studying hazards near municipal landfills. Case study.* B. Stanescu, Gh. Batrinescu, **Lidia Kim**, Journal of Environmental Protection and Ecology 14 (4) pp. 1608-1613, 2013.
25. *Mass spectrometric behaviour of functionalized calix[4]arenes: the screening ability of host–guest complex formation with amino acid methyl esters.* A. Medvedovici, F. Albu, A. Hamdi, R. Souane, **Lidia Kim**, L. Mutihac, J. Vicens, Journal of Inclusion Phenomena and Macrocyclic Chemistry 71 (3-4), pp. 545-555, 2011.

26. *Extraction behaviour of amino acid esters by functionalised calix[4]arenes*. A. Hamdi, R. Souane, **Lidia Kim**, R. Abidi, L. Mutihac, J. Vicens, *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, 64 (1-2), pp. 95-100, 2009.
27. *The obtaining of high sensitivity and specificity transducer media for sensors specialized in biological toxin detection*. N. Petrea, P. Z. Iordache, V. Somoghi, I. Savu, M. Muresan, R. Petre, L. Rece, R. Lungu, A. Pretorian, G. Mitru, B. Dionezie, B. Savu, L. Mutihac, **Lidia Kim**, V. Ordeanu, *Digest Journal of Nanomaterials and Biostructures*, 4 (4), pp. 699-712, 2009.
28. *The coating of  $n[\text{SiO}_{1.5}-(\text{CH}_2)_3(\text{NH}_2)]$  ultrathin layers on the surface of  $\text{Fe}_3\text{O}_4$  nanoparticles and the analysis of their coating dynamics*. P. Z. Iordache, V. Somoghi, I. Savu, N. Petrea, G. Mitru, R. Petre, B. Dionezie, V. Ordeanu, **Lidia Kim**, L. Mutihac. *Optoelectronics and Advanced Materials-Rapid Communications*, 2 (8), pp. 491-497, 2008.

### ISI Proceedings Conferences

1. *Experimental models of characterization and analysis of industrial waste*. **Lidia Kim**, Alina-Maria Muresan, Adriana Cuciureanu, Doina Guta, Madalina Arama, Nicolae Ionut Cristea, Violeta Dediu. International Symposium "The Environment and the Industry", SIMI 2017, DOI: <http://doi.org/10.21698/simi.2017.0018>.
2. *ECOLIB, Library of National R&D Institute for Industrial Ecology, an on-line tool for environmental topics area*. Gabriela Geanina Vasile, Ionut Radu Popescu, Theodor Iamandi, **Lidia Kim**, Calin Maxim, Catalina Stoica, Ioana Ionescu, Olga Tiron, Stefania Gheorghe, Marius Simion. International Symposium "The Environment and the Industry", SIMI 2017, DOI: <http://doi.org/10.21698/simi.2017.0040>.
3. *Assessment of the environmental aspects in a city area affected by historical pollution*. Bogdan Stanescu, **Lidia Kim**, Carol Lehr, Elena Stanescu. International Symposium "The Environment and the Industry", SIMI 2017, DOI: <http://doi.org/10.21698/simi.2017.0016>.
4. *The assessment of dangerousness of waste. Case study: waste originating from drilling muds*. Doina Guta, Adriana Cuciureanu, **Lidia Kim**, Madalina Arama. International Symposium "The Environment and the Industry", SIMI 2017, DOI: <http://doi.org/10.21698/simi.2017.0024>.
5. *General scheme to evaluate the dangerousness of wastes in order to manage them by producer/holder organizations*. Georgeta Madalina Arama, **Lidia Kim**, Doina Guta. International Symposium "The Environment and the Industry", SIMI 2017, DOI: <http://doi.org/10.21698/simi.2017.0019>.
6. *Ecological assessment of mobile cadmium in sediments from Certej mining site, Hunedoara County, Romania*. Gabriela Geanina Vasile, **Lidia Kim**, Stefania Gheorghe, Bogdan Stanescu 13th SGEM GeoConference on Ecology, Economics, Education And Legislation, WOS:000349062300040, ISBN:978-619-7105-04-9, Albena, Bulgaria, 2013.

### BDI Publications

1. *Heavy Metals as Impurities in the Bayer Production Cycle of the Aluminum Hydroxide from Sierra Leone Bauxite. Preliminary Study*. Gheorghe Dobra, Sorin Iliev, Lucian Cotet, Alina Boiangiu, Iosif Hulka, Lidia Kim, Gina Alina Catrina and Laurentiu Filipescu. *Journal of Siberian Federal University. Engineering & Technologies* 2021 14(2): 151-165, DOI: 10.17516/1999-494X-0296.
2. *Waste management and their environmental impact: Challenges and opportunities at national level*. **Lidia Kim**, Georgeta Madalina Arama, Gheorghe Batrinescu, Mihai Bratu, Agnes Serbanescu, Carol Blaziu Lehr, *Romanian Journal of Ecology & Environmental Chemistry*, vol.2, no.1, 2020.



3. *Adequate pollution management - a must for implementation of 'One Health' concept.* Georgeta Madalina Arama, **Lidia Kim**, Mihai Nita-Lazar, Luoana Florentina Pascu, Carol Blaziu Lehr, Romanian Journal of Ecology & Environmental Chemistry, vol.2, no.1, 2020.
4. *Determination of phosphorus in different types of waste using the ICP-MS technique.* Gina Alina Catrina, **Lidia Kim**, Agnes Serbanescu, Georgiana Cernica, Ionut Cristea, Mona Barbu, Ileana Nicolescu, Gabriela Geanina Vasile, Romanian Journal of Ecology & Environmental Chemistry, vol.2, no.2, 2020.
5. *Experimental method for the assessment and characterization of hazardous waste for long-term storage.* Gina Alina Catrina, Bogdan Stanescu, Agnes Serbanescu, Georgiana Cernica, **Lidia Kim**. Romanian Journal of Ecology & Environmental Chemistry, vol.3, no.1, 2021.
6. *Chemical characterization methods for biodegradable organic wastes with relevance for the composting process. Case study.* Gina Alina Catrina, **Lidia Kim**, Agnes Serbanescu, Georgiana Cernica, Costel Bumbac, Marius Sburlis, Romanian Journal of Ecology & Environmental Chemistry, vol.3, no.2, 2021.
7. *Lanthanides as impurities in the Bayer production cycle of the aluminum hydroxide from Sierra Leone bauxite.* **Lidia Kim**, Gheorghe Dobra, Raluca Isopescu, Sorin Iliev, Lucian Cotet, Alina Boiangiu, Gina Alina Catrina, Laurentiu Filipescu, Romanian Journal of Ecology & Environmental Chemistry, vol.4, no.1, 2022.
8. *Short review on mechanical activation in non-metallurgical alumina production.* **Lidia Kim**, Gheorghe Dobra, Raluca Isopescu, Sorin Iliev, Lucian Cotet, Alina Boiangiu, Laurentiu Filipescu. Romanian Journal of Ecology & Environmental Chemistry, vol.4, no.2, 2022.
9. *Geochemical evaluation of soils, surface and groundwater from natural protected areas from Romania. Case studies.* Bogdan Adrian Stanescu, Adriana Cuciureanu, Gina Alina Catrina, Georgiana Cernica, **Lidia Kim**. Romanian Journal of Ecology & Environmental Chemistry, vol. 3, no.2, 2021.
10. *Challenges in Pretreatment/Treatment of Oil in Water Emulsions for Oil Waste Management in the Context of Sustainable Development.* Arama Madalina Georgeta, **Kim Lidia**, Stroia Diana. Revista de Chimie, 71 (4), 2020, pp. 297-303.
11. *Characterization of different types of biomass wastes using thermogravimetric and ICP-MS analyses.* **Kim Lidia**, Catrina Gina Alina, Covaliu Cristina Ileana, Pascu Luoana Florentina, Cristea Ionut, Serbanescu Agnes, Cernica Georgiana. Revista de Chimie (Bucharest), 2019, vol. 70, no. 12, pp. 4584-4590.
12. *Municipal solid waste (MSW) - competitive raw materials for combustible materials obtaining.* Serbanescu Agnes, Barbu Mona, Cristea Ionut, **Kim Lidia**, Catrina Gina Alina, Cernica Georgiana, Nicolescu Ileana. Romanian Journal of Ecology & Environmental Chemistry, vol. 2, no. 2, 2020, p. 170-179.

#### Articles/works in journals of national and international conferences

1. *Optimized method for the determination of arsenic, cadmium and lead from the biomass wastes.* Catrina Gina Alina, **Kim Lidia**, Pascu Luoana Florentina, Serbanescu Agnes, Cernica Georgiana, Cristea Ionut, Barbu Mona. International Symposium "The Environment and the Industry", 26-27 September 2019, Bucharest, Romania, pp. 78-79.
2. *Optimized method for determination of minor elements from Romanian biomass ash.* Catrina Gina Alina, Stanescu Bogdan, **Kim Lidia**, Serbanescu Agnes, Cernica Georgiana. International Multidisciplinary Scientific

GeoConference-SGEM, Geoconference on Science and Technologies in Geology, Recycling, SGEM 2019, vol. 19, 2019, pp.741-748.

3. *Recent approaches regarding the selection of appropriate methods for the characterization and analysis of used oils in order to assessment of the metals content.* **Kim Lidia**, Stanescu Bogdan, Cuciureanu Adriana, Arama Madalina Georgeta, Traistaru Gina Alina, 18th International Multidisciplinary Scientific GeoConference SGEM 2018, Albena, Bulgaria, 30 june - 9 iuly 2018, pp. 121 – 128, doi:10.5593/sgem2018/4.2.
4. *Conceptual model regarding the management of main flow waste in the context of circular economy.* **Lidia Kim**, Bogdan Stanescu, Agnes Serbanescu, Adriana Cuciureanu, Madalina Arama. 21th International Symposium „The Enviroment and the Industry” SIMI 2018, 20-21 september, 2018, Bucuresti, pag 63-64, 2018, doi: 10.21698/simi.2018.ab23.
5. *End of waste criteria for oil wastes.* Georgeta Madalina Arama, **Lidia Kim**, Adriana Cuciureanu, Agnes Serbanescu, Ileana Nicolescu, Mona Barbu, Bogdan Stanescu, Gina Traistaru. 21th International Symposium „The Enviroment and the Industry” SIMI 2018, 20-21 september, 2018, Bucuresti, pag. 206-214, 2018, doi: 10.21698/simi.2018.fp25.
6. *Environmental assessment of a location intended for implementation of an investment project.* Bogdan Stanescu, **Lidia Kim**, Gina Traistaru, Adriana Cuciureanu, Gheorghita Tanase. 21th International Symposium „The Enviroment and the Industry” SIMI 2018, 20-21 september, 2018, Bucuresti, pag 65-66, 2018, doi: 10.21698/simi.2018.ab24.
7. *Pollution indexes for soil quality assessment.* Cristina Dinu, Eleonora-Mihaela Ungureanu, **Lidia Kim**, Luoana Florentina Pascu, Marius Simion. 21th International Symposium „The Enviroment and the Industry” SIMI 2018, 20-21 september, 2018, Bucuresti, pag 71-72, 2018, doi: 10.21698/simi.2018.ab27.
8. *ECOLIB, Library of National R&D Institute for Industrial Ecology, first Romanian Repository in the environmental topics area.* Gabriela Geanina Vasile, Ionut Radu Popescu, Catalina Stoica, Olga Tiron, **Lidia Kim**, Stefania Gheorghe. 3<sup>rd</sup> International Colloquium Energy and Environmental Protection, 14-16 november 2018, Ploiesti, Book of Abstract, pag. 52-53, 2018.
9. *The determination of lead, chromium, arsenic and selenium in sediments and soil samples by electrothermal atomic absorption spectrometry using chemical modifiers.* Violeta Dediu, **Lidia Kim**, Cristiana Cosma, Doina Guta. International Symposium "The Environment and the Industry" pp 416-421; doi:10.21698/simi.2016.0058, 2016.
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15. *Distribution and bioavailability of mobile arsenic in sediments from a mining catchment area.* **Lidia Kim**, Gabriela Geanina Vasile, Bogdan Stanescu, Simona Calinescu, Gheorghe Batrinescu. International Symposium "The Environment and the Industry" – SIMI 2015, octombrie 29-30, Bucuresti, Romania.
16. *Elements of urban ecology: water quality assessment of the lakes build up on Colentina River in Bucharest area.* Bogdan Stanescu, Gheorghe Batrinescu, Adriana Cuciureanu, **Lidia Kim**, Elena Stanescu. International Symposium "The Environment and the Industry" – SIMI 2015, octombrie 29-30, Bucuresti, Romania.
17. *Environmental risk assessment a practical approach in case of specific activities to locomotives maintenance and exploitation.* Adriana Cuciureanu, Bogdan Stanescu, **Lidia Kim**, Gheorghe Batrinescu. International Symposium "The Environment and the Industry" – SIMI 2015, octombrie 29-30, Bucuresti, Romania.
18. *Studies on time variation of the concentration of petroleum products from groundwater in an area related to a decommissioned fuel storage (poster).* Simona Calinescu, Ramona Dumitrache, **Lidia Kim**. International Symposium "The Environment and the Industry" – SIMI 2015, octombrie 29-30, Bucuresti, Romania.
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20. *Spatial distribution and temporal variation of concentrations of heavy metals in soil and groundwater in the area with metalliferous minerals processing activities (poster).* Simona Calinescu, **Lidia Kim**, Gheorghe Batrinescu, Bogdan Stanescu, Ramona Dumitrache. International Symposium "The Environment and the Industry" – SIMI 2015, octombrie 29-30, Bucuresti, Romania.
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25. *Geochemical model of the groundwater at county-wide scale in Romania. Case study.* Stanescu Bogdan, Dumitrache Ramona, **Kim Lidia**. International Symposium "The Environment and the Industry" – SIMI 2013, octombrie 29-30, Bucuresti, Romania.

26. *Evaluation of mobile cadmium in sediment samples collected from Certej mining site – effects on aquatic ecosystems.* Gabriela Vasile, **Lidia Kim**, Stefania Gheorghe, Bogdan Stanesco, Simona Calinescu. A XXXII-a Conferinta Nationala de Chimie, octombrie 3-5, 2012, Calimanesti-Caciulata, Romania.
27. *Some analytical applications of modified cyclodextrins (poster)* **Lidia Kim**, Ana Delia Stancu, Cristian Baltariu, Elena Diacu, Hans-Jürgen Buschmann, and Lucia Mutihac. The 2<sup>th</sup> International Symposium on Macrocyclic and Supramolecular Chemistry, June 24-28, 2007, Salice Terme, Italy.
28. *Extraction and transport behaviour of aromatic amino acid by modified cyclodextrins (poster)* **Lidia Kim**, Ana Delia Stancu, Valentina Atena Hotaranu, and Lucia Mutihac. The 3<sup>th</sup> International Symposium on Macrocyclic and Supramolecular Chemistry July 13-18, 2008, Las Vegas, SUA.
29. *Functionalized calixarenes as transporters of biological compounds (poster).* **Lidia Kim**, Petrisor Zamora Iordache, Abdelwaheb Hamdi, Alexandru Biziru, Jacques Vicens, and Lucia Mutihac. The 4<sup>th</sup> Joint International Symposium on Macrocyclic and Supramolecular Chemistry, June 21-25, 2009, Maastricht, The Netherlands.
30. *Aspects of recognition and transport of amino acids and peptides by synthetic receptors.* Lucia Mutihac, **Lidia Kim**, Ana Delia Stancu, Hans-Jürgen Buschmann, Jacques Vicens., 10<sup>th</sup> International Conference on Calixarenes (ICC), July 13-16, 2009, Seoul, South of Korea.
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32. *Functionalized calixarenes as transporters through liquid membrane (poster).* Ana Delia Stancu, **Lidia Kim**, Petrisor Zamora Iordache, and Lucia Mutihac. The 3<sup>th</sup> International Symposium on Macrocyclic and Supramolecular Chemistry July 13-18, 2008, Las Vegas, SUA.
33. *Cyclodextrins involved in separation of amino acids by liquid membrane (poster).* Ana Delia Stancu, Madalin Ceausescu, **Lidia Kim**, Elena Diacu, Lucia Mutihac. “Systems membranes-complex roadmaps toward functional devices and coupled processes”. Membrane Materials and Technologies. EMS - xxvii Summer School, June 14 - 19, 2010, Bucharest, ROMANIA.

### Experience in research projects

No.	Project title	Function	Project name
1	Essential environmental research to support the green, sustainable transition and adaptation to the principles of the circular economy, acronym ENVIRON-RES	Programme manager	NUCLEU PROGRAM 2023-2026
2	Research regarding new methods, techniques and procedures for management and evaluation of waste – acronym DESEVAL	Project manager	NUCLEU PROGRAM (PN 19 04 04 01) 2019 – 2022
3	Innovative research to support the achievement of national targets aligned with EU policy regarding waste management in the context of the concept of circular economy, acronym INODES.	Project manager	NUCLEU PROGRAM (PN 18 05 04 01) 2018
4	Development and implementation of methods for analysis and characterization of industrial wastes, acronym METDES.	Project manager	NUCLEU PROGRAM (PN 16 25 01 07) 2016-2017

5	Research on the assessment of pollution of soil and vegetation with heavy metals in the vicinity of road traffic zones, acronym SOLVEG.	Project manager	NUCLEU PROGRAM (PN 09 13 02 26) 2015
6	Evaluation of metallic elements pollution of aquatic ecosystems and soils contaminated by mining activities.	Project manager	NUCLEU PROGRAM (PN 09 13 02 19) 2014
7	The mobility study of some priority hazardous substances in the sediments of rivers polluted by industrial human activities.	Project manager	NUCLEU PROGRAM (PN 09 13 02 06) 2012-2014
8	SIPOCA 393 - Activity 1. Development and implementation of an evidence-based public policy at the level of MCI, Sub-activity 1.5. - Approval of a public policy in the field of RDI at the level of MCI	Public Policy Expert	Operational Program Administrative Capacity (2014-2020), SIPOCA 393
9	Research on the geochemical assessment of the natural background and the establishment of reference thresholds for the soil and water environment components, in the European context of the implementation of strategic measures for the protection of soils and groundwater, GEFOSA	Team member	NUCLEU PROGRAM (PN 19 04 02 03) 2019 – 2022
10	Research on establishing the quality status of soils in various intensively cultivated agricultural areas in Romania, acronym CLIMASOL	Team member	NUCLEU PROGRAM (PN 18 05 02 03) 2018
11	Promoting, identifying and building partnerships in the field of industrial ecology – PARTENER ECOIND	Member of the implementation team	Operational Program Competitiveness ID/SMIS 2014;
12	Institutional Development Project of INCD ECOIND, acronym ECOEFIND.	Member of the implementation team	PNCDI III, Financing agreement no. 24PFE/31.12.2021 2022-2024
13	Institutional Development Project of INCD ECOIND, acronym ECOSOFTIND.	Member of the implementation team – Key person	PNCDI III, Financing agreement no. 2PFE/16.10.2018 2018-2020
14	Hydrochemical model of urban ecology. Study on the quality of lake waters in Bucharest.	Team member	NUCLEU PROGRAM (PN 09 13 02 18) 2012-2014
15	Research on the peculiarities of groundwater contamination matrices in the area of a tailings mining pond.	Team member	NUCLEU PROGRAM (PN 16 25 02 02) 2016-2017
16	Research on the nature of the ionic species of some hazardous pollutants - metals in surface waters and their transformations.	Team member	NUCLEU PROGRAM (PN 09 13 02 02) 2014
17	Geochemical study of groundwater with free level at regional scale - case study.	Team member	NUCLEU PROGRAM (PN 09 13 02 11) 2014
18	Model of management of environmental issues specific to rural communities, in the context of preserving the natural heritage and increasing the quality of life.	Team member	NUCLEU PROGRAM (PN 09 13 04 15) 2012-2013
19	Hazardous waste determination methodology	Team member	NUCLEU PROGRAM (PN 09 13 01 13) 2014

20	Mobile system of detection, identification and monitoring biological and chemical	Team member	PNII 2007 - 2010
21	Mobile system for rapid monitoring of biological and chemical agents for strategically important objectives	Team member	PNII 2007-2010

### PROJECTS EVALUATION

<b>HORIZON EUROPE PROGRAMME 2021-2027</b>	<b>Call:</b> HORIZON-CL4-2021-TWIN-TRANSITION-01-02, <b>Topic:</b> Zero-defect manufacturing towards zero-waste (Made in Europe Partnership) <b>Type of action:</b> Inovation Action (IA) – 2021
<b>NATIONAL RDI PROGRAMME PNC DI IV</b>	<b>Program 5.7:</b> Partnership for Innovation <b>Subprogram 5.7.1:</b> Partnerships for Competitiveness <b>Call:</b> Demonstration Experimental Project - 2024

### ARTICLE REVIEWS

<b>JOURNALS</b>	Applied Science (ISSN: 2076-3417) Atmosphere (ISSN: 2073-4433) Environmental science and pollution research international (ISSN: 0944-1344) Minerals (ISSN: 2075-163X) Sustainability (ISSN: 2071-1050) Toxics (ISSN: 2305-6304) Water (ISSN: 2073-4441)
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June 2025