




**PERSONAL INFORMATION RADU VIOLETA - MONICA**

 81 Constantin Brancoveanu Bld, Bucharest (Romania)  
 (004) 031.403.34.00  +40722297847  
 radumonica33@yahoo.com; monica.radu33@gmail.com  
<https://www.researchgate.net/profile/Monica-Radu-2>

**Birt date** 24/09/1978

**WORK EXPERIENCE**

(December 2020 – present)	<b>Senior Researcher I<sup>st</sup> degree</b>  <b>Head of Laboratory</b>  Geological Institute of Romania, 1 Caransebes street, District 1, 012271, Bucharest (Romania) ( <a href="http://www.igr.ro">www.igr.ro</a> )
	<ul style="list-style-type: none"> <li>▪ Scientific research activities in the field of geology and environmental protection.</li> <li>▪ Assessment of behavior and ecotoxicology of pollutants in the environment.</li> <li>▪ Development of studies on transport and dispersion of pollutants in the environment.</li> <li>▪ Research activities in the field of environmental protection associated with the geological and mining fields.</li> <li>▪ Risk assessment of pollution and the impact of human activities on the environment.</li> <li>▪ Elaboration and implementation of the quality - environment - occupational health and safety documentation according to EN ISO 9001, EN ISO 14001 and 18001 standards.</li> <li>▪ Elaboration of the documentation necessary for accreditation of the laboratory in accordance with the requirements of EN ISO / IEC 17025 and implementation of the quality system in analysis laboratories.</li> <li>▪ Monitoring of the quality of surface waters, sediments and soils, correlation of biotic and abiotic factors in order to identify the degree of pollution of ecosystems and measures to reduce the impact on the environment.</li> <li>▪ Development of technical offers and drafting of project proposals funded national or international.</li> <li>▪ Validation of analytical methods according to the guides and legislation in force at european level.</li> <li>▪ Harmonizing national legislation with EU law.</li> <li>▪ Publishing and disseminating the results of studies and research.</li> </ul>
(October 2020 – December 2020)	<b>Senior Researcher I<sup>st</sup> degree</b>
(April 2018 – September 2020)	<b>Senior Researcher II<sup>nd</sup> degree</b>
(January 2013 – March 2018)	<b>Senior Researcher III<sup>rd</sup> degree</b>
(October 2006 – December 2012)	<b>Scientific researcher</b>
	National Institute for Research & Development in Environmental Protection, 294 Splaiul Independentei, 6th District, 060031, Bucharest (Romania) ( <a href="http://www.incdpm.ro">www.incdpm.ro</a> )
	<ul style="list-style-type: none"> <li>▪ Scientific research activities in the field of environmental protection.</li> <li>▪ Assessment of behavior and ecotoxicology of pollutants in the environment.</li> <li>▪ Development of studies on transport and dispersion of pollutants in the environment.</li> <li>▪ Research activities in the field of waste management and hazardous substances and the risk to the environment and human health.</li> <li>▪ Risk assessment of pollution and the impact of human activities on the environment.</li> </ul>

	<ul style="list-style-type: none"> <li>▪ Development of environmental audits by integrating environmental information in the economic analysis that can contribute to sustainable economic development and socio-economic impact assessment.</li> <li>▪ Monitoring of the quality of surface waters, sediments and soils, correlation of biotic and abiotic factors in order to identify the degree of pollution of ecosystems and measures to reduce the impact on the environment.</li> <li>▪ Research activity in the field of wastewater treatment.</li> <li>▪ Development services (impact studies, environmental balances, technical-scientific assistance, purification technologies) for different economic sectors.</li> <li>▪ Modern, unconventional technologies for the removal of pollutants that are hardly biodegradable from wastewater.</li> <li>▪ Investigation of sources of pollution at the level of economic units and hydrographic basins.</li> <li>▪ Development of technical offers and drafting of project proposals funded national or international.</li> <li>▪ Performing the physical-chemical analyzes for samples in different matrices: analysis of organic micropollutants by gas-chromatographic technique; metal determination by flame atomic absorption spectrometry, graphite furnace and hydride generator; molecular absorption spectrometric determination of UV-Vis; gravimetric and titrimetric determinations, X-ray fluorescence spectrometry.</li> <li>▪ Development of analytical methods for new products and new substances, according to the legislation in force.</li> <li>▪ Validation of analytical methods according to the guides and legislation in force at european level.</li> <li>▪ Harmonizing national legislation with EU law.</li> <li>▪ Elaboration and implementation of the quality - environment - occupational health and safety documentation according to EN ISO 9001, EN ISO 14001 and 18001 standards.</li> <li>▪ Elaboration of the documentation necessary for accreditation of the laboratory in accordance with the requirements of EN ISO / IEC 17025 and implementation of the quality system in analysis laboratories.</li> <li>▪ Elaboration of documentation on the Managerial Internal Control System (SCIM).</li> </ul> <p>Dissemination activities of research and development results. Publishing and disseminating the results of studies and research.</p>
(September 2019 – present)	<b>Head of Quality Management Compartment</b>
	<ul style="list-style-type: none"> <li>▪ Maintaining and continuously improving the quality system in water analysis laboratories according to EN ISO 17025.</li> <li>▪ Maintaining and continuously improving the integrated management system (quality - environment - occupational health and safety) according to EN ISO 9001, EN ISO 14001 and 45001 standards.</li> <li>▪ Maintaining and continuously improving the Managerial Internal Control System (SCIM).</li> <li>▪ Development of analytical methods for new products, according to the legislation in force.</li> <li>▪ Harmonizing national legislation with EU law.</li> </ul>
(February 2012 – September 2019)	<b>Quality responsibility (Quality Management Compartment)</b>
	<ul style="list-style-type: none"> <li>▪ Elaboration of the documentation necessary for accreditation of the laboratory in accordance with the requirements of EN ISO / IEC 17025; implementation of the quality system in water analysis laboratories according to EN ISO 17025.</li> <li>▪ Elaboration of the quality - environment - occupational health and safety documentation according to EN ISO 9001, EN ISO 14001 and 18001 standards.</li> <li>▪ Elaboration of documentation on the Managerial Internal Control System (SCIM).</li> <li>▪ Development of analytical methods for new products, according to the legislation in force.</li> <li>▪ Harmonizing national legislation with EU law.</li> </ul>
(October 2004 – September 2006)	<b>Research assistant</b>
	The National Institute for Research & Development in Chemistry and Petrochemistry, 202

	Splaiul Independentei, 6th District, 060031, Bucharest (Romania) ( <a href="http://www.icechim.ro">www.icechim.ro</a> )
	<ul style="list-style-type: none"> <li>▪ Physico-chemical wastewater.</li> <li>▪ Participation in national and international projects.</li> <li>▪ Quantitative and semiquantitative analysis in solid and liquid waste samples and the analysis of sulfur in petroleum product by X-ray fluorescence spectrometry.</li> </ul>

## EDUCATION AND TRAINING

### (September 2019 – present) Postdoctoral Researcher in Chemistry

University POLITEHNICA of Bucharest – Faculty of Applied Chemistry and Materials Science

*„Research on the application of an integrated procedures for assessing the impact of emerging pollutants on the aquatic environment and identifying potential risks on human health”*

### (October 2011 – November 2014) PhD in Chemistry

8

University POLITEHNICA of Bucharest – Faculty of Applied Chemistry and Materials Science

*„Contributions regarding the analytical modeling of integrated hydrochemical monitoring data for surface waters”*

### (October 2004 – June 2006) Master’s degree - „Optimization of Chemical Control and Quality Assurance”

7

University of Bucharest – Faculty of Chemistry Bucharest (Romania)

Specialization in Analytical chemistry - „Optimization of Chemical Control and Quality Assurance”

### (October 2000 - June 2004) Bachelor’s degree – Specialization in Analytical Chemistry

6

University of Bucharest – Faculty of Chemistry Bucharest (Romania)

▪ Faculty of Chemistry – Physical Chemistry Department

## Personal skills and competences

First language(s) Romanian

Other language(s)

European level (\*)

English

French

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	B1	B1	B1	B1
A2	A2	A2	A2	A2

(\*) Common European Framework of Reference for Languages

Social skills and competences

▪ Dynamic, determined, adaptable, with teamwork, efficient, organized

Technical skills and competences

▪ A good knowledge of quality management ( responsibility for quality control lab at workplace)

Computer skills and competences

▪ Windows XP, Microsoft Word, Excel, Power Point, PhotoEditor; Origin

Driving licence

Type B, since 2002

## Additional information

## Specializations

- 9 – 13 April 2012 – Course: „Integrated Management Systems Quality – Environment – Health and Safety Operational, SRAC;
- 6 – 7 November 2008 – Course: „Methods validation”, code APE 3 – National Accreditation Body - RENAR;
- 7 – 9 November 2007 – Course: „SR EN ISO 19011:2003. Guidelines for quality and/or environmental management systems auditing”, cod FPS 2/M2 – National Accreditation Body - RENAR;
- 24 – 28 April 2007 – Course: „Estimation of measurement uncertainty”, cod APE 1 – National Accreditation Body RENAR;
- 18 – 20 April 2007 – Course: „Requirements of SR EN ISO/CEI 17025 : 2005” - National Accreditation Body - RENAR;

## Other skills

- Guest Editor for Special Issue on Advances in Analytical Techniques for Contaminated Sediment Assessment and Management - Journal of Analytical Methods in Chemistry
- Associate Editor for Insights in Organic & Inorganic Chemistry (IOIC)

## ANNEXES

- Annex I – List of publications
- Annex II – List of research projects

Date: 04.2021

## LIST OF PUBLICATIONS (SCIENTIFIC PAPERS AND COMMUNICATED)

### Scientific papers published in ISI indexed journals

1. **V.-M. Radu**, P. Ionescu, Gy. Deak, E. Diacu, S. Zamfir, I.E. Ciobotaru, E. Marcu, I. Marcus, *Statistical Distribution and Spatio-Temporal Variation of Nutrients in Lower Danube River Waters between km 375 - km 175 in Relation to Hydrological Regime*, Rev. Chim. (Bucharest), 2020, vol. 71, no. 6, pp., (IF = 1.605) (in press)
2. **V.-M. Radu**, P. Ionescu, Gy. Deak, E. Diacu, A.A. Ivanov, S. Zamfir, I. Marcus, *Overall assessment of surface water quality in the Lower Danube River*, Environmental Monitoring and Assessment, 2020 (IF = 1.959) (in press)
3. **V.-M. Radu**, P. Ionescu, E. Diacu, Gy. Deak, A.A. Ivanov, *Assessing and Spatio-Temporal Variations of Potentially Toxic Elements in the Sediments from Lower Danube River in 2011-2017 period*, Rev. Chim. (Bucharest), 2020, vol. 71, no. 4, pp., (IF = 1.605) (in press)
4. P. Ionescu, **V.-M. Radu**, Gy. Deák, E. Diacu, A.A. Ivanov, I.E. Ciobotaru, E. Marcu, *Assessment of Potentially Toxic Elements in Muscle Tissues of Different Fish Species from Some Rivers in Romania*, Rev. Chim. (Bucharest), 2020, vol. 71, no. 3, pp., (IF = 1.605) (in press)
5. **V.-M. Radu**, A.A. Ivanov, P. Ionescu, E. Diacu, A.-M. Anghel, *Assessment of Freshwater Resources Quality in Some Bucharest and Surrounding Areas Part III. Case Study: Trophic Status Assessment of Mogosoia, Herastrau and Pantelimon Lakes*, Rev. Chim. (Bucharest), 2019, vol. 70, no. 11, pp. 3778-3782 (IF = 1.605)
6. P. Ionescu, A.A. Ivanov, **V.-M. Radu**, Gy. Deák, E. Diacu, E. Marcu, A.-M. Anghel, *Assessment of Freshwater Resources Quality in Some Bucharest and Surrounding Areas Part II. Case Study: Water Quality of Arges and Dambovita Rivers*, Rev. Chim. (Bucharest), 2019, vol. 70, no. 10, pp. 3638-3643 (IF = 1.605)
7. A. M. Anghel, Gy. Deak, P. Ionescu, C. Cimpoeu, I. Ciobotaru, E. Marcu, B. Uritescu, L. Luminariu, B. Petculescu, **V.-M. Radu**, G. Badea, *Danube River Basin Waters on Romanian Territory: Chemical Status Assessment Based on Priority Substances Data Analysis*, Rev. Chim. (Bucharest), 2019, vol. 70, no. 9, pp. 3292-3298 (IF = 1.605)
8. P. Ionescu, **V.-M. Radu**, Gy. Deák, E. Diacu, E. Marcu, I.-E. Ciobotaru, *Assessment of Freshwater Resources Quality in Some Bucharest and Surrounding Areas Part I. Case Study: Water Quality in Herastrau, Pantelimon and Mogosoia Lakes*, Rev. Chim. (Bucharest), 2019, vol. 70, no. 8, pp. 2889-2896 (IF = 1.605)
9. **V.-M. Radu**, E. Diacu, P. Ionescu, Gy. Deák, A. A. Ivanov, G. Ghita, I. E. Ciobotaru, E. Marcu, *Multivariate statistical characterisation of soil quality in the Lower Danube River riparian areas*, Rev. Chim. (Bucharest), 2019, vol. 70, no. 7, pp. 2392-2397 (IF = 1.605)
10. **V.-M. Radu**, P. Ionescu, E. Diacu, A. A. Ivanov, *Removal of heavy metals from aquatic environments using water hyacinth and water lettuce*, Rev. Chim. (Bucharest), 2017, vol. 68, no. 12, pp. 2765-2767 (IF = 1.412)
11. **V.-M. Radu**, E. Diacu, M.A. Moncea, F.D. Dumitru, A.M. Panait, P. Ionescu, *Numerical Modelling of Pollutant Dispersion in The Lower Danube River*, Rev. Chim. (Bucharest), 2017, vol. 68, no. 11, pp. 2477-2481 (IF = 1.412)
12. **V.-M. Radu**, E. Diacu, P. Ionescu, A. A. Ivanov, *Application of multivariate statistical techniques to assess water quality of*

- the lower Danube*, U.P.B. Sci. Bull. Seria B, 2017, vol. 79, no. 3, pp. 3-12, ISSN 1454-2331
13. C.Tociu, C. Maria, E. Marcu, P. Ionescu, **V. M. Radu**, *The effect of wastewater from paper mills on the operation of primary stages in the municipal wastewater treatment plant*, Bionterface Research in Applied Chemistry, 2017, vol. 7, no. 3, pp. 2063-2066, ISSN 2069-5837
  14. P. Ionescu, Gy. Deák, E. Diacu, **V.-M. Radu**, *Assessment of heavy metal levels in water, sediment and fish from Plumbuita Lake, Romania*, Rev. Chim. (Bucharest), 2016, vol. 67, no. 11, pp. 2148-2150 (**IF = 1.232**)
  15. **V.-M. Radu**, A. A. Ivanov, P. Ionescu, Gy. Deák, M. Tudor, *Development of a multiparametric quality index for water quality monitoring*, Environmental Engineering and Management Journal, 2016, vol. 15, no. 5, pp. 1069-1074 (**IF= 1.008**)
  16. **V.-M. Radu**, A. A. Ivanov, Gy. Deák, E. Diacu, *Assessment of Heavy Metals Content in Water and Sediments from the Lower Danube River Using EcoIndex*, Rev. Chim. (Bucharest), 2016, vol. 67, no. 4, pp. 649-653 (**IF= 1.232**)
  17. P. Ionescu, E. Diacu, **V.-M. Radu**, Gy. Deák, M. Tudor, *Detection of estrogens from aquatic environments by gas chromatographic method*, Rev. Chim. (Bucharest), 2016, vol. 67, no. 10, pp. 1895-1898 (**IF= 1.232**)
  18. **V.-M. Radu**, A. A. Ivanov, P. Ionescu, Gy. Deák, E. Diacu, *Overall assessment of water quality on Lower Danube River using multi-parametric quality index*, Rev. Chim. (Bucharest), 2016, vol. 67, no. 3, pp. 391-395 (**IF= 1.232**)
  19. **V.-M. Radu**, P. Ionescu, Gy. Deák, *Decreasing nutrients concentration from aquatic environment using aquatic plants*, Journal of Environmental Protection and Ecology, 2015, vol. 16, no. 2, pp. 610-619 (**IF= 0.734**)
  20. P. Ionescu, **V.-M. Radu**, Gy. Deák, A. A. Ivanov, E. Diacu, *Lower Danube water quality assessment using heavy metals indexes*, Rev. Chim. (Bucharest), 2015, vol. 66, no. 8, pp. 1088-1092 (**IF= 0.956**)
  21. P. Ionescu, V.-M. Radu, E. Diacu, *Sediments as indicators of heavy metal contamination in the Lower Danube River*, Rev. Chim. (Bucharest), 2015, vol. 66, no.11, pp. 1725-1727 (**IF= 0.956**)
  22. **V.-M. Radu**, E. Diacu, P. Ionescu, Gy. Deák, *Spatio-Temporal Characterization of Nutrient Pollution in Lower Danube Area*, Rev. Chim. (Bucharest), 2015, vol. 66, no. 5, pp. 601-606 (**IF= 0.956**)
  23. M. Badea, A. M. Anghel, A. Ivanov., **V.-M. Radu**, *Influence of tetracycline on micronutrients distribution in bean plants*, U.P.B. Sci. Bull. Seria B, 2015, vol. 77, no. 2, pp. 141-148, ISSN 1454-2331
  24. **V.-M. Radu**, P. Ionescu, Gy. Deák, A. A. Ivanov, E. Diacu, *Multivariate Statistical Analysis for Quality Assessment of Aquatic Ecosystem on the Lower Danube*, Journal of Environmental Protection and Ecology, 2014, vol.15, no. 2, pp. 412-424 (**IF= 0.338**)
  25. P. Ionescu, **V.-M. Radu**, Deák Gy., E. Diacu, *Distribution, Partition and Fluxes of Trace Heavy Metals in the Lower Danube River*, Rev. Chim. (Bucharest), 2014, vol. 65, no. 9, pp. 1092-1095 (**IF= 0.810**)
  26. **V.-M. Radu**, E. Diacu, A. Ivanov, Gy. Deak, *Gas-Chromatographic Technique for the Analysis of Flocculant PRAESTOL Content in Surface Waters*, Rev. Chim. (Bucharest), 2014, vol. 65, no. 7, pp. 757-761 (**IF= 0.810**)
  27. M.-N. Badea, E. Diacu, **V.-M. Radu**, *Influence of Antibiotics on Copper Uptake by Plants*, Rev. Chim. (Bucharest), 2013, vol 64, no.7, pp. 684-687 (**IF= 0.677**)
  28. **V.-M. Radu**, E. Diacu, A. Varduca, *Development of Procedures for Hydrochemical Monitoring Data Integration for the Danube River related to the Hydrological Conditions*, Rev. Chim. (Bucharest), 2013, vol 64, no.3, pp. 242-245 (**IF= 0.677**)

### Scientific papers published in ISI Proceedings

1. **V. G. Poteraş**, Gy. Deák, I.-F. Burlacu, S.N. Raischi, **V.-M. Radu**, *Use of the bio-engineering technologies in the construction and upgrade of complex installations for obtaining energy from three renewable sources. Complex installations for flowing waters*, 2021, E3S Web of Conferences 239, 00009
2. **V.-M. Radu**, M. Chiriac, Gy. Deak, M. Pipirigeanu, T.N. Tengku Izhar, *Strategic Actions for Packaging Waste Management and Reduction*, 2020, IOP Conf. Series: Earth and Environmental Science 616, 012019
3. **V.-M. Radu**, R. Szep, P. Ionescu, G. S. Tanase, S. Raischi, *Evaluation of priority hazardous substances present in the sediments of the Lower Danube section using multivariate statistical analysis*, SGEM, 2015, Conference Proceedings - Hydrology and Water Resources, vol. 1, pp. 277-283, Proceedings paper, , ISSN: 1314-2704, ISBN:978-619-7105-36-0, Accession Number: WOS: 000371663400036, 15th International Multidisciplinary Scientific GeoConference (SGEM), June 18-24, 2015 - Albena, Bulgaria, [www.sgem.org](http://www.sgem.org)
4. P. Ionescu, **V. M. Radu**, R. Szep, M. Raischi, M. Boboc, *Characterization of metal flow dynamics along the lower section of Danube River using correlation algorithms*, SGEM, 2015, Water resources, forest, marine and ocean ecosystems, vol. 1, pp. 129-135, Proceedings paper, , ISSN: 1314-2704, ISBN:978-619-7105-36-0, Accession Number: WOS: 000371663400036, 15th International Multidisciplinary Scientific GeoConference (SGEM), June 18-24, 2015 - Albena, Bulgaria, [www.sgem.org](http://www.sgem.org)

### Scientific papers published in journals indexed BDI

1. **V.- M. Radu**, P. Ionescu, A.A. Ivanov, Gy. Deák, E. Marcu, I.E. Ciobotaru, E. Diacu, M. Pipirigeanu, „Assessment of contamination with hazardous substances in surface sediments in the Lower Danube River”, *Technium*, 2019, vol. 1, pp. 37-44, ISSN 2668-778X
2. P. Ionescu, **V.-M Radu**, Gy. Deák, I.E. Ciobotaru, E. Marcu, E. Diacu, M. Pipirigeanu, „Bioaccumulation of potentially toxic elements in fish species from aquatic environments located in crowded areas of southern Romania”, *Technium*, 2019, vol. 1, pp. 53-58, ISSN 2668-778X
3. **V.- M. Radu**, M. Pipirigeanu, Gy. Deak, P. Ionescu, „Statistical evaluation of the energy, economic and social potential from renewable sources in Romania”, *Eurasian Journal of Economics and Finance*, 2019, vol. 7, no. 3, pp. 44-51. DOI: 10.15604/ejef.2019.07.03.005
4. P. Ionescu, A.A. Ivanov, E. Diacu, Gy. Deák, **V.-M Radu**, C. Tociu, „Application of correlation algorithms on monitoring data for quality assessment of the aquatic ecosystems”, *Bulletin of Romanian Chemical Engineering Society*, vol. 5, no. 2, 2018, pp. 47-53, ISSN 2360-4697
5. **V.-M. Radu**, A. A. Ivanov, P. Ionescu, E. Diacu, I. Popescu, C. Tociu, „Multivariate statistical analysis of metals in Lower Danube sediments”, *Bulletin of Romanian Chemical Engineering Society*, 2017, vol. 4, nr. 1, pp.49-57, ISSN 2360-4697.
6. **V.-M. Radu**, E. Diacu, P. Ionescu, A. A. Ivanov, „Application of multivariate statistical techniques to assess water quality of the Lower Danube”, *U.P.B. Sci. Bull. Seria B*, 2017, vol.79, no.3, pp. 3-12, ISSN 1454-233
7. **V.-M. Radu**, M. A. Moncea, F. D. Dumitru, P. Ionescu, A.-M. Panait, „Simulation of an accidental pollution in a hydrosystem - Lower Danube case study”- *Journal of Environmental Research and Protection*, 2017, vol. 14, no.1, pp.10-18, ISSN 1584-7071

8. P. Ionescu, E. Diacu, E. Marcu, **V.-M. Radu**, C.Tociu, A. Moncea, "Potential risk assessment of heavy metals in sediments from urban lakes, Romania", Bulletin of Romanian Chemical Engineering Society, 2017, vol. 4, nr. 1, pp. 40-48, ISSN 2360-4697
9. P. Ionescu, E. Marcu, **V.-M. Radu**, I. E. Ciobotaru, C. Tociu, „Evaluation of heavy metal contamination through indexes analysis. Case studies Plumbuita and Circului Lakes, Bucharest (Romania)” Journal of Environmental Research and Protection, 2017, vol. 14, no. 1, pp. 19-25, ISSN 1584-7071.
10. C. Tociu., C. Maria, E. Marcu, P. Ionescu, **M. V. Radu**, „The effect of wastewater from paper mills on the operation of primary stages in the municipal wastewater treatment plant”, Bionterface Research in Applied Chemistry, 2017 vol. 7, no. 3, pp. 2063-2066, ISSN 2069-5837.
11. P. Ionescu, **V.-M. Radu**, E. Marcu, I. E. Ciobotaru, A. A. Ivanov, „Assessment of transfer phenomena for heavy metals in a freshwater ecosystem: a field study”, 2016, Studia Ambientum, no.1-2, pp. 45-56, ISSN 1843-3855
12. P. Ionescu, **V.-M. Radu**, Gy. Deák, „Spatial and seasonal variations of heavy metals in water and sediment samples collected from the Lower Danube River”, 2016, vol. 21, Scientific Annals of the Danube Delta Institute, pp. 41-48, ISSN 2247-9902.
13. **V.-M. Radu**, P. Ionescu, „Aquatic plants as a remediation tool for polluted water”, Journal of Environmental Research and Protection, 2016, vol. 13, no. 3, pp. 14-18, ISSN 1584-7071.
14. P. Ionescu, **V.-M. Radu**, E. Diacu, E. Marcu, „Assessment of Water Quality in the Lakes Along Colentina River”, Advanced Engineering Forum, 2015, vol. 13, pp. 194-199, ISSN 2234-9898.
15. P. Ionescu, E. Diacu, **V.-M. Radu**, „Evaluation of measurement uncertainty to phosphorus determination by molecular spectrometry in water samples” U.P.B. Sci. Bull. Seria B, 2014, vol. 76, no. 2, pp. 23-32, ISSN 1454-2331.
16. **V.-M. Radu**, E. Diacu, P. Ionescu, „Characterization of the eutrophication potential for the lower part of the Danube River”, U.P.B. Sci. Series B, 2014, vol. 76, no. 4, pp. 137-146, ISSN 1454-2331.
17. **V.-M. Radu**, P. Ionescu, Gy. Deák, E. Diacu, „Influence of agriculture on water quality of lower Danube River”, Proceedings of the International Conference "AGRI-Food Sciences, Processes and Technologies" - AGRI-Food 2014: Celebrating the 45th Anniversary of Lucia Blaga University of Sibiu: Conference Sections, 1-6: Agriculture and Environmental Protection,"Lucian Blaga" University Press, pp. 133-138, ISSN 1843-0694.
18. P. Ionescu, **V.-M. Radu**, E. Diacu, „Endocrine disruptors and their effects on environment and life quality”, Proceedings of the International Conference "AGRI-Food Sciences, Processes and Technologies" - AGRI-Food 2014: Celebrating the 45th Anniversary of Lucia Blaga University of Sibiu: Conference Sections, 1-6: Agriculture and Environmental Protection, "Lucian Blaga" University Press, pp.76-82, ISSN 1843-0694.
19. **V.-M. Radu**, P. Ionescu, „Biotehnologii integrate cu procese fizico-chimice pentru epurarea apelor uzate orașenești și pentru tratarea nămolurilor reziduale în vederea refolosirii”, Journal of Environmental Research and Protection, 2011, vol. 28, pp. 149-154, ISSN 1584-7071.
20. I. Enache, **M. Radu**, E. Diacu, Evaluation of longitudinal and temporal differentiation in heavy metals concentrations as priority hazardous substances in the water of Moara Domneasca Lake, International Symposium The Environment and Industry, 2011, vol. 2, pp. 310-314, ISSN 1843-5831, ISSN (on-line) 2457-8371, Indexed in Crossref, Scilit, Mendeley, CiteUlike



**Scientific papers published in volumes of international scientific events**

1. **V.-M. Radu**, I. Popescu Boaja, G. Dinca, R. Szabo, A.M. Anghel "The potential recovery of critical elements from secondary raw materials existent in Romania", EMCEI 2021 SCOPUS Proceedings (on-line presentation).
2. I. Popescu Boaja, **V.-M. Radu**, G. Dinca, R. Szabo, A.M. Anghel „Spatial distribution and mobility of potentially toxic elements in the soils of Romania”, EMCEI 2021 SCOPUS Proceedings (on-line presentation).
3. **V.- M. Radu**, P. Ionescu, A. A .Ivanov, Gy. Deak, E. Marcu, I.E. Ciobotaru, E. Diacu, M. Pipirigeanu, „Assessment of contamination with hazardous substances in surface sediments in the Lower Danube River”, ID 2018, TECHNIUM International Conference 2019, Constanta, Romania, ISBN 978-973-0-30915-7 (on-line presentation).
4. P. Ionescu, V.- M. Radu, Gy. Deak, E. Marcu, I.E. Ciobotaru, E. Diacu, M. Pipirigeanu, „*Bioaccumulation of potentially toxic elements in fish species from aquatic environments located in crowded areas of southern Romania*”, ID 2024, TECHNIUM International Conference 2019, Constanta, Romania, ISBN 978-973-0-30915-7 (on-line presentation).
5. **V.- M. Radu**, M. Pipirigeanu, Gy. Deak, P. Ionescu, „Statistical evaluation of the energy, economic and social potential from renewable sources in Romania”, Euro-Asia Forum in Politics, Economics and Business, July 11-12 2019, Istanbul, Turkey (oral presentation).
6. I.-E. Ciobotaru, E. Marcu, Gy. Deák., A.A. Ivanov, C. Maria, C. Tociu, P., Ionescu, I.F. Burlacu, Șt.I. Zamfir., **V.-M Radu**, C., Cimpoeru, N.V. Vlăduț, „Assessment of the status of the Arges River near Bucharest-Ilfov”, International Symposium ISB-INMA TEH, Agricultural and mechanical engineering, Bucharest 01-03 November 2018, Online: ISSN 2537-3773, ISSN-L 2344-4118.
7. **V.-M. Radu**, P. Ionescu, Deák György, A.A. Ivanov, M. Chiriac, E. Marcu, I. Ciobotaru, A.-M. Anghel, C. Cimpoeru, A. Trentea, I. Marcus, *Study on the eutrophic status of selected lakes riparian to the Colentina river, Bucharest, Romania*, 12th International Conference Environmental Legislation, Safety Engineering and Disaster Management - ELSEDIMA, 17-19 May 2018, Cluj-Napoca, Romania, p. 145, ISBN 978-606-8887-27-2 (poster presentation).
8. P. Ionescu, **V.-M. Radu**, Deák György, M. Chiriac, E. Marcu, I. Ciobotaru, A.A. Ivanov, A.-M. Anghel, B. Uritescu, C. Cimpoeru, A. Trentea, I. Marcus, *Assessment of water quality parameters in lakes from Bucharest-Ilfov area, Romania*, 12th International Conference Environmental Legislation, Safety Engineering and Disaster Management - ELSEDIMA, 17-19 May 2018, Cluj-Napoca, Romania, p. 82, ISBN 978-606-8887-27-2 (poster presentation).
9. A.-M. Anghel, Deák György, P. Ionescu, C. Cimpoeru, I. Ciobotaru, E. Marcu, B. Uritescu, L. Luminariu, B. Petculescu, **V.-M. Radu**, G. Badea, *Chemical status of the Danube River Basin waters on Romanian territory by assessing the priority substances - heavy metals*, 12th International Conference Environmental Legislation, Safety Engineering and Disaster Management - ELSEDIMA, 17-19 May 2018, Cluj-Napoca, Romania, p. 8, ISBN 978-606-8887-27-2 (poster presentation).
10. I. (Popescu) Boajă, Gy. Deák, P. Ionescu, **V.-M. Radu**, M. Boboc, E. Holban, A. Dăescu, D. Ștefan, *Fate and transport of nitrogen species in unsaturated soil*, 2nd International Urban, Environment and Health Congress, Cappadocia, Turkey April 16-20, 2018 (oral presentation).
11. M. Chiriac, I. Marcus, A-M Trentea, Gy. Deák, P. Ionescu, **V.-M. Radu**, *Technologies for the recovery of urban wastewater treatment sludge and municipal waste*, European Exhibition of Creativity and Innovation EUROINVENT 2018, 16-18 May 2018 (poster presentation).
12. A. Trentea, I. Mărcuș, F.D. Dumitru, A. Baraitaru, M. Chiriac, P. Ionescu, **V.M. Radu**, I. Mițiu, M.N. Radu, C. Lungu, M.A. Moncea, M. Olteanu, I. Neacsu, G. Poteras, *Study regarding the techniques and methods used for recycling and*

- recovery of glass waste with special properties existing at national and international level*, European Exhibition of Creativity and Innovation EUROINVENT 2018, 16-18 May 2018 (poster presentation).
13. Deák György, F.D. Dumitru, M.A. Moncea, M. Matei, **V.M. Radu**, A.-M. Anghel, A. Baraitaru, B. Uritescu, M. Boboc, *National register regarding secondary reserves of raw materials with economic importance resulted from mining residues*, European Exhibition of Creativity and Innovation EUROINVENT 2018, 16-18 May 2018 (poster presentation).
14. P. Ionescu, **V.-M. Radu**, E. Marcu, I. E. Ciobotaru, A. A. Ivanov, *Assessment of transfer phenomena for heavy metals in a freshwater ecosystem: a field study*, 11th International Conference Environmental Legislation, Safety Engineering and Disaster Management-ELSEDIMA, May 26-28, 2016, Cluj-Napoca, Romania, p. 92, ISBN 978-606-93873-1-3 (poster presentation).
15. P. Ionescu, **V.-M. Radu**, I. E. Ciobotaru, I.-F. Burlacu, E. Marcu, *Assessment of heavy metal levels in water, sediment and fish from Plumbuita Lake, Romania*, 1st International Conference on Ecology and Protection of Marine and Freshwater Environments, EcoProWater, October 1-3, 2015, Viterbo, Italy, p. 58, ISBN 9788890755361 (poster presentation).
16. P. Ionescu, E. Diacu, **V.-M. Radu**, *Optimization of the water sample preparation procedure for the determination of estrogens by gas chromatographic method*, 19th Romanian International Conference on Chemistry and Chemical Engineering, September 2-5, 2015, Sibiu, Romania, ISSN 2344-1895 (poster presentation).
17. **V.-M. Radu**, P. Ionescu, E. Diacu, *Evolution of the pollutant concentrations in the Lower Danube in the period 2013-2014*, 19th Romanian International Conference on Chemistry and Chemical Engineering, September 2-5, 2015, Sibiu, Romania, ISSN 2344-1895 (poster presentation).
18. P. Ionescu, **V.-M. Radu**, Gy. Deák, E. Diacu, *Sediments as indicators of heavy metal contamination in the lower Danube River*, International U.A.B.–B.EN.A. Conference Environmental Engineering and Sustainable Development, May 28-30, 2015, Alba Iulia, Romania, p. 244, ISSN 2457-2829 (poster presentation).
19. **V.-M. Radu**, A. A. Ivanov, Gy. Deák, E. Diacu, P. Ionescu, *Assessment of heavy metals content in water and sediments from the lower Danube River using Ecoindex*, International U.A.B.–B.EN.A. Conference Environmental Engineering and Sustainable Development, May 28-30, 2015, Alba Iulia, Romania, p. 157, ISSN 2457-2829 (poster presentation).
20. **V.-M. Radu**, P. Ionescu, *The heavy metals content in the sediment from the Danube river*, A XXXIII –A Conferință Națională de Chimie, Călimănești-Căciulata, 01 – 03 octombrie 2014, p. 9 (poster presentation).
21. P. Ionescu, **V.-M. Radu**, *Assessment of nutrient concentrations in different lakes from Bucharest area*, A XXXIII – A Conferință Națională de Chimie, Călimănești-Căciulata, 01 – 03 octombrie 2014, p. 12 (poster presentation).
22. **V.-M. Radu**, A.A.Ivanov, P. Ionescu, Deák Gy., E. Diacu, *A multiparametric quality index for the ongoing water quality monitoring projects on the lower Danube*, International Conference „Environmental Legislation, Safety Engineering and Disaster Management” ELSEDIMA 10th edition, 18 – 19 Septembrie 2014, Cluj-Napoca, Romania, p. 149, ISBN 978-973-606-526-183-9 (poster presentation).
23. P. Ionescu, E. Diacu, **V.-M. Radu**, Deák Gy., A. A. Ivanov, E. Marcu, *Study on the detection of estrogens from aquatic environments by GC-ECD method*, International Conference „Environmental Legislation, Safety Engineering and Disaster Management” ELSEDIMA 10th edition, 18 – 19 Septembrie 2014, Cluj-Napoca, Romania, p. 79, ISBN 978-973-606-526-183-9 (poster presentation).
24. **V.-M. Radu**, A.Antohe, *Solutions to improve the quality of environment and life by implementing environmental management system*, 14th International Conference on Quality and Dependability, Sinaia, Romania, 17-19 Septembrie 2014, pp. 325-328 (oral presentation).

25. P. Ionescu, **V.-M. Radu**, Deák Gy., *Spatial and seasonal variations of heavy metals in water and sediment samples collected from the Lower Danube River*, International Conference BSB Net-Eco "Environmental aspects and available scientific tools for Black Sea Basin protection" 'Deltas and Wetlands', 15-17 Septembrie 2014, Tulcea, Romania, p. 27, ISSN 2344-3766 (oral presentation).
26. **V.-M. Radu**, P. Ionescu, Deák Gy., *Integration of hydro-chemical indicators for characterize the aquatic ecosystem: case study - the lower section of the Danube*, International Conference BSB Net-Eco "Environmental aspects and available scientific tools for Black Sea Basin protection" 'Deltas and Wetlands', 15-17 Septembrie 2014, Tulcea, Romania, p. 43, ISSN 2344-3766 (poster presentation).
27. **V.-M. Radu**, A. Ivanov, Deák Gy., E. Diacu, *Assessment of heavy metals content in water and sediments from the lower Danube River using EcolIndex*, 3<sup>rd</sup> International Conference ADEM 2014, 11-12 Septembrie 2014, Drobeta Turnu-Severin, Romania, pp. 107-108, ISBN 978-606-8232-49-2 (poster presentation).
28. P. Ionescu, **V.-M. Radu**, E. Diacu, E. Marcu, *Assessment of water quality in the lakes along Colentina River*, 3<sup>rd</sup> International ADEM 2014, 11-12 Septembrie 2014, Drobeta Turnu-Severin, Romania, pp. 103-104, ISBN 978-606-8232-49-2 (poster presentation).
29. **V.-M. Radu**, P. Ionescu, Deák Gy., E. Diacu, *Influence of agriculture on water quality of lower Danube River*, International Conference AGRI-FOOD SCIENCE, PROCESSES AND TEHNOLOGIES, 14-15 Mai, 2014, Sibiu, Romania, ISSN 1843-0694 (poster presentation).
30. P. Ionescu, **V.-M. Radu**, E. Diacu, *Endocrine disruptors and their effects on environment and life quality*, Conference AGRI-FOOD SCIENCE, PROCESSES AND TEHNOLOGIES, 14-15 Mai, 2014, Sibiu, Romania, ISSN 1843-0694 (poster presentation).
31. **V.-M. Radu**, P. Ionescu, Deák Gy., *Decreasing nutrients concentration from aquatic environment using aquatic plants*, International Conference Green Infrastructure and Sustainable Societies/Cities, GreInSus, 8-10 Mai 2014, Izmir, Turcia, p. 197, ISBN 978-605-85204-0-0 (1st prize on section posters).
32. P. Ionescu, **V.-M. Radu**, Deák Gy., E. Diacu, *The evaluation of heavy metal pollution index (HPI) and metal index (MI) for lower Danube waters*, International Conference "New tools for sustainable management of aquatic living resources", AQUALIRES, 17-18 January 2014, Bucharest, Romania, p. 40, ISBN: 978-973-741-357-4 (oral presentation).
33. **V.-M. Radu**, P. Ionescu, Deák Gy., A. Ivanov, E. Diacu, *Multivariate statistical analysis for quality assesment of aquatic ecosystem on lower Danube*, International Conference "New tools for sustainable management of aquatic living resources, AQUALIRES, 17-18 January 2014, Bucharest, Romania, p. 35, ISBN: 978-973-741-357-4 (oral presentation).
34. I. Popescu, G. Dorobantu, Deák Gy., **V.-M. Radu**, P. Ionescu, *Spatio-temporal trends of potentially toxic metals in surface sediments of the lower Danube*, International Conference "New tools for sustainable management of aquatic living resources", AQUALIRES, 17-18 January 2014, Bucharest, Romania, p. 81, ISBN: 978-973-741-357-4 (poster presentation).
35. E. Marcu, **V.-M. Radu**, P. Ionescu, A. Ivanov, Gy. Deák, *The spatio-temporal evolution of the phenol and phosphorus equilibrium on the lower sector of the Danube river*, International Conference "New tools for sustainable management of aquatic living resources, AQUALIRES, 17-18 January 2014, Bucharest, Romania, p. 75, ISBN: 978-973-741-357-4 (poster presentation).
36. **V.-M. Radu**, C. Ene, I. Popescu, L. Bodea, *Influence of social and environmental issues on health and quality of life*, International Conference "New tools for sustainable management of aquatic living resources, AQUALIRES, 17-18 January 2014, Bucharest, Romania, p. 125, ISBN: 978-973-741-357-4 (Premiul III secțiunea postere).

37. **V.-M. Radu**, P. Ionescu, E. Diacu, *Assessment procedures of pollutants from aquatic environments to quantify the risk of accidental pollution*, Simpozion Național cu Participare Internațională Environment & Progress, Ediția a IX-a, 25 octombrie 2013, Cluj-Napoca, p.74 (poster presentation).
38. P. Ionescu, **V.-M. Radu**, E. Diacu, *Evaluation of the distribution and transport of lead at ecosystems level specific to flowing waters*, Simpozion Național cu Participare Internațională Environment & Progress, Ediția a IX-a, 25 octombrie 2013, Cluj-Napoca, p.49 (poster presentation).
39. **V.-M. Radu**, P. Ionescu, Deak Gy., I. Popescu, A. Varduca, E. Diacu, *Parametrical intercorrelations algorithms between water quality indicators in the Danube river*, International Conference Marine Research HORIZON 2020 – MARES 2020, 17-20 September 2013, Varna, Bulgaria, p. 203, ISBN 978-954-92787-8-1 (poster presentation).
40. P. Ionescu, **V.-M. Radu**, Deák Gy., A. Varduca, I. Popescu, E. Diacu, *Lead distribution at aqueous - solid phase interfaces in aquatic environment*, International Conference Marine Research HORIZON 2020 – MARES 2020, 17-20 September 2013, Varna, Bulgaria, p. 202, ISBN 978-954-92787-8-1 (poster presentation).
41. **V.-M. Radu**, P. Ionescu, Deák Gy., E. Diacu, *Characterization of Spatio-Temporal Evolution of Nutrient Pollution in Danube River on the Calarasi-Braila Section*, 18th Romanian International Conference on Chemistry and Chemical Engineering – RICCE18, September 4-7, 2013, Sinaia, Romania, S5-13, ISSN 2344-1895, ISSN-L 2247-5389 (oral presentation).
42. P. Ionescu, **V.-M. Radu**, Deák Gy., E. Diacu, *The GC-ECD method development for analysis of polychlorinated biphenyl compounds for environmental quality monitoring*, 18th Romanian International Conference on Chemistry and Chemical Engineering – RICCE18, September 4-7, 2013, Sinaia, Romania, S5-14, ISSN 2344-1895, ISSN-L 2247-5389 (oral presentation).
43. **V.-M. Radu**, E. Diacu, A. A. Ivanov, Gy. Deák, *Gas-chromatographic technique for the analysis of flocculant Praestol in surface waters*, Environmental Legislation, Safety Engineering and Disaster Management – ELSEDDIMA, 9th Edition, 25-27 October 2012, Cluj-Napoca, p. 91 (poster presentation).
44. P. Ionescu, **V.-M. Radu**, *Estimation of measurement uncertainty in determining the concentration of total phosphorus in waste water samples*, Environmental Legislation, Safety Engineering and Disaster Management – ELSEDDIMA, 9th Edition, 25-27 October 2012, Cluj-Napoca, p. 51 (poster presentation).
45. **V.-M. Radu**, P. Ionescu, *Variațiile spațio-temporale ale poluării cu azot și fosfor la nivelul fluviului Dunărea*, A XXXII –A Conferință Națională de Chimie, Călimănești-Căciulata, 3-5 octombrie 2012, p. 28 (poster presentation).
46. **V.-M. Radu**, E. Diacu, P. Ionescu, *L'elimination des nutriments de l'eau avec macrophytes aquatiques*, A 7-a Ediție a Colocviului Franco-Român de Chimie Aplicată – COFrRoCA Bacău, 2012, pp. 263-264, ISSN 2068-6382 (poster presentation).
47. P. Ionescu, **V.-M. Radu**, *Bioaccumulation de metaux lourds de l'eau dans les plantes aquatiques*, A 7-a Ediție a Colocviului Franco-Român de Chimie Aplicată – COFrRoCA Bacău, 2012, pp. 232-233, ISSN 2068-6382 (poster presentation).

#### **Books / Chapters in Specialty Books / Monographs (with ISBN)**

Gy. Deák, M. Ilie, A. M. Bădiliță, C. M. Raischi, N. S. Raischi, P. Ionescu, A. A. Ivanov, Ana-Maria Anghel, M. S. Matei, I. M. Mărcuș, M. A. Mițiu, M. G. Boboc, I. E. Ciobotaru, F. D. Dumitru, E. Holban, L. A. Laslo, M. Mincu, A. M. Moncea, M. A. Olteanu, **V. M. Radu**, C. Sîrbu, C. Tociu, *Monitorizarea impactului asupra mediului a lucrărilor de îmbunătățire a condițiilor de navigație pe Dunăre între Călărași și Brăila, km 375 și 175*, Editura Petroșani Universitas, 2 vol., ISBN 978-973-741-506-6 (2016):

Vol. 1. - Contains bibliography – ISBN 978-973-741-507-3, pp 1-253

Annex 1 (no. pp. 287)

Vol. 2. - Contains bibliography – ISBN 978-973-741-508-0, pp. 251-433

Annex 2 (no. pp. 202)

**Annex II****LIST OF RESEARCH PROJECTS**

1. Management of Mining Waste IMPEL (2021-2022)- team member (2021-2022)
2. National project PN 19-45-02-02 - Study of secondary resources of technogenic powders in Romania in order to identify the potential of industrial minerals and critical and high-tech raw materials (team member) (2021)
3. National project PN 19-45-02-01, RoQ-Stone - Romanian stone for construction – quality, cultural heritage value, scientific designation (team member) (2021)
4. Sectorial Program of The Minister of Agriculture and Rural Development (Contract ADER 7310/19.09.2019), *Research on the use of composts obtained from sludge resulting from the processing of domestic wastewater as a fertilizer in the pomiculture respecting the environmental acquis* (project partner responsible) (2019-2020)
5. Sectorial Program of the Ministry of Research and Innovation (Contract 3PS/2019), *Research on the risks caused by materials intended for contact with food, by groups of materials. Harmonization with European legislation* (team member) (2019-2020)
6. Sectorial Program of the Ministry of Research and Innovation (Contract 9PS/2017), *National register regarding secondary reserves of raw materials with economic importance resulted from mining residues* (team member) (2017-2018)
7. Sectorial Program of the Ministry of Research and Innovation (Contract PS/2017), *Technologies for the recovery of urban wastewater treatment sludge and municipal waste* (team member) (2017-2018)
8. Complex Project 27PCCDI/2018: innovative technologies for irrigation of agricultural crops in arid, semiarid and sub humid-dry climate (SMARTIRRIG), Project 4 – *Innovative technological solution for the recovery of wastewater for irrigation of energetic crops* (team member) (2018)
9. Nucleu Program – MARES, PN 18 26 01 02.2/2018 Characterisation of transfer processes of heavy metals by means of bioaccumulation/bioconcentration factors and identification of potential risks on human health (deputy project manager) (2018)
10. Nucleu Program – MARES, PN 18 26 01 02.1/2018 Assessment of the quality of aquatic ecosystem based on the analysed physicochemical parameters and the creation/update of a national database regarding the levels of heavy metals in different fish species (deputy project manager) (2018)
11. Nucleu Program – MEVAS, PN 16 04 03 02.3/2017 – Development of methods for the evaluation of the degree of pollution of the aquatic ecosystems (project phase responsible) (2017)
12. Nucleu Program – MADED, PN 09 06 02 39.1/2015 – Application of some parametric inter-correlation algorithms for the assessment of the quality of the aquatic ecosystems (team member) (2015)

13. Nucleu Program – MADED, PN 09 06 02 47. 1/2015 – Research regarding the development of techniques and procedures for the evaluation of the presence and impact caused by inorganic pollutants in aquatic food chain under the influence of anthropic factors (team member) (2015)
14. Nucleu Program – MADED, PN 09 06 01 22.1/2015 – Research on the recovery of heavy metals from industrial sludge by encapsulation as pigments in ceramic materials (team member) (2015)
15. Nucleu Program – MADED, PN 09 06 02 38. 1/2015 – Evaluation of accidental pollution of the Danube section in the area Bala – Old Danube, by means of numerical simulations (team member) (2015)
16. Nucleu Program – MADED, PN 09 06 03 64.1/2015 – Identification of areas affected by mining activities and description of the wastes generated by these activities (team member) (2015)
17. Nucleu Program – MADED, PN 09 06 01 33.1/2015 – Study on nanomaterials used in environmental protection (team member) (2015)
18. Nucleu Program – MADED, PN 09 06 03 53.1/2015 – Research on the development of a GIS model suitable for the planning of municipal waste management at local or regional level (team member) (2015)
19. Nucleu Program – MADED, PN 09 06 02 38.3/2014 – Development and improvement of the algorithm for the multi-parameter index for the quality of the aquatic ecosystems (team member) (2014)
20. Nucleu Program – MADED, PN 09 06 02 38.4/2014 – Development and optimisation of a gas chromatographic method for the determination of oestrogens from the aquatic environment (team member) (2014)
21. Nucleu Program – MADED, PN 09 06 02 38.2/2014 – Study on the presence of endocrine substances in the aquatic environment and their effects on the environment and life quality (team member) (2014)
22. Nucleu Program – MADED, PN 09 06 01 13 – Research on the direct and indirect effects of discharging a thermally polluted effluent in the Danube River (responsible) (2014)
23. Contract 158/2013 – Study on the environmental, economic and social consequences in the Danube Delta Biosphere Reserve – Romania caused by the construction of the Bastroe Channel from the Danube Delta Biosphere Reserve – Ukraine (team member) (2014)
24. Nucleu Program – MADED, PN 09 06 02 38 – Development of procedures for the evaluation and control of accidental pollution risk of rivers from Romania (responsible) (2013-2014)
25. Monitoring the environmental impact of improvement works for navigation conditions on the Danube River, between Călărași and Brăila, KM 375 - km 175” (POS-T2012/3/3/004), 2011-2017, Contract number 53/30.03.2011 (team member, Quality Assurance Responsible, responsible for special situations regarding accidental pollution and management of samples) (2011-2017)
26. International project FP7 - PROMotion and coordination of environmental research in Central and Eastern Europe for a sustainable Development/Seventh Framework Programme (PROCEED) (project responsible) (2011-2013)
27. European project BUILD SEE - Adressing the divide between EU indications and their practical implementation in the green construction and eco-social re-qualification of residential areas in South East Europe regions (team member) (2013)
28. Contract POSDRU/81/3.2/S/59322 -"Increasing the skills of enterprises and employees in sustainable development perspective" funded by the Sectorial Operational Programme Human Resources Development „POSDRU (training assistant coordinator) (2013)

29. Contract POSDRU/81/3.2/S/59322 – Improvement of the skills of companies and employees in the view of the sustainable development (training assistant coordinator) (2013)
30. Nucleu Program – MADED, PN 09 06 03 57.1/2013 – Research on the expansion of human settlements and the role of integrated environmental planning in the sustainable landscaping. Case study (team member) (2013)
31. Nucleu Program – MADED, PN 09 06 01 10.1/2013 – Establishing the best technique for reducing the degree of leaching of nitrates from soil (team member) (2013)
32. Contract 139/2012 – Technical assistance for preparing the gradual compliance with the provisions of Directive 91/271/CEE on urban wastewater treatment – beneficiary the National Institute for Hydrology and Water Management (team member) (2012-2013)
33. Research contract 143/29.10.2012 – Evaluation of soil and water pollution in the areas around the cement factories Carpatcement Holding (responsible) (2012)
34. Nucleu Program – MADED, PN 09 06 02.40.1/2012 – Integrated evaluation of pollutants. Indicators of chemical and bacteriological contamination in lake ecosystems typical for the Bucharest-Ilfov area (team member) (2012)
35. Nucleu Program – MADED, PN 09 06 02.40.2/2012 - Integrated evaluation of pollutants. Part II. Contamination with xenobiotic pollutants in the lake ecosystems typical for the Bucharest-Ilfov area (team member) (2012)
36. Nucleu Program – MADED, PN 09 06 02.40.3/2012 – Ecological characterisation of aquatic microorganisms involved in *in situ* degradation processes. Case studies in anthropic and natural lakes from the Bucharest-Ilfov area (team member) (2012)
37. Restoration of the functionality of piezometric and inclinometric drills from CNE Cernavoda, Contract 129/17.10.2012 (responsible for environmental protection) (2012)
38. Nucleu Program – MADED, PN 09 06 03 50.1 – Solutions for the improvement of environment quality in Romanian organisations by implementing SR EN ISO 14001 : 2005 or EMAS (responsible) (2012)
39. Nucleu Program – MADED, PN 09 06 02 43 – Research on the unconventional technologies for biological wastewater treatment (responsible) (2012)
40. Monitoring contract for soil, noise and air quality (responsible) (2012)
41. Monthly monitoring contract for wastewater discharged in the Neajlov River (responsible) (2012)
42. Nucleu Program – MADED, PN 09 06 02 46 – research on the technologies for the treatment of wastewater resulting from the production of bakery yeast (responsible) (2011-2012)
43. Impact study for establishing the discharge limits and the methods for the determination of new reagents used in the modernised installation of the CNE Cernavoda water treatment facility, Contract 141/31.10.2011 (performer) (2011)
44. Technological line for the advanced treatment of whey resulting from milk industrial processing with the recovery of useful products in– CEEX (team member) (2008-2009)
45. Contract 99/2008 – Monitoring of environmental compartments: water, air – SC Emlin Investments SRL (responsible) (2008)
46. Evaluation and mitigation of historical pollution of aquifers by means of unconventional technologies – ERPISA (team member) (2008)



47. Study on the quantitative and qualitative evaluation of wastewater resulting S.C. R.C.R Print S.R.L, S.C. Basen Import Export S.R.L, S.C. Olimp Printing Services S.R.L (responsible) (2008)
48. CEEX 143/2006 – Development of a laboratory for quality assurance and control in waste/hazardous waste analysis (responsible) (2006-2008)
49. CEEX 181/2006 – Research on the efficiency of using different types of biofilters for the construction of compact plants for advanced wastewater treatment (responsible) (2006-2008)