



Curriculum vitae Europass

Personal info

Name/ First name **Vasile Gabriela-Geanina**
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Profesional experience

Period From June 1994 to present

Employer's name and address National Research and Development Institute for Industrial Ecology ECOIND, 57-73 Drumul Podu Dambovitei, district 6, Bucharest, Pollution Control of Water, Soil and Wastes Laboratory

Title Senior researcher first degree, Doctor in chemistry, chemical engineer

Main activity Scientific research in analytical chemistry, water, soil, sediment and waste pollution control.

Activities and responsibilities

- Coordination of national projects as a responsible partner for CERSUS Centre of Excellence (PN IV Program), testing of electrochemical sensors (PN III Program), respectively the establishment of feed recipes for chickens in order to reduce environmental pollution (ADER Program);
- Management as team leader of national projects (Nucleu Programs, PN II) and international (B.EN.A and COST Projects) in the field of environmental control and protection and elaboration of research reports of the projects under responsibility, as well as of the activities carried out in the framework of other projects;
- VicePresident of ECOIND Scientific Council (advice on emerging institutional strategy topics; support for researchers' professional development; advice on scientific performance indicators; involvement in organizing scientific events.)
- Member of the ECOIND Technical and Economic Council: evaluation (analyzes, approves and monitors the scientific research projects within ECOIND);
- Scientific administrator of the ECOLIB Institutional Repository (indexing and certification of the ECOLIB in Open Access databases ROAR, OPEN DOAR; creation of collections and communities; creation of researcher and organizational profiles; uploading and categorization of documents; curation of records.
- Determination of metal content in environmental samples by UV-VIS spectrometry, flame AAS, AAS-CV, ICP-EOS, ICP-EOS-HG, AFS;
- The development of the uncertainty budget for the analytical methods applied in the laboratory and the validation of the methods applied to the control of the content of metals in environmental samples;
- Studies on quality control of analytical data through statistical techniques;
- Activity of participation in international interlaboratory comparison schemes for testing the performance of test methods developed in the laboratory;
- Dissemination of research results in the country and abroad through the publication of articles in specialized journals and participation in scientific events;
- Participation in the development of project proposals within national and international projects;
- Experimental studies of bioaccumulation and translocation of toxic metals from polluted soils to aromatic and medicinal plants;
- Managing Editor of the Romanian Journal of Ecology & Environmental Chemistry from 2020 to august 2026;
- ACS, CS training in the laboratory for the determination of metals from different environmental matrices using flame AAS, AAS-CV, ICP-EOS, ICP-EOS-USN, AFS techniques as well as ensuring the quality of the results;
- Provision of scientific and technical assistance to beneficiaries for the implementation of analysis methods in platform laboratories and treatment plants (ex.: Petro-Brazi Ploiești);
- Participation in the development of impact studies and environmental assessments at industrial units in the chemical and petrochemical industry by performing analytical control of environmental factors

Education and training

Period	14-23.04.2026
Name and type of educational institution / training provider	UniSmart, University of Padova
Qualification / diploma obtained	Certificate
The main subjects studied / professional skills acquired	Project Management
Period	28-30.10.2025
Name and type of educational institution / training provider	Horiba Scientific, France
Qualification / diploma obtained	Certificate
The main subjects studied / professional skills acquired	RAMAN application training
Period	03.04.2025
Name and type of educational institution / training provider	SC RICON Consulting SRL, INCD-ECOIND
Qualification / diploma obtained	Diploma
The main subjects studied / professional skills acquired	Risk management according to the requirements of OSGGG. no. 600/2018 regarding the approval of the Code of Internal Management Control and SR ISO 31000/2018 Risk Management. Guidelines
Period	10-11.05.2018
Name and type of educational institution / training provider	CERTIND, Personal training center
Qualification / diploma obtained	Certificate (no. L1.22-2018)
The main subjects studied / professional skills acquired	General requirements for the competence of testing and calibration laboratories according to ISO/CEI 17025:2017
Period	07-13.02.2017
Name and type of educational institution / training provider	Ministry of National Education and Scientific Research, G.S. Training Serv SRL
Qualification / diploma obtained	Trainer graduation certificate, code COR 242401
The main subjects studied / professional skills acquired	Training program preparation; preparation of practical training; carrying out training activities; evaluation of training participants; evaluation of the training program
Period	11-15.02.2013
Name and type of educational institution / training provider	2017- , Ranca, Gorj County

Qualification / diploma obtained	Certificate „Management de Proiect & Team Building”
The main subjects studied / professional skills acquired	Management of projects with European funding. Project Cycle Management. The use of the logical matrix in the development of activity and resource plans. Project quality management tools.
Period	2005 - 2009
Name and type of educational institution / training provider	University of Bucharest, Faculty of Chemistry, Doctoral School in Chemistry
Qualification / diploma obtained	In-depth studies on the mobility of toxic metals in environmental factors. Methods of chemical extraction of the mobile metal fraction. Validation of methods for the determination of metals in mobile form in solid environmental matrices.
The main subjects studied / professional skills acquired	Degree of Doctor in Chemistry (20.11.2009) "Monitoring the concentrations of mobile metal species in anthropogenic soils and sediments. Traceability of analytical measurements of mobile metals in soils and sediments"
Level in national or international classification	Post university
Period	15-26.06.2009
Name and type of educational institution / training provider	ORACLE UNIVERSITY / TOTAL SOFT SRL
The main subjects studied / professional skills acquired	Coordination of national and international projects. Financial management. Creating and managing a project. Resources and activities.
Qualification / diploma obtained	Certificate "Project Management in Primavera P6, Advanced Project Management in Primavera P6"
Period	23 – 27.07.2007
Name and type of educational institution / training provider	WISMUT, Chemnitz, Germania
The main subjects studied / professional skills acquired	Sampling of environmental samples (surface water, waste water, soil, sediments, sludge). Sampling equipment. Manipulation. Conservation. Field chemical analyses. Sample preparation equipment for the determination of pollutants. QA/QC. Sampling documentation. Theory and practical part.
Qualification / diploma obtained	Certificate „Sampling training for water, soil, solids and sediments”, Training Course
Period	23 – 24.05.2007
Name and type of educational institution / training provider	European Commission – Joint Research Centre Institute for Reference Materials and Measurements Geel, Belgium și INCD-ECOIND București
The main subjects studied / professional skills acquired	Validation of test methods. Practical examples of developing the Uncertainty Budget
Qualification / diploma obtained	Certificate „Principles and Applications of Metrology in Chemistry”, TrainMIC, Training in Metrology in Chemistry
Period	11 – 12.04.2007
Name and type of educational institution / training provider	European Commission – Joint Research Centre Institute for Reference Materials and Measurements Geel, Belgium și INCD-ECOIND București
The main subjects studied / professional skills acquired	Validation of test methods. Performance parameters. Development of the Uncertainty Budget - general information.

Qualification / diploma obtained	Certificate „Principles and Applications of Metrology in Chemistry”, TrainMIC, Training in Metrology in Chemistry
Period	09 – 10.03.2004
Name and type of educational institution / training provider	European Commission – Joint Research Centre Institute for Reference Materials and Measurements Geel, Belgium, Romanian Bureau of Legal Metrology (BRML), National Institute of Metrology (INM)
The main subjects studied / professional skills acquired	Development of the Uncertainty Budget for the determination of metals in soil. Components, way of evaluating the associated uncertainty. Development of measurement uncertainty calculation software.
Qualification / diploma obtained	Certificate „Principles and Applications of Metrology in Chemistry”, TrainMIC, Training in Metrology in Chemistry
Period	21 – 22.07.2004
Name and type of educational institution / training provider	The Romanian Institute for European Education and Quality and the Accreditation Association from Romania (RENAR)
The main subjects studied / professional skills acquired	Environmental protection in the context of Romania's integration into the EU. The role of environmental analysis laboratories / ISO 14001 certified companies.
Qualification / diploma obtained	Certificate
Period	9 – 11.05.2003
Name and type of educational institution / training provider	FiaTest București și Federeal Environmental Agency Germania
The main subjects studied / professional skills acquired	Precautionary values for protection of soil. Derivation and recommendations for heavy metals. Control of the metal content in the soil (analytical methods, maximum values allowed in European legislation).
Qualification / diploma obtained	Certificate
Period	Septembrie 1987 - Iunie 1992
Name and type of educational institution / training provider	Ploiesti Oil and Gas Institute / Faculty of Oil Processing Technology and Petrochemistry
The main subjects studied / professional skills acquired	Analytical chemistry; Inorganic chemistry; Organic chemistry; Electrochemistry; Physical chemistry; Mathematical statistics; Petrochemical technology; Modeling of chemical processes; Caloric processes.
Qualification / diploma obtained	Chemical Engineer
Name and type of educational institution / training provider	University
Technical skills and competences	Expertise in uncertainty budget development for analytical methods. Expertise in statistical analysis and analytical method validation. Expertise in quality control methods for environmental factors and metal content, in accordance with in-force legislation.

Romanian Society of Chemistry

- Award for contribution to chemistry development in September 2019;
- from November 2024: President of Bucharest 4 branch and member of the Executive Committee.

Data
08.09.2026

Signature
dr. eng. Gabriela-Geanina VASILE

NATIONAL AND INTERNATIONAL PROJECTS TEAM LEADER NATIONAL PROJECTS

Programm / Project	Year
Orizont 2000: Research on the development of remediation methods for soils contaminated with chemical impurities for the purpose of ecological reconstruction. Soils contaminated with petroleum products from the areas of influence of oil processing platforms	1999
Orizont 2000: Study regarding the alignment with international norms of the methods for determining some pollutants present in soils. The inventory of the main deficiencies of the existing national regulations related to the determination of nitrogen in the soil	1999
Orizont 2000: Study regarding the alignment with international norms of the methods for determining some pollutants present in soils. The final development and deepening of the national standard regarding the determination of soil nitrogen by the combustion method	2000
Program Nucleu: Analytical study of mobile metal species with a high degree of toxicity present in environmental factors. Development of the extraction and dosing methodology of mobile forms of cadmium, chromium and lead from different types of soil.	2005
Program Nucleu: Development and "in-house" validation of some analytical methods for the quantification of mobile forms of Cd, Ni and Pb from soils and sediments with different geomorphological structures. Studies and research on the availability of mercury in sediments (PN 06-12 01 09)	2006-2008
Proiect PN II (EVMED): Development and validation of an integrated system for monitoring environmental factors on industrial platforms with a significant impact on the environment. Responsible for Phase IV: "Evaluation and optimization of the existing monitoring network for water and soil environmental factors".	2008
Program Nucleu: Assessing the safety of drinking water supply systems by monitoring the compliance of metal concentrations with the requirements of Directive 98/83/EC (PN 09-13.01.06)	2009-2013
PN-II-PT-PCCA-2013-4-2151 (SEMEMA): Sensors for metals based on electrodes modified with azulene for water quality control - Responsible Partner P3	2014-2017
Program Nucleu: Management of resources and research results using specialized metadata control software (PN 16-25 04 01)	2016-2017
PN-III-P2-2.1-PED-2019-0730: Electrochemical system for the detection of mercury ions	2020-2022
Program Sectorial ADER 2020 (9.1.2.): Research on the use of plant additives in bird feed in order to reduce environmental pollution with nitrogen	2019-2022
Program Nucleu: Methods/methodologies for the structural identification, chemical confirmation and analytical quantification of emerging anthropogenic contaminants in various environmental components in accordance with the new European environmental directives	2023-2026
Centers of Excellence: PN-IV-P6-6.1-CoEx2024-0056 Center of Excellence in water management, valorization of materials, by-products and waste for the implementation of circular bioeconomy (CERSUS) Partner Responsible P7	2023-2026

TEAM LEADER INTERNATIONAL PROJECT

Programm / Project	Year
Proiect Tuborg – DELTA/B.EN.A: Monitoring the physical-chemical quality characteristics of some aquatic ecosystems in the Danube Delta biosphere. The state of physical-chemical quality of aquatic ecosystems in the Danube Delta biosphere in the localities of Uzlina and Murighiol	2005
Proiect Tuborg - B.EN.A: The state of physical-chemical quality of aquatic ecosystems in the Danube Delta biosphere in the localities of Uzlina and Murighiol	2006-2007
Proiect international COST ACTION 637 „Metals and related substances in drinking water” – Representative of Romania in the Management Committee, Expert in drinking water quality control	2008-2010

TEAM MEMBER IN NATIONAL AND INTERNATIONAL PROJECTS - selection

Program / Project	Role	Year
Program LEONARDO DA VINCI: Training module for environmental pollution control	Trainer	2003-2005
Program MENER: The spatio-temporal evolution of the ecological parameters in the Colentina river lake basin and online monitoring by applying an automatic system as by performing analytical control of environmental factors	Member of the team	2004
Program CEEEX, Modul 4, P-CONFORM (Contract nr. 158/10.08.2006): Extending the accreditation of the environmental testing laboratory by implementing new methods for the analysis of priority/priority dangerous substances in accordance with the transposed EU Directives, such as by performing analytical control of environmental factors	Member of the team	2006-2007
Program PHARE 2007/19343.07.01: Harmonization of Romanian agricultural and environmental statistics with European norms and standards	Member of the team	2009-2010
Mecanism financiar SEE-EEA GRANTS RO 0016 (Financial program of Iceland, Norway and Lichtenstein for Romania): Water quality monitoring system intended for human consumption, produced and distributed by Romanian companies	Member of the team	2009-2011
Program Nucleu: Monitoring the ecological diversity of deltaic aquatic systems based on the spatio-temporal relationship. Case study – the south-eastern area of the Danube Delta	Member of the team	2009-2013
Proiect "Development of the national sewage sludge management policy - Romania", beneficiary Ministry of the Environment and Forests	Member of the team	2010-2011
Program Nucleu: Evaluation of the ecotoxicity of dangerous substances on microorganisms from sediments / soil using microbiotest type methods	Member of the team	2012-2014
Program Nucleu: Systemic assessment of surface water bodies in accordance with the Water Framework Directive. Case study: tributaries of the Danube from southern areas of Romania	Member of the team	2013-2014
Program Nucleu: Integrated system for evaluating the ecological status and diversity of aquatic lotic systems in the Danube Delta	Member of the team	2013-2014
Program Nucleu: Study of the mobility of priority dangerous substances in river sediments polluted by anthropogenic industrial activities	Member of the team	2012-2013
Program Nucleu: Research on the presence of metallic elements in the soil, aquatic ecosystems and vegetation in an area affected by mining activities	Member of the team	2014
Proiect bilateral Romania China nr 616/2013: Designing of biodegradable Casein-based Core-shell/Hollow structural nano SiO ₂ composite and its application for drug delivery system	Member of the team	2014
Program sectorial ADER 2020 , Contract nr. ADER 8.1.4/26.11.2013: Integrated traceability and control systems of animal and non-animal food for the identification of potentially carcinogenic risk factors in the environment, farm, processing, transport, consumption	Member of the team	2013 - 2014
PN-II-IN-DTST-2012-0085 (VITAOU): Obtaining the low-cholesterol consumption egg, a new product on the Romanian market	Member of the team	2014 - 2015
Program Nucleu: The ecological diversity of aquatic ecosystems upstream and downstream of urban agglomerations. Case study: Dambovită River upstream / downstream of the City of Bucharest	Member of the team	2015
Program Sectorial ADER 2020 (6.1.2.): The efficiency of the valorization of industrial by-products through the development for farm animals of some innovative nutritional strategies friendly to animals, humans and the environment, the component of sustainable agriculture	Member of the team	2015-2018

Programul/Proiectul	Functia	Perioada
Program Nucleu: Quantification of the bioavailability of the mobile metal fractions from sewage treatment plant sludge using sequential chemical extraction procedures / Selection of the optimal chemical extraction method of the mobile metal fractions of As, Cd, Cr and in-house validation of the determination methods (PN 16 25 01 09)	Member of the team	2016-2017
Program Nucleu: Bioindicators used to evaluate pollution and to monitor the quality of underground water (PN 16 25 02 01)	Member of the team	2016-2017
Program Nucleu: Research on the chemical composition of atmospheric deposits / Characterization of dry deposits from the atmosphere - Case study (PN 16 25 02 08)	Member of the team	2016-2017
Program Nucleu: Evaluation of the bioaccumulation potential of heavy metals in aquatic organisms and identification of stress biomarkers / Identification of the bioaccumulation potential of metals in the selected biological model (estimation of bioaccumulation / bioconcentration factors) (PN 16 25 02 04)	Member of the team	2016-2017
Program Nucleu: Ecological evaluation of water bodies in accordance with the requirements of the Water Framework Directive. Case study: the Romanian sector of the Danube and the main tributaries / Evaluation study for the water body analyzed on a spatio-temporal scale for the summer-autumn period (PN 16 25 02 03)	Member of the team	2016-2017
Program Nucleu: A new approach to the evaluation of the quality of drinking water sources by means of water quality indices / Application of water quality indices in the evaluation of the quality of surface water used as a source of drinking water (PN 16 25 02 01)	Member of the team	2016-2017
Program nucleu: Development of advanced analytical methodologies for the detection and identification of emerging contaminants and their biodegradation products from environmental factors (water, soil, sludge) and biota (EMERGMET) (PN 18 05 01 01)	Member of the team	2018
PN III, Program 2, Subprogram 2.1. - Transfer to economic operator LUMISOL, New nutritional solutions for laying hens, rich in cellulose, decisive in increasing the competitiveness of a poultry unit by reducing production costs and increasing egg quality	Member of the team	2018- 2019
PNCI III, Program 1 - Development of the national research-development system, Subprogramme 1.2. - Institutional performance, ECOSOFIND Institutional Development Project	Member of the team	2018-2020
Program Nucleu: Advanced research on the transfer of emerging contaminants from abiotic environmental factors to aquatic organisms and plants through bioaccumulation (BIOACUM) (PN 19 04 01 01)	Member of the team	2019-2022
P4 - Fundamental and frontier research / Complex frontier research projects (PCCF) PN-III-P4-ID-PCCF2016-0114: Selection and dissemination of antibiotic resistance genes from wastewater treatment plants in the aquatic environment and the clinical sector	Member of the team	2018-2022
Proiectul cod SMIS 139648 - "Support project for the preparation of DANUBIUS-RI - DANS2"	Responsible Activity 2.2	2021
Institutional development project of INCD-ECOIND, contract 024PFE, cod 564 , Institutional performance, ECOEFIND Institutional Development Project	Responsible for implementing the research infrastructure	2022-2024

ISI ARTICLES LIST

1. Cristian Constantin, Cristina Modroga, Annette Madelene Dancila, **Gabriela Geanina Vasile**, Maria Lavinia Moise, Valeriu Danciulescu, Chemical characterization and source level reduction of odor active compounds (NH_3 and H_2S) in a non-hazardous waste drying facility, *U.P.B. Sci. Bull., Series Chemistry*, **2026**, in press.
2. Cristian Constantin, Cristina Modroga, Annette Madelene Dancila, Georgeta Olguta Gavrilă, Simona Mariana Calinescu, Alexandru Cirstea, Valeriu Danciulescu, Gheorghita Tanase, **Gabriela Geanina Vasile**, Dispersion modelling of odours emission from area sources in a Municipal Wastewater Treatment Plant, *Atmosphere*, **2025**, 16, 577; <https://doi.org/10.3390/atmos16050577>.
3. Georgeta Olguta Gavrilă, **Gabriela Geanina Vasile**, Simona Mariana Calinescu, Cristian Constantin, Gheorghita Tanase, Alexandru Cirstea, Valentin Stancu, Valeriu Danciulescu, Cristina Orbeci, Assessment of CH_4 and CO_2 emissions from a municipal waste landfill: trends, dispersion, and environmental implications, *Atmosphere*, **2025**, 16 (7); <https://doi.org/10.3390/atmos16070752>.
4. Tenea A.-G., Dinu, C., Rus, P.A., Ionescu, I.A., Gheorghe, S., Iancu, V.I., **Vasile, G.G.**, Pascu, L.F., Chiriac, F.L., Exploring adsorption dynamics of heavy metals onto varied commercial microplastic substrates: Isothermal models and kinetics analysis, *Heliyon*, **2024**, 10(15), <https://doi.org/10.1016/j.heliyon.2024.e35364>.
5. Florea C.V., Buica G.O., Pandele M. A., Onas A.M., Voicu M.E., Hanganu A., Tecuceanu V., **Vasile G.G.**, Devan C., Stan R., Raicopol M.D., Dual-Function Sensing Platform for Hg(II) Based on a Redox-Active Thiosemicarbazone Receptor, *Journal of Electroanalytical Chemistry*, **2024**, vol. 961, <https://doi.org/10.1016/j.jelechem.2024.118251>.
6. Luoana-Florentina Pascu, Valeriu Danciulescu, Simona Mariana Calinescu, Vasile Ion Iancu, Ileana Nicolescu, Alina Roxana Banciu, Mihai Nita-Lazar, **Gabriela-Geanina Vasile**, Assessment of particulate matters, metals and PAH's air pollution industrial vs animal husbandry areas, *Atmosphere*, **2024**, 15(1), <https://doi.org/10.3390/atmos15010141>.
7. Cristian Pirvu, Mariana Prodana, Cristina Dumitriu, Alexandru George Gheboianu, Andreea Madalina Pandele, Marius Enachescu, **Gabriela-Geanina Vasile**, George-Octavian Buica, Heavy metal ion detection using TiO_2 nanotubes and self-reduced TiO_2 nanotube electrodes, *Applied Sciences*, **2024**, 14(24), <https://doi.org/10.3390/app142411879>.
8. Florentina Laura Chiriac, Catalina Stoica, Cristina Iftode, Florinela Pirvu, Valentina Andreea Petre, Iuliana Paun, Luoana Florentina Pascu, **Gabriela Geanina Vasile**, Mihai Nita-Lazar, Bacterial biodegradation of perfluorooctanoic acid (PFOA) and perfluorosulfonic acid (PFOS) using pure pseudomonas strains, *Sustainability*, **2023**, 15, <https://doi.org/10.3390/su151814000>.
9. Nicoleta Vasilache, Elena Diacu, Sorin Cănanău, Anda Gabriela Tenea, **Gabriela Geanina Vasile**, The influence of extractable metal concentration on the phytoremediation potential of *Sinapis Alba* plant, *Plants*, **2023**, 12(17), <https://doi.org/10.3390/plants12173123>.
10. Alina Alexandra Ciobanu, Dumitru Bulgariu, Ioana Alexandra Ionescu, Diana Maria Puiu, **Gabriela Geanina Vasile**, Laura Bulgariu, Evaluation of thermodynamic parameters for Cu(II) ions biosorption on algae biomass and derived biochars, *Symmetry*, **2023**, 15, <https://doi.org/10.3390/sym15081500>.
11. Alina-Alexandra Ciobanu, **Gabriela Vasile**, Laura Bulgariu, Biosorption of Cu(II) ions on algae biomass and derived biochar, *Environmental Engineering and Management Journal*, 22(5), **2023**, pp. 899-907, <https://doi.org/10.30638/eemj.2023.072>.
12. Tenea, A.G., Dinu, C., Buica, O.G., **Vasile, G.G.**, Electrochemical System for Field Control of Hg^{2+} Concentration in Wastewater Samples, *Sensors*, 23(3), **2023**, <https://doi.org/10.3390/s23031084>.

13. Ionela C. Voinea, Cristina F. Alistar, Alina Banciu, Roua G. Popescu, Sorina N. Voicu, Mihai Nita-Lazar, **Gabriela Geanina Vasile**, Stefania Gheorghe, Alexa-Maria Croitoru, Georgiana Dolete, Dan Eduard Mihaiescu, Anton Fikai, Marcela Popa, Luminita Marutescu, Gratiela Gradisteanu Pircalabioru, Sorin Avramescu, George Catalin Marinescu, Mariana-Carmen Chifiriuc, Miruna S. Stan, Anca Dinischiotu, Snapshot of the pollution-driven metabolic and microbiota changes in *Carassius gibelio* from Bucharest leisure lakes, *Science of the Total Environment*, vol. 884, **2023**, <https://doi.org/10.1016/j.scitotenv.2023.163810>.
14. Vasilache N., Diacu E., Modrojan C., Chiriac F.L., Paun I.C., Tenea A.G., Pirvu F., **Vasile G.G.**, Groundwater quality affected by the pyrite ash waste and fertilizers in Valea Calugareasca, Romania, *Water*, **2022**, 14(13), <https://doi.org/10.3390/w14132022>.
15. Alistar F.C., Nica I.C., Nita-Lazar M., **Vasile G.G.**, Gheorghe S., Croitoru A.M., Dolete G., Mihaescu D.E., Fikai A., Craciun N., Pircalabioru G.G., Chifiriuc M.C., Stan M., Dinischiotu A., Antioxidative Defense and Gut Microbial Changes under Pollution Stress in *Carassius gibelio* from Bucharest Lakes, *International Journal of Environmental Research and Public Health*, **2022**, 19(22), <https://doi.org/10.3390/ijerph19127510>.
16. **Vasile G.G.**, Tenea A.G., Dinu C., Iordache, A.M.M., Gheorghe S., Mureseanu M., Pascu L.F., Bioavailability, Accumulation and Distribution of Toxic Metals (As, Cd, Ni and Pb) and Their Impact on *Sinapis alba* Plant Nutrient Metabolism, *International Journal of Environmental Research and Public Health*, **2021**, 18(24), <https://doi.org/10.3390/ijerph182412947>.
17. Vasilache N., Diacu E., Modrojan C., Lucaciu I., **Vasile G.**, Paun I.C., Iancu V., Forecasting methods for assessment of the biodegradability of wastewater from organic separators, *U.P.B. Sci. Bull., Series Chemistry*, **2021**, no. 4, pp. 95-108.
18. Tenea, A.G., **Vasile G.G.**, Mureseanu, M., Gheorghe, S., Stoica, C., Effects on seeds germination and bioaccumulation of lead in white mustard in a laboratory study, *Scientific Study & Research Chemistry & Chemical Engineering, Biotechnology, Food Industry*, **2021**, 22 (4), pp. 479-489.
19. Dinu C., Gheorghe S., Tenea A.G., Stoica C., **Vasile G.G.**, Popescu R.L., Serban E.A., Pascu L.F., Toxic metals (As, Cd, Ni, Pb) impact in most common medicinal plant (*Mentha piperita*), *International Journal of Environmental Research and Public Health*, **2021**, 18, <https://doi.org/10.3390/ijerph18083904>.
20. Raicopol M.D., Pandeale A.M., Dascalu C., Vasile E., Hanganu A., **Vasile G.G.**, Bugean I.G., Pirvu C., Stanciu G., Buica G.O., Improving the voltammetric determination of Hg(II): a comparison between ligand-modified glassy carbon and electrochemically reduced graphene oxide electrodes, *Sensors*, **2020**, 20, <https://doi.org/10.3390/s20236799>.
21. Dinu C., **Vasile G.G.**, Buleandra M., Popa D.E., Gheorghe S., Ungureanu E.M., Translocation and accumulation of heavy metals in *Ocimum basilicum* L. plants grown in a mining-contaminated soil, *Journal of Soils and Sediments*, **2020**, 20(4), pp. 2141-2154.
22. **Vasile G.G.**, Gheorghe S., Ene C., Serban E.A., Stoica C., Total mercury in fish and benthic invertebrates collected from Olt River, Romania, *Revista de Chimie (Bucuresti)*, **2019**, 70(1), pp. 263-268.
23. **Vasile G.G.**, Dinu C., Kim L., Tenea A., Simion M., Ene C., Spinu C., Ungureanu E.M., Manolache D., Platinum group elements in road dust and vegetation from some European and national roads with intensive car traffic in Romania, *Revista de Chimie (Bucuresti)*, **2019**, 70(1), pp. 286-292.
24. Iancu V.I., Petre J., Galaon T., **Vasile G.G.**, Radu G.L., Investigation on parabens occurrence in Romanian WWTP sludge by LC-MS/MS Method, *Revista de Chimie (Bucuresti)*, **2018**, 69(11), pp. 4148-4152.
25. Dinu C., Ungureanu E.M., **Vasile G.G.**, Kim L., Pascu L.F., Simion M., Evaluation of the bioavailability and pollution indexes of some toxic metals in polluted soils from an abandoned mining area, *Revista de Chimie (Bucuresti)*, **2018**, 69(11), pp. 4141-4147.

26. Bucur E., Vasile A., Pascu L.F., Lehr C.B., **Vasile G.**, Environmental impact assessment regarding indoor air quality using statistical methods, *Revista de Chimie (Bucuresti)*, **2018**, 69(11), pp. 4125-4128.
27. **Vasile G.G.**, Popa D.E., Buleandra M., David I.G., An experimental design for the optimization of the extraction methods of metallic mobile fractions from environmental solid samples, *Environmental Monitoring and Assessment*, **2018**, 190(609), <https://doi.org/10.1007/s10661-018-6983-x>.
28. Lazar I.G., Diacu E., **Vasile G.G.**, Ungureanu E.M., Ivanov A.A., Study of Analytical Parameters of a Differential Pulse Voltammetric Method using Chemically Modified Electrodes for Lead Analysis in Water, *Revista de Chimie (Bucuresti)*, **2018**, 69(9), pp. 2311-2314.
29. Balc R., Tamas T., Popita G., **Vasile G.**, Bratu M.C., Gligor D.M., Moldovan C., Assessment of chemical elements in soil, grapes and wine from two representative vineyards in Romania, *Carpathian Journal of Earth and Environmental Sciences*, **2018**, 13(2), pp. 435-446.
30. Niculae A., **Vasile G.G.**, Ene C., Cruceru L.V., The study of groundwater contamination with volatile organic micropollutants (trichloroethylene) in Northern Bucharest, *Revista de Chimie (Bucuresti)*, **2018**, 69(1), pp. 6-9.
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