

SIMI SCIENTIFIC COMMITTEE

Section: Pollution Assessment and Management Systems

Ph.D. Eng. Gabriela-Geanina VASILE

SHORT PROFESSIONAL INFO

Senior Researcher, PhD with environmental analytical chemistry background. Author/co-author of scientific papers including: 25 ISI quoted articles, 2 books (1 dedicated to *Evaluation of soil quality using mobile metallic fraction* and another, a *Best Practice Guide on Sampling and Monitoring of Metals in Drinking Water*), 5 book chapters, 14 ISI Proceeding papers, 7 IDB articles, 34 platform presentations on national and international conferences in environmental issues, Hirsch index 6. Ph.D. in analytical chemistry with the thesis "*Monitoring of mobile metallic species concentrations from anthropogenic soils and sediments. Traceability of analytical measurements of mobile metals in soils and sediments*". Team leader in 12 national and international environmental research projects, and participated as team member in more than 35 national /international environmental research projects.



ACTUAL POSITION

Scientific Researcher 2nd degree

National Research and Development Institute for Industrial Ecology – ECOIND
Control Pollution Department, *Water, Soil, Wastes Pollution Control Laboratory*

ACADEMIC QUALIFICATION

2010: PhD University of Bucharest, Faculty of Chemistry, Analytical Chemistry Department

1992: Chemical Engineer, Oil and Gas Institute of Ploiesti, Faculty of Petroleum and Petrochemical Processing Technology

RESEARCH INTEREST

- Assessment of water bodies quality;
- Control of metals in environmental samples using a wide range of analytical techniques;
- Research on metals mobility in solid environmental samples and effects to the water quality;
- Validation of the analytical methods for different environmental matrices.

SCIENTIFIC PUBLICATIONS / AWARDS

ISI papers (selection)

Gabriela-Geanina Vasile, Nicoleta-Mirela Marin, Liliana Valeria Cruceru, Marius Simion, Toma Galaon, Carol Blaziu Lehr, Determination of Ultra-Trace Mercury in Water Samples Based on Cold Vapor Atomic Fluorescence Spectrometry Using a Gold Trap, *Revista de Chimie (Bucuresti)*, **2016**, 67 (8), 1427-1432;

Sereanu, V., Meghea, I., **Vasile, G. G.**, Simion, M., Mihai, M., Morphology and chemical composition relation of Rapana Thomasiana shell sampled from the Romanian Coast of the Black Sea, *Continental Shelf Research*, **2016**, 126, 27-35;

Tatiana Panaite, Rodica Diana Criste, Mariana Ropota, Cornescu, Daniela Cristiana Alexandrescu, Virgil Criste, **Gabriela Vasile**, Margareta Olteanu, Arabela Untea, Effect of Layer Diets Enriched in Omega-3 Fatty Acids Supplemented with Cu on the Nutritive Value of the Eggs, *Romanian Biotechnological Letters*, **2016**, 21 (4), 11754-11762

Lidia Kim, **Gabriela-Geanina Vasile**, Bogdan Stanescu, Cristina Dinu, Corina Ene, Distribution of Trace Metals in Surface Water and Streambed Sediments in the Vicinity of an Abandoned Gold Mine from Hunedoara County, Romania, *Revista de Chimie (Bucuresti)*, **2016**, 67 (8), 1441-1446

Stefania Gheorghe, **Geanina Gabriela Vasile**, Catalina Stoica, Mihai Nita-Lazar, Irina Lucaciu, Alina Banciu, Phytotoxicity tests applied on sewage sludge resulted from urban wastewater treatment plants, *Revista de Chimie (Bucuresti)*, **2016**, 67 (8), 1469-1473

Vasile, G., Dinu, C., Ene, C., Cruceru, L., Damian, N., Stancu, A., Influence of metallic pipes from domestic distribution system to the tap water quality, *Revista de Chimie (Bucuresti)*, **2015**, 66 (1), 92-96

Vasile G.G., Marin N.M., Petre J., Cruceru L. V., Ultrasonic nebuliser, a useful tool for improving the sensibility of trace element detection in surface water, *Journal of Environmental Protection and Ecology*, **2016**, 17 (1), 31-41;

Vasile, G., Tanase, I. Gh., Dinu, C., The influence of the air-drying pre-treatment of sediment samples for metallic element mobilities, *Analytical Letters*, **2010**, 43, 1199-1206;

Vasile, G., Dinu, C., Cruceru, L., Petre, J., Distribution water materials and tap water quality, *Environmental Engineering and Management Journal*, **2010**, 9 (11), 1465-1471

Vosniakos, F., Petre, J., Pascu, L., **Vasile, G.**, Nicolau, M., Staniloae, D., Iancu, V., Cruceru, L., Golumbeanu, M., Aquatic ecosystem quality assessment of the Danube Delta in the periods April – October 2007 and 2008, *Fresenius Environmental Bulletin*, **2010**, 19 (1), 20-29

Vasile, G., Tănase, I. Gh., Comparative study of different extraction methods of bioavailability of terrestrial sediment-bound metallic elements, *Revue Roumaine de Chimie*, **2008**, 53 (11), 1041-1049

Vosniakos, F., Petre, J., **Vasile, G.**, Cruceru, L., Nicolau, M., Mitrita, M., Iancu, V., Cruceru, I., Evaluation of the physical-chemical quality state of the Danube Delta Aquatic Ecosystem during the period 2003 – 2004, *Fresenius Environmental Bulletin*, **2006**, 15 (5), 401 – 408.

Books

Adam Postawa, Maria Joao Benoliel, Matthew Bower, Brian Croll, Colin Hayes, Eddo Hoeskstra, Ewa Kmiecik, Andre Miranda, Joao Miguel Paiva, Agnes Sebastyen, Marcel Tielemans, **Gabriela Vasile** **Best Practice Guide on Sampling and Monitoring of Metals in Drinking Water**, ISBN: 978-18-433-9383-2, **2012**, IWA Publishing

Vasile Gabriela Geanina, **2011**, **Evaluarea poluarii solului utilizand fractia metalica mobila**, ISBN: 978-973-558-550-1, Editura Ars Docendi, Bucuresti, 134 pagini

Book chapters (selection)

Stefania Gheorghe, Catalina Stoica, **Gabriela-Geanina Vasile**, Mihai Nita-Lazar, Elena Stanescu, Irina Eugenia Lucaciu, Chpter 4: *Metals toxic effects in aquatic ecosystems: modulators of water quality*, **Water Quality**, ISBN 978-953-51-2882-3, edited by Hlanganani Tutu, **2017**, InTech Croatia, 59-89 pp, <http://dx.doi.org/10.5772/65744>;

Vasile, G., Cruceru, L., Dinu, C., Chiru, E., Gheorghe, D., Ciupe, A., Chapter 20: *Evaluation of drinking water quality in three municipalities of Romania: the influence of municipal and customer's distribution systems concerning trace metals*, **Water Quality Monitoring and Assessment**, ISBN: 978-953-51-0486-5, **2012**, InTech Croatia, 457- 480 pp;

Vosniakos, F., **Vasile, G.**, Albanis, T., Petre, J., Cruceru, L., Nicolau, M., Cruceru, I., Stanescu, E., Kochubovski, M., Gjorgjev, D., Nikolaou, K., Golumbeanu, M., Vosniakos, K., Vasilikiotis, G., *Comparison study of physicochemical parameters evaluation between Danube River Delta and Axios- Vardar River Valley (2003-2009)*, NATO Science for Peace and Security Series C-Environmental Security. **Environmental Heavy Metal Pollution and Effects on Child Mintal Development. Risk Assessment and Prevention Strategies**, ISBN: 978-94-007-0255-4, **2010**, Springer, Olanda, 257 – 286

ISI Proceedings (selection)

Vasile, G.G., Catranguiu, A., Cruceru, L.V., *A field study on overnight stagnation of drinking water in domestic distribution system*, 14th GeoConference on Water Resources, Forest, Marine and Ocean Ecosystems, Conference Proceedings, vol I, Hidrology & Water Resources (SGEM), 11-18 pp., ISBN 978-619-7105-13-1, 17-26 June, 2014, Albena, Bulgaria;

Vasile, G.G., Kim, L., Gheorghe, St., Stanescu, B., *Ecological assessment of mobile cadmium in sediments from Certej mining site, Hunedoara county, Romania*, 13th International Multidisciplinary Scientific Geoconference, Ecology, Economics, Education and Legislation (SGEM), Conference Proceedings, vol I, Ecology and Environmental Protection, 299-306 pp., ISBN 978-619-7105-04-9, 16-22 June, 2013, Albena, Bulgaria;

Vasile, G.G., Petre, J., Nicolau, M., *Metal speciation in sediments from Rosia Montana mining area, Romania*, 13th International Multidisciplinary Scientific Geoconference, Ecology, Economics, Education and Legislation (SGEM), Conference Proceedings, vol I, Ecology and Environmental Protection, 677-684 pp., ISBN 978-619-7105-04-9, 16-22 June, 2013, Albena, Bulgaria.