Olga COVALIOVA

Function	Coordinating Scientist, chemist
Institution	Institute of Chemistry scientific unit: Research Laboratory of Quantum Chemistry, Catalysis and Physical Methods (IChem*)*
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Direction	Ecological chemistry, water and wastewater treatment and reuse, decontamination and management of liquid industrial and agricultural wastes

Areas of expertise

Environmental projects/programs management and planning

Public awareness and participation

Research and training activity in ecological chemistry and sustainable development

Development of the water and wastewater treatment technologies including reduction-oxidation, physical effects, catalytic and electrochemical processes, for toxic components decontamination in water environments (including heavy metals and refractory organic pollutants), intensified biochemical technologies for heavily polluted waters treatment from agricultural sector

Expertise and best practices in solid and liquid wastes management.

Professional Background

Education/academic degrees

- University Diploma (MS) in Chemistry, Moldova State University, Chisinau, 1982
- Ph.D. in Chemistry, Chemical-Technological University, Kazani, RF, 1989
- Dr.Hab. in Chemistry, Institute of Chemistry ASM, Chisinau, 2015

Employments

- Institute of Chemistry ASM, researcher (1982), coordinating scientist (since 2015)
- Institute of Applied Physics ASM, researcher (1982-1991)
- Moldova State University, Assistant Professor and research activities (1992-present)

- Visiting researcher at the Institute of Water Chemistry and Mineral Resources, Research Laboratory "Electrochemistry of Water", Novosibirsk, RF (1985-1987); "Blaise Pascal" University, Laboratory of Photocatalysis, Clermont-Ferrand, France (2003 through 2008).
- Participated as research coordinator and scientist in national and international research projects on water treatment and water compartments purification from pollutants (grants NATO, INTAS, CRDF, STCU, etc.).
- Project Coordinator, then Environmental Expert of the "WB Pilot Water Supply and Sanitation Project", Moldova 2001-2011;
- Project Manager of "WASTEnet – A Black Sea network promoting integrated natural Wastewater treatment systems", Black Sea Joint Operational Programme 2013-2015;
- Environmental Expert in the Project "Extension of the implementation of the EU's Natura 2000 principles through the Emerald Network" Council of Europe / European Commission Joint Programme 2009-2012, etc.

Publications

P. Solozhenkin, O.Covaliova, O.Shavakuleva. Electrochemical Methods of Waste Water Treatment and Sludge Utilization. Manual.- Magnitogorsk, Technical Univ.Publ.House, 2010.- 228p.

Delort A.-M., Besse P., Mailhot G., Sanselme M., Combourieu B., Chorao Ch., Covaliova O. et al. Aspects concerning the photo- and biodegradation of benzothiazoles in aquatic compartment. In: Chemistry Journal of Moldova. 2008, vol.3 (2), p.58-64.

Covaliova O. Effect of compex formation on electrochemical behaviour of metal-containing waste waters. In: Chemistry Journal of Moldova. 2009, vol.4(2), p.34-40.

Covaliova O.V., Koshev A.N., Varentsov V.K. Application of flow-through three-dimensional electrodes for regeneration of plating iron electrolytes: 2. Study of process regularities by mathematical modeling. In: Chemistry Journal of Moldova. 2014, vol.9(2), p.41-51.

Covaliova O. Combined photo-biochemical reactor for the destruction of organic pollutants in water. In: The Role of Ecological Chemistry in Pollution Research and Sustainable Development. NATO Science for Peace and Security Series C: Environmental Security. Springer. 2009, p.119-126.

Covaliov V., Duca Gh., Covaliova O. «Green Energy»: Innovative ecobiotechnologies and integrated reactors. Anthology of inventions ». Ichem ASM, MSU. – Chisinau: CEP USM, 2017.- 504 p/. ISBN 978-9975-71-902-5.