

Curriculum Vitae

Name	Ing. Vaclavikova Miroslava, PhD.
Institution	Institute of Geotechnics, Slovak Academy of Sciences, Watsonova 45, Kosice 040 01, Slovakia
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Short CV (work experience, education and professional training)	<p>Work experience 09/2000 – present: Senior Scientist 01/2014-04/2022: Scientific Secretary at IGTSAS 2013-2017 Consortium Coordinator for FP7-PEOPLE-2013-IAPP-612250-WaSClean project 2010-2011 Marie Curie Fellow – Experienced researcher at the School of Environment and technology, University of Brighton, UK (on unpaid leave from IGT SAS) 2008-2009 Post doctoral researcher at the School of Chemistry, Royal Military Academy, Brussels, Belgium (on unpaid leave from IGT SAS)</p> <p>Education 2000–2003 joint PhD Study at the Institute of Geotechnics SAS and Technical University of Kosice, Specialization: Mineralurgy & Environmental Technologies PhD Thesis “Removal of Heavy Metals from Wastewaters” 1995–2000 Master of Engineering – Mineralurgy & Environmental Technologies , Technical University of Kosice, Faculty of Mining, Ecology, Process Control and Geotechnology. Master Thesis “Utilization of fly ash from coal fired power plant and waste storage” (Grade: excellent).</p> <p>Professional training ▪ principal subjects/skills: development, testing and applications of novel materials based on iron oxides; surface modification of minerals such as zeolites, clays, carbon etc; wastewater treatment – adsorption, ion exchange, electrochemical oxidation, advanced oxidation processes, removal of AOX from waters. Surface characteristic of microporous materials; environmental remediation and recovery.</p>
Recent publications and patents	<p>Melnyk, I., Václavíková, M., Ivaničová, L., Kaňuchová, M., Seisenbaeva, G., Kessler, V. Features of the surface layer structure of the magnetosensitive materials functionalized by silica with thiourea groups and their applying for selective Cu(II) and Au(III) ions removal. In Applied Surface Science, 2023, vol.609, p.155253. ISSN 0169-4332. https://doi.org/10.1016/j.apsusc.2022.155253</p> <p>Jáger, D., Kupka, D., Václavíková, M., Ivaničová, L., Gallios, G.P. Degradation of Reactive Black 5 by electrochemical oxidation. In Chemosphere, 2018, vol. 2, no. 10, p. 405-416. ISSN 0045-6535. https://doi.org/10.1016/j.chemosphere.2017.09.126</p> <p>Yankovych, H, Melnyk, I., Václavíková, M.**. Understanding of mechanisms of organohalogen removal onto mesoporous granular activated carbon with acid-base properties. In Microporous and Mesoporous Materials, 2021, vol. 317, art. no. 110974, ISSN 1387-1811. https://doi.org/10.1016/j.micromeso.2021.110974</p> <p>Yankovych, H., Novoseltseva, V., Kovalenko, O., Marcin Behunová, D., Kaňuchová, M., Václavíková, M., Melnyk, I.**. New perception of Zn(II) and Mn(II) removal mechanism on sustainable sunflower biochar from alkaline batteries contaminated water. In Journal of Environmental Management, 2021, vol. 292, art. no. 112757. ISSN 0301-4797. https://doi.org/10.1016/j.jenvman.2021.112757</p> <p>Boretti, A., AL-Zubaidy, S., Václavíková, M., AL-Abri, M., Castelletto, S., Mikhalovsky, S. Outlook for graphene-based desalination membranes. In npj Clean Water, 2018, vol. 1, no. 5, p. 1-11. ISSN 2059-7037. https://doi.org/10.1038/s41545-018-0004-z</p> <p>Kupka, D., Václavíková, M., Bodnár, G. Flotation column and set-up for wastewater clean-up containing the flotation column. Utility model SK-9743-Y1, Industrial Property Office of the Slovak Republic, 28.3.2023</p>