

Candidate supervisor's information summary form

Name and surname, degree, title: dr hab. inż. Lidia Reczek	
Discipline/ disciplines of science	environmental engineering, mining and energy
Professional development (degrees and titles) in chronological order	2002 - PhD in engineering diploma of technical sciences in the field of environmental engineering, awarded by Council of the Faculty of Environmental Engineering of the Warsaw University of Technology 2020 - habilitated PhD engineer of engineering and technical sciences in the discipline of environmental engineering, mining and energetics awarded by a resolution of the Discipline Council of Environmental Engineering, Mining and Power Engineering at the Warsaw University of Life Sciences in Warsaw 24 June 2020
Most important publications/ patens over the last 3 years (maximum 10)	<ol style="list-style-type: none"> 1. Trach Y., Melnychuk V., Michel M., Reczek L. Siwiec T., Trach R. (2021): The Characterization of Ukrainian Volcanic Tuffs from the Khmelnytsky Region with the Theoretical Analysis of Their Application in Construction and Environmental Technologies. <i>Materials</i>, 14, 7723. doi.org/10.3390/ma14247723 2. Reczek L., Michel M., Trach Y., Siwiec T., Tytkowska-Owerko M. (2020): The kinetics of manganese sorption on ukrainian tuff and basalt - order and diffusion models analysis <i>Minerals</i>, vol. 10, nr 12, 1-15, doi:10.3390/min10121065 3. Michel M., Reczek L., Papciak D., Włodarczyk - Makuła M., Tadeusz Siwiec T., Trach Y. (2020): Mineral materials coated with and consisting of MnO_x - characteristics and application of filter media for groundwater treatment: A Review <i>Materials</i>, 13, 10, 1-35, doi:10.3390/ma13102232 4. Reczek L., Michel M.M., Domozych A., Siwiec T., Tytkowska M., Świątkowski A. (2020): Effect of lead(II) presence on sorption of 4-chlorophenol on synthetic activated carbon <i>Desalination and Water Treatment</i>, 186, 247-257, doi: 10.5004/dwt.2020.25375 5. Reczek L. (2019): Modele opisujące kinetykę procesu sorpcji ołowiu(II) na syntetycznym materiale węglowym”, Wydawnictwo SGGW, Warszawa, ISBN 978-83-7583-869-5 6. Tytkowska M., Michel M. M. Michel, Reczek L., Siwiec T. (2019): Sorption of Ni(II) on surface of bed grains used in iron and manganese removal filters <i>Water Science and Technology Water Supply</i> 19(3), 815-822 7. Michel M., Reczek L., Trach Y. (2018): Possibilities of using malaphyre in water treatment technology Bulletin National University of Water and Environmental Engineering 2(82), 200-209 8. Trach Y., Kosinov V.P, Melnychuk H.V., Michel M., Reczek L. (2018): Using saponit in water treatment technology for drinking Bulletin National University of Water and Environmental Engineering 2(82), 210-221

Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	-
Project/grants achievements (from the last 10 years)	<ul style="list-style-type: none"> · Expertise (2020/2021) Michel M., Reczek L., Granops M., Tytkowska-Owerko M. „The concept for the modernization of the technological system of the Water Treatment Plant in Teresin” nr 6/IIŚ/SGGW/2020 · Expertise (2019) Reczek L., Siwiec T., Michel M. M., Tytkowska M. „ The concept for the modernization of the Water Treatment Plant in Roztropna” CliTT-KZL-027/2019 · Technical project concept (2017/2018) Michel M. M., Reczek L., Rudnicki P., Siwiec T., Koziol A., Granops M., Morawski D., Żubrowska-Sudoł M. „Technical advice in the field of developing models of experimental stations BN-KZL 506-01-052500-P00438-99 · Expertise (2016) Siwiec T., Reczek L., Michel M. M. „Expertise on the impact of sewage from the Synthos-Gdańsk production plant, including sodium sulphate, on the corrosivity of treated sewage discharged through the waste water system of the Sewage Treatment Plant in Gdańsk, on the section from chamber K1 behind PS Bogatka to the discharge diffusers in the Gdańsk Bay” BN-KZL-101/2016 · Expertise (2016) Siwiec T., Reczek L., Michel M. M. „Expertise on the effectiveness of manganese removal at the water treatment in Retki, Zduny commune” BN-KZL-108/2016 · Expertise (2015) Michel M. M., Reczek L., Siwiec T., Hewelke P., Hewelke E. „Expertise on water management at the Döhler Plant Sp. z o.o. and the impact of treated wastewater on the water quality of the Dylewka River” BN-KZL-57/2015 · Expertise (2014) Reczek L., Michel M. M., Siwiec T., Nowak P. „Development of a technology for removing iron, manganese and nickel from water in Seroczyn water treatment plant” BN-KZL-10/2014
Topic – research problem – for which the candidate supervisor seeks a doctoral student	<ul style="list-style-type: none"> · Research topics in the field of technological processes of water and wastewater treatment, particularly the sorption process on active carbons and mineral sorbents. · Research topics related to water recovery - a solution for an industrial plant.
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