

Candidate supervisor's information summary form
maximum 2 pages – it should be a summary of most important achievements

Name and surname, degree, title: dr hab. inż. Lidia Reczek	
Academic discipline/disciplines	environmental engineering, mining and energy
Professional development (degrees and titles) in chronological order	2020 - habilitated PhD engineer of engineering and technical sciences in the discipline of environmental engineering, mining and energetics 2002 - PhD in engineering diploma of technical sciences in the field of environmental engineering,
Most important publications/ patents in the last 3 years (maximum 10)	<ol style="list-style-type: none"> 1. Tytkowska-Owerko M., Reczek L., Michel M. Nickel Removal Accompanying Underground Water Purification from Iron and Manganese <i>Desalination and Water Treatment</i> 2025 DOI: 10.1016/j.dwt.2025.101223 2. Zawadzka B., Siwiec T., Reczek L., Marzec M, Józwiakowski K. (2024): Modeling of Phosphate Sorption Process on the Surface of Rockfos® Material Using Langmuir Isotherms <i>Appl. Sci</i>, 14, 10996. https://doi.org/10.3390/app142310996 3. Michel, M.M.; Azizi, M.; Mirosław-Świątek, D.; Reczek, L.; Cieniek, B.; Sokco, E. (2023): Significance of MnO₂ Type and Solution Parameters in Manganese Removal from Water Solution. <i>Int. J. Mol. Sci.</i> 24, 4448. https://doi.org/10.3390/ijms24054448 4. Procesy technologiczne oczyszczania wody i ścieków. Laboratorium. Lidia Reczek, Magdalena M. Michel, Tadeusz Siwiec. Wydawnictwo SGGW, Warszawa 2022, ISBN 978-83-8237-136-9 5. 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 6. 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 7. 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
Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral procedures) in chronological order	-

<p>Achievements in the area of projects/grants (in the last 5 years)</p>	<ol style="list-style-type: none"> 1. Technical expertise (2024): Reczek L., Siwiec T., Michel M., Azizi M., Koziol A. „Technological research of water treatment in WTP Goleńsko, Chaśno commune in the conditions of putting into operation well no. 2 (new well)” PB 365/2023 2. Technical expertise (2023): Reczek L., Siwiec T., Michel M., Azizi M., Koziol A. „Technological research of water treatment in WTP Czarnów, Leszno commune in conditions of putting the new well into operation” PB 317/2023 3. Technical project concept (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 4. Technical expertise (2019) Reczek L., Siwiec T., Michel M. M., Tytkowska M. „The concept for the modernization of the Water Treatment Plant in Roztropna” CiITT-KZL-027/2019 5. 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 6. Technical 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 wastewater 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 7. Technical 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
<p>Subject area of the research project for which the candidate student is being recruited</p>	<p>Technological processes of water purification, unit technological processes, sorption, sorption kinetics, removal of heavy metals and organic pollutants from aqueous solutions</p>
<p><u>Contact details:</u> Institute E-mail address Telephone number</p>	<p>Institute of Environmental Engineering lidia_reczek@sggw.edu.pl 0 – 22 59 35 162</p>