

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

Name and surname, degree, title: Paweł Ogrodnik, dr hab. inż.	
Scientific discipline/ disciplines	Civil Engineering, Geodesy and Transport
Professional development (degrees and titles) in chronological order	2006 – doctor of technical sciences, construction, Lublin University of Technology 2019 – habilitated doctor of technical sciences, Environmental Engineering, Warsaw University of Technology
Most important publications/ patents in the last 3 years (maximum 10)	<p>1. Ogrodnik P., Rutkowska G., Szulej J., Żółtowski M., Powęzka A., Badyda A. : Cement Mortars with Addition of Fly Ash from Thermal Transformation of Sewage Sludge and Zeolite, <i>Energies</i>, MDPI, vol. 15, nr 4, 2022, s. 1-21, DOI:10.3390/en15041399,</p> <p>2. Winkler J.; Malovcová M.; Adamcová D.; Ogrodnik P.; Pasternak G.; Zumr D.; Kosmala M.; Koda M.; Vaverková D.M.; Significance of Urban Vegetation on Lawns Regarding the Risk of Fire, <i>Sustainability</i> 2023, 13(19), 11027; doi.org/10.3390/su131911027, IF= 3.251</p> <p>3. Ogrodnik P., Powęzka O., Piec R., Zwęgliński T., Smolarkiewicz M., Gromek P., Wróbel R., Węsierski T., Majder-Łopatka M., Wąsik W.: Testing Selected Personal Protection Items of Firefighters in Combined Conditions of Mechanical Loads and Temperatures Occurring during Gas LNG Leaks. <i>Energies</i> 2021,14(22):7698, DOI: 10.3390/en14227698,</p> <p>4. Rutkowska G., Ogrodnik P., Powęzka A., Żółtowski M., Chyliński F., Kaszewska K.: Effect of cenospheres on the properties of plain concrete exposed to elevated temperature, <i>Clean Technologies and Environmental Policy</i>, 2024 doi: 10.1007/s10098-024-03034-3, IF=4,2</p> <p>5. Vaverková M., Winkler J., Uldrijan D., Ogrodnik P., Vespalcová T., Aleksiejuk-Gawron J., Adamcová D., Koda E.: Fire hazard associated with different types of photovoltaic power plants: Effect of vegetation management, <i>Renewable and Sustainable Energy Reviews</i>, 2022/7/1, doi: https://doi.org/10.1016/j.rser.2022.112491, IF= 17,42</p> <p>6. Rutkowska G., Ogrodnik P., Żółtowski M., Powęzka A., Kucharski M., Krejsa M.: Fly Ash from the Thermal Transformation of Sewage Sludge as an Additive to Concrete Resistant to Environmental Influences in Communication</p>

	Tunnels, Applied Sciences-Basel, MDPI, vol. 12, nr 4, 2022, s. 1-20, DOI:10.3390/app12041802, IF=2,679
Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral programmes/procedures) in chronological order	<p><u>Completed Doctoral Courses</u></p> <p>Aleksandra Powązka: "Analysis of the possibility of using heat-resistant glass cullet as an aggregate in concrete composites resistant to high temperatures" - 2022</p> <p><u>Open Doctoral Conducts</u></p> <p>Jacek Atlas: ""Use of technical fabrics to protect wooden structural elements in fire conditions" - Planned defense 2026</p>
Achievements in the area of projects/grants (in the last 5 years)	<p>2017-2020 The project is co-financed by the European Union under the action 1.1 „B-R projects of enterprises”, Intelligent Development Operational Program 2014-2020 co-financed by the European Regional Development Fund entitled „Development of an innovative technology of fire-resistant FENIX® aluminum joinery systems and facades for internal and external applications”. POIR.01.01.01-00-00071/16 – Main constructor</p> <p>2018-2023 B-R project financed by (NCBiR) entitled „A training simulator in the use of technical fire protection systems supporting the evacuation of people from buildings”. Contract number: DOB-BIO9/16/01/2018 – Project manager</p>
Subject area of the research project for which the candidate student is being recruited	<ol style="list-style-type: none"> 1. The use of recycled additives and admixtures in the production of mortars and concretes. 2. Problems of fire safety engineering of buildings and structures. 3. The influence of fire conditions on building structures.
<p><u>Contact details:</u></p> <p>Institute</p> <p>E-mail address</p> <p>Tel.</p>	<p>Institute of Civil Engineering</p> <p>pawel_ogrodnik@sggw.edu.pl</p> <p>795995970</p>