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.	
Discipline/ disciplines of science	Civil Engineering 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/patens over the last 3 years (maximum 10)	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, Energies, MDPI, vol. 15, nr 4, 2022, s. 1-21, DOI:10.3390/en15041399, 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, Sustainability 2021, 13(19), 11027; doi.org/10.3390/su131911027, IF= 3.251 3. Ogrodnik P., Powęzka O., Piec R., Zwęgliński T., Smolarkiewicz M., Gromek P., Wróbel R., Węsierski T., Majder-Łopatka M., Wąskik W.: Testing Selected Personal Protection Items of Firefighters in Combined Conditions of Mechanical Loads and Temperatures Occurring during Gas LNG Leaks. Energies 2021,14(22):7698, DOI: 10.3390/en14227698, 4. Powęzka, A.; Ogrodnik, P.; Szulej, J.; Pecio, M. Glass cullet as additive to new sustainable composites based on alumina binder, Energies 2021, 14 (12) 3423, 1-22, doi: 10.3390/en14123423, IF=3.004 5. Powęzka, A.; Szulej, J.; Ogrodnik, P. The effect of high temperatures on the impact strength of concrete based on recycled aggregate from heat-resistant cullet. Materials 2020, 13 (465), 1-21, doi: 10.3390/ma13020465, IF=3.623 6. Powęzka, A.; Szulej, J.; Ogrodnik, P. Reuse of heat resistant glass cullet in cement composites subjected to thermal load. Materials 2020, 13 (4434), 1-21, doi: 10.3390/ma13194434, IF=3.623 7. Powęzka, A.; Ogrodnik, P.; Biedugnis, S; Szulej, J. Assessment of selected parameters of concrete composite containing recyclate obtained from fire-resistant cullet, Journal of Physics: Conference Series, 3rd Forum of Alternative Fuels, Zawiercie, 20-22 November 2019, 1398 (2019/012011), 1-7, doi: 10.1088/1742-6569/1398/1/012011, IF=0.601 8. Rutkowska G., Ogrodnik, P., Žółtowski 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 Tunnels, App
Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	Open Doctoral thesis  Aleksandra Powęzka: "Analysis of the possibility of using heat – resistant glass cullet as aggregate in concrete composites resistant to high temperatures" – Planned Defense 2022 r.  Dariusz Baranowski: "Analysis of the usefulness of metalographic tests in fire investigation" – Planned Defense 2023 r.
Project/grants achievements (from the last 10 years)	2012-2015 B-R project financed by (NCBiR) entitled "Advanced ICT technologies supporting the design of a recuse system at the following levels: commune, poviat, voivodship". Contract number: DOBR/0015/R/ID1/2012/03 – Main constructor  2013-2016 B-R project financed by (NCBiR) entitled "Development of a methodology for continuous supervision of the operation of selected areas of firefaitingequipment in terms of

	relability and effectiveness". Contract number: DOBR-BIO4/051/13087/2013 – <b>Head of the Research Team</b>
	<b>2015-2018</b> B-R project financed by (NCBiR) entitled "Development of an innovative safety management system for historic buildings in urbanized city centers". Contract number: DOB-BIO7/08/01/2015 – <b>Project manager</b>
	<b>2017-2020</b> 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.01.01.00-00071/16 – <b>Main constructor</b>
	<b>2018-2023</b> 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 – <b>Project manager</b>
Topic – research problem – for which the candidate supervisor seeks a doctoral student	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.
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