Candidate supervisor's information summary form

Name and surname, degree, title: Ph.D. D.Sc. eng. Grzegorz Kowaluk, associate professor		
Discipline/ disciplines of science	Forestry	
Professional development (degrees and titles) in chronological order	Master engineer of wood technology (2001) Doctor of forest sciences in field of wood technology (2006) Doctor (habilitation) of forest sciences in field of wood technology (2015)	
Most important publications/patens over the last 3 years (maximum 10)	 Sala C.M., Robles E., Kowaluk G. (2020): Influence of the Addition of Spruce Fibers to Industrial-Type High-Density Fiberboards Produced with Recycled Fibers. Waste and Biomass Valorization, (), 1-10; https://doi:10.1007/s12649-020-01250-8 Sala C.M., Robles E., Kowaluk G. (2020): Influence of Adding Offcuts and Trims with a Recycling Approach on the Properties of High-Density Fibrous Composites. Polymers 2020, 12, 1327; https://doi.10.3390/polym12061327 Auriga R., Gumowska A., Szymanowski K., Wronka A., Robles E., Ocipka P., Kowaluk G. (2020): Performance properties of plywood composites reinforced with carbon fibers. Composite Structures, vol. 248, 112533; https://doi.org/10.1016/j.compstruct.2020.112533 Sala C. M., Robles E., Gumowska A., Wronka A., Kowaluk G. (2020): Influence of Moisture Content on the Mechanical Properties of Selected Wood-based Composites. BioResources 15(3), 5503-5513; https://doi.org/10.15376/biores.15.3.5503-5513 Kowaluk G., Wronka A. (2020). "Bonding of sawmill birch wood with selected biopolymer-based glues," Annals of WULS, Forestry and Wood Technology, 109(109), 32–36. DOI: 10.5604/01.3001.0014.3092 Borysiuk P., Burawska-Kupniewska I., Auriga R., Kowaluk G., Kozakiewicz P., Zbieć M. (2019): Influence of Layered Structure of Composite Timber Floor Boards on Their Hardness. Drvna Industrija, Vol. 70 No. 4, 2019; p. 399-406; https://doi.org/10.5552/drvind.2019.1856 Gumowska A., Kowaluk G., Labidi J., Robles E. (2019): Barrier properties of cellulose nanofibers film as an external layer of particleboard. Clean Technologies and Environmental Policy; https://doi.org/10.1007/s10098-019-01760-7 Kowaluk G., Szymanowski K., Kozłowski P., Kukuła W., Sala C., Robles E., Czarniak P. (2019): Functional Assessment of Particleboards Made of Apple and Plum Orchard Pruning. Waste and Biomass Valorization, 1 - 10, https://doi.org/10.1007/s12649-018-00568-8 Kowaluk G., Gumowska A. (2021	
	 application no. P.437162) 10. Kowaluk G., Gumowska A. (2019): A method of pressing layered materials, especially lignocellulosic (patent admitted, patent no. 	

	Pat.234881)
Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	 Doctoral programmes opened 1. 09.04.2019 - Influence of selected material and process factors on the properties of dry-formed fibreboards
Project/grants achievements (from the last 10 years)	 Sustainable production of Cellulose-based products and additives to be used in SMEs and rural areas; Horyzont 2020; H2020- MSCA-RISE-2020; agreement no. 101007733; 2021 – 2025; manager of Polish part Elaboration of layered lignocellulosic composites with new biobased adhesives; NAWA; agreement no. PPN/BFR/2020/1/00042/U/00001; 2021 – 2022; manager of Polish part Improving process and material efficiency in the sawmill industry; BIOSTRTAEG/344303/14/NCBR/2018; 2017 – 2021; main executor of WP6 Increasing the efficiency of using wood raw material in production processes in industry; BIOSTRATEG2/298950/1/NCBR/2016; 2016 – 2018; main executor of WP1 Ionic liquids in innovative technologies related to the processing of lignocellulosic raw materials; POIG, UDA-POIG 01.03.01-30- 074/08-00; 2009 – 2012; executor
Topic – research problem – for which the candidate supervisor seeks a doctoral student	 Lignocellulosic composites with defined end-of-life scenarios Possibilities and limitations of cascading use of wood and wood- based composites There will be opportunity to complete the thesis under co-supervision (including international)
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