Candidate supervisor's information summary form

Name and surname, degree, title: Andrzej Antczak, BEng, PhD, DSc		
Discipline/ disciplines of science	Forestry sciences	
Professional development (degrees and titles) in chronological order	Master engineer of chemistry (2005, Faculty of Chemistry Warsaw University of Technology, chemical technology course, speciality: technology of high-energetic materials and safety of chemical processes); Doctor engineer of forestry sciences (2010, Faculty of Wood Technology Warsaw University of Life Sciences); Postdoctoral engineer of forestry sciences (2019, Faculty of Wood Technology Warsaw University of Life Sciences).	
Most important publications/patens over the last 3 years (maximum 10)	 Balan R., Antczak A., Brethauer S., Zielenkiewicz T., Studer M.H., 2020: "Steam explosion pretreatment of beechwood. Part 1: comparison of the enzymatic hydrolysis of washed solids and whole pretreatment slurry at different solid loadings". Energies, 13(14), 1-15. Brethauer S., Antczak A., Balan R., Zielenkiewicz T., Studer M.H., 2020: "Steam explosion petreatment of beechwood. Part 2: quantification of cellulase inhibitors and their effect on Avicel hydrolysis". Energies, 13(14), 1-17. Antczak A., Świerkosz R., Szeniawski M., Marchwicka M., Akus- Szylberg F., Przybysz P., Zawadzki J., 2019: "The comparison of acid and enzymatic hydrolysis of pulp obtained from poplar wood (Populus sp.) by the Kraft method". Drewno, 63(203), 1-14. Antczak A., Marchwicka M., Szadkowski J., Drożdżek M., Gawron J., Radomski, A., Zawadzki J., 2018: "Sugars yield obtained after acid and enzymatic hydrolysis of fast-growing poplar wood species". BioResources, 13(4), 8629-8645. Waliszewska H., Zborowska M., Waliszewska B., Borysiak S., Antczak A., Czekała W., 2018: "Transformation of Miscanthus and Sorghum cellulose during methane fermentation". Cellulose, 25(2), 1207-1216. 	
Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	Marchwicka M. "The influence of selected methods of poplar wood processing on the efficiency of enzymatic hydrolysis", Institute of Wood Sciences and Furniture, Warsaw University of Life Sciences, defended doctoral dissertation on November 27, 2020. Akus-Szylberg F. "The study of the impact of selected pre-treatment methods on the chemical composition and efficiency of enzymatic hydrolysis of poplar wood and corn stover", Institute of Wood Sciences and Furniture, Warsaw University of Life Sciences, opening of the doctoral dissertation 2018.	
Project/grants achievements (from the	Research project of WULS "The development of selected modern methods of wood analysis" – head – 2011	

last 10 years)	Research project of WULS "Elaboration of chemical microanalysis methods of lignocellulosic materials" – head – 2012
	Research project of WULS "The study of physico-chemical properties of tropical wood" – researcher – 2013
	Research project of WULS "The possibilities of using birch wood (Betula L.) in modern technologies used in wood science" – researcher – 2014
	Research project of the National Centre for Research and Development "A program to improve the level of the didactic approach to the question of how to obtain raw plant materials for the purposes of energy production in the context of the Europe 2020 Strategy objectives" – researcher – 2014/2015
	Research project of the National Centre for Research and Development "The use of poplar lines with increased potential of biomass growth and improved chemical composition of wood in technology of paper production and biofuels" PBS1/A8/16/2013 – researcher – 2013/2016
	Research project of the National Centre for Research and Development "Intelligent farming and cultivation systems for wheat, maize and poplars for optimized production, biomass, biofuels and modified wood" BIOSTRATEG2/298241/10/NCBR/2016 – researcher – 2016/2019
	Research project of the National Centre for Research and Development "Technologies of using agricultural by-products" PASZA PRO, POIR.01.01.01-00-0224/19-00 – researcher – 2019/2022
Topic – research problem – for which the candidate supervisor seeks a doctoral student	Study of pretreatment, enzymatic hydrolysis and fermentation processes towards the production of bioethanol from wood and other lignocellulosic biomass
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