

Candidate supervisor's information summary form

Name and surname, degree, title: Prof. D.Sc. Krzysztof Krajewski, full professor	
Discipline/ disciplines of science	Forestry
Professional development (degrees and titles) in chronological order	<p>Master engineer of forestry (1982)</p> <p>Doctor of forest sciences in field of wood technology (1991)</p> <p>Doctor (habilitation) of forest sciences in field of wood technology (1999)</p> <p>Professor of forestry sciences (2005)</p>
Most important publications/patens over the last 3 years (maximum 10)	<p>Betlej Izabela, Antczak Andrzej, Szadkowski Jan, Drożdżek Michał, Krajewski Krzysztof, Radomski Andrzej, Zawadzki Janusz, Borysiak Sławomir: Evaluation of the Hydrolysis Efficiency of Bacterial Cellulose Gel Film after the Liquid Hot Water and Steam Explosion Pretreatments, <i>Polymers</i>, vol. 14, nr 10, 2022, p. 1-11, DOI:10.3390/polym14102032, 100 punktów, IF(2,935)</p> <p>Borysiuk Piotr, Krajewski Krzysztof, Auriga Alicja, Auriga Radosław, Betlej Izabela, Rybak Katarzyna, Nowacka Małgorzata, Boruszewski Piotr: PLA Biocomposites: Evaluation of Resistance to Mold, <i>Polymers</i>, vol. 14, nr 1, 2022, p. 1-12, DOI:10.3390/polym14010157, 100 punktów, IF(2,935)</p> <p>Betlej Izabela, Zakaria Sarani, Krajewski Krzysztof, Boruszewski Piotr: Bacterial Cellulose - Properties and Its Potential Application (Bakteria Selulosa - Sifat dan Keupayaan Aplikasi), <i>Sains Malaysiana</i>, vol. 50, nr 2, 2021, p. 493-505, DOI:10.17576/jsm-2021-5002-20, 40 punktów, IF(0,643)</p> <p>Betlej Izabela, Andres Bogusław, Szadkowska Dominika, Krajewski Krzysztof, Aleksandra Ościłowska: Fungicidal Properties of the Medium from SCOBY Microorganism Cultivation in Saturated Wood against <i>Coniophora puteana</i> Fungus, <i>Bioresources</i>, vol. 16, nr 1, 2021, p. 1287-1295, DOI:10.15376/biores.16.1.1287-1295, 100 punktów, IF(1,409)</p> <p>Betlej Izabela, Boruszewski Piotr, Dubis Damian, Wilkowski Jacek, Krajewski Krzysztof, Zawadzki Janusz: Influence of SCOBY Microorganisms' Cultivation Conditions on the Synthesis Efficiency and Selected Qualities of Bacterial Cellulose, <i>Bioresources</i>, vol. 16, nr 3, 2021, p. 6147-6158, DOI:10.15376/biores.16.3.6147-6158, 100 punktów, IF(1,409)</p> <p>Betlej Izabela, Salerno-Kochan Renata, Jankowska Agnieszka, Krajewski Krzysztof, Wilkowski Jacek, Rybak Katarzyna, Nowacka Małgorzata, Boruszewski Piotr: The Impact of the Mechanical Modification of Bacterial Cellulose Films on Selected Quality Parameters, <i>Coatings</i>, vol. 11, nr 11, 2021, p. 1-12, DOI:10.3390/coatings11111275, 100 punktów, IF(2,33)</p> <p>Betlej Izabela, Andres Bogusław, Krajewski Krzysztof: Evaluation of Fungicidal Effects of Post-culture Medium of Selected Mold Fungi and Bacteria in Relation to Basidiomycetes Fungi, Causing Wood Destruction, <i>Bioresources</i>, vol. 15, nr 2, 2020, p. 2471-2482,</p>

	DOI:10.15376/biores.15.2.2471-2482, 100 punktów, IF(1,409)
Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	<p>Defended doctoral dissertations</p> <p>Bogusław Andres (2004): Influence of <i>Heterobasidion annosum</i> Fr. Bref. on selected properties of the Scots pine wood (<i>Pinus sylvestris</i> L.).</p> <p>Izabela Betlej (2011): The influence of copper and boron compounds on metabolism wood destroying fungus <i>Trametes versicolor</i> (L. ex Fr.) Pil.</p> <p>Doctoral programmes opened:</p> <p>Bartłomiej Rębkowski (2017): Interaction of selected physical environmental factors in the degradation process of aspen poplar wood (<i>Populus tremula</i> L.).</p> <p>Agnieszka Mielnik (2019): The influence of mold fungi on some physical, mechanical and chemical properties of common ash wood (<i>Fraxinus Excelsior</i> L.).</p>
Project/grants achievements (from the last 10 years)	<p>EOG Nr 8m/II/2013/PL09. Documentation and monitoring in the management of wooden construction facilities at the Agricultural Museum Fr. Krzysztof Kluk in Ciechanowiec and the Museum. Promoting cultural and artistic diversity within the European cultural heritage.(2014-2015 - contractor).</p> <p>BIOSTRATEG 2 - NCBR. Increasing the efficiency of using wood raw material in industrial production processes (2018 – contractor).</p> <p>WoodINN - NCBiR. Production of innovative furniture based on modern chipboard: (2018 – contractor).</p> <p>BIOSTRATEG 3 - NCBR. Improving process and material efficiency in the sawmill industry. BIOSTRATEG 3 (20198 – contractor).</p>
Topic – research problem – for which the candidate supervisor seeks a doctoral student	Durability of wood and wood-based materials, protection and conservation of wood and historic buildings, wood pathology, physical, chemical and biological methods of wood protection, bioremediation of the environment in the area of contamination with wood preservatives, biocides of wood preservatives and new products for wood preservation and protection
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