

Summary Specification of Scientific Accomplishments of a Thesis Supervisor Candidate
maximum 2 pages - it should be a synthesis of the most important elements of accomplishments

Name and surname, degree, scientific title: Aleksander Lisowski, PhD, DSc, Prof.	
Scientific discipline/s	Mechanical Engineering
Professional development (scientific degrees and titles) chronologically	<p>1989 – PhD, Faculty of Agricultural and Forestry Engineering, WULS.</p> <p>2000 – DSc, Institute for Building, Mechanization and Electrification in Agriculture, Warsaw.</p> <p>2007 – Prof.</p>
Most important publications/patents from the last 3 years (max. 10)	<p>Lisowski A., Wójcik J., Klonowski J., Sypuła M., Chlebowski J., Kostyra K., Nowakowski T., Strużyk A., Świętochowski A., Dąbrowska M., Mieszkalski L., Piątek M. Compaction of chopped material in a mini silo. <i>Biomass and Bioenergy</i>, 2020, 139, 100 p., IF=5,061.</p> <p>Lisowski A., Matkowski P., Mieszkalski L., Mruk R., Stasiak M., Piątek M., Świętochowski A., Dąbrowska M., Obstawski P., Bakoń T., Karpio K. Influence of fraction particle size of pure straw and blends of straw with calcium carbonate or cassava starch on pelletising process and pellet. <i>Materials</i>. 2020, 13, 4623; 140 p, IF=3,623.</p> <p>Matkowski P., Lisowski A., Świętochowski A. The effect of compacted dose of pure straw and blends of straw with calcium carbonate or cassava starch on pelletising process and pellet quality. <i>Journal of Cleaner Production</i>. 2020, 277, 1-12, 140p, IF=9,297.</p> <p>Piątek M., Lisowski A., Dąbrowska M. The effects of solid lignin on the anaerobic digestion of microcrystalline cellulose and application of smoothing splines for extended data analysis of its inhibitory effects. <i>Bioresource Technology</i>. 2021, 320, 1-7, 140 p., IF=9,642.</p> <p>Lisowski A., Świętochowski A., Dąbrowska M., Klonowski J., Nowakowski T., Chlebowski J., Tryskuć P., Parys T., Ferre S., Roberge M. Effect of Stone Impacts on Various Ground Engaging Tools (Flexible/Stiff Tines and Coulter): Part. <i>Materials</i>. 2022, 15, 1568: 1-23; 140p, IF=3,623.</p> <p>Lisowski A., Świętochowski A., Dąbrowska M., Klonowski J., Nowakowski T., Chlebowski J., Tryskuć P., Parys T., Ferre S., Roberge M. Kinetics and dynamics of the stiff and flexible tines with the duckfoot and the coulter after impact with stones embedded in compacted soil: Part II. <i>Materials</i>. 2022, 15, 1351: 1-27; 140p, IF=3,623</p> <p>Gruz Ł., Joński M., Mieszkalski L., Lisowski A. Patent B1 238547 received 06.09.2021: Rotating large fruit transfer unit and large fruit processing unit.</p>

	<p>Mieszkalski L., Lisowski A., Klonowski J., Tucki K. Patent B1 238709 received 27.09.2021: Rotary harrow rotor with swiveling blends.</p> <p>Mieszkalski L., Lisowski A. Patent B1 238708 received 27.09.2021: Weeder section for inter-row work with curvilinear rows of plants.</p> <p>Kęska P., Mieszkalski L., Lisowski A., Tucki K. Patent B1 240036 received 07.02.2022: Pumpkin fruit slicing machine.</p>
Experience in work with PhD students (defended dissertations, initiated dissertation procedures), chronologically	<p>Niewęglowski Krzysztof, defense 27.06.2006</p> <p>Wardecki Piotr, defense 21.11.2006</p> <p>Motyl Krzysztof, defense 18.11.2008</p> <p>Świątek Krzysztof, defense 23.11.2010</p> <p>Świętochowski Adam, defense 01.04.2014</p> <p>Dąbrowska Magdalena, defense 03.11.2015</p> <p>Stasiak Patryk, defense 03.11.2015</p> <p>Piątek Michał, defense 29.06.2021</p> <p>Matkowski Patryk, defense 29.09.2021</p> <p>Tryjarski Paweł, supervisor 17.12.2019</p>
Project/grant accomplishments (from the last 10 years)	<p>Pressure agglomeration of biomass and physical properties of fuels formed from energy crops, NSC, N N313 126439, 2010-2013, thesis grant, manager.</p> <p>The use of Capacitive Computed Tomography to monitoring the flow of plant mass flow, NCRD, PBS2/A8/18/2013, 2013-2016, research grant, manager (Partner).</p>
Theme scope - research problem - for the solving of which the PhD student is sought	<p>Conversion of biomass into biogas or solid fuels. Physical relations of the working element - soil. Modeling of physical processes of separation and densification of biological materials.</p>
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