

Candidate supervisor's information summary form
maximum 2 pages – it should be a summary of most important achievements

Dr hab. Łukasz Uzarowicz	
Discipline/ disciplines of science	Agriculture and horticulture
Professional development (degrees and titles) in chronological order	<ul style="list-style-type: none"> • 2019 – Habilitation in agriculture/agronomy, Warsaw University of Life Sciences - SGGW • 2009 - Ph.D., Earth sciences (area of Geography, specialization: Soil Science), Jagiellonian University in Krakow • 2007 - M.Sc., Geology, Jagiellonian University in Krakow • 2005 - M.Sc., Geography, Jagiellonian University in Krakow
Most important publications/patens over the last 3 years (maximum 10)	<ul style="list-style-type: none"> • Uzarowicz, Ł., Górka-Kostrubiec, B., Dudzisz, K., Rachwał, M., Zagórski, Z., 2021. Magnetic characterization and iron oxide transformations in Technosols developed from thermal power station ash. <i>Catena</i>, 202, 105292. • Kruczkowska B., Błaszkiwicz M., Jonczak J., Uzarowicz Ł., Moska P., Brauer A., Bonk A., Słowiński M., 2020. The Late Glacial pedogenesis interrupted by aeolian activity in Central Poland – Records from the Lake Gościąg catchment. <i>Catena</i>, 185, 104286. • Stępniewska H., Uzarowicz Ł., Błońska E., Kwasowski W., Słodczyk Z., Gałka D., Hebda A., 2020. Fungal abundance and diversity as influenced by properties of Technosols developed from mine wastes containing iron sulphides: A case study from abandoned iron sulphide and uranium mine in Rudki, south-central Poland. <i>Applied Soil Ecology</i>, 145C, 103349. • Jonczak J., Florek W., Kruczkowska B., Gadziszewska J., Niska M., Uzarowicz Ł., 2019. Late Vistulian and Holocene development of litho-morpho-pedogenic processes in the southern Baltic coastal zone: A case study from Dębina, northern Poland. <i>Geoderma</i>, 348: 21-36. • Stachnik Ł., Yde J.C., Nawrot A., Uzarowicz Ł., Łepkowska E., Kozak K., 2019. Aluminium in glacial meltwater demonstrates an association with nutrient export (Werenskiöldbreen, Svalbard). <i>Hydrological Processes</i>: 1–20. • Šimanský V., Juriga M., Jonczak J., Uzarowicz Ł., Stępień W., 2019. How relationships between soil organic matter parameters and soil structure characteristics are affected by the long-term fertilization of a sandy soil. <i>Geoderma</i>, 342: 75-84. • Šimanský V., Igaz D., Horák J., Šurda P., Kolenčík M., Buchkina N.P., Uzarowicz L., Juriga M., Šrank D., 2018. Response of soil organic matter and water-stable aggregates to different biochar treatments including nitrogen fertilization. <i>Journal of Hydrology and Hydromechanics</i>, 66(4), 429-436. • Oktaba L., Odrobińska D., Uzarowicz Ł., 2018. The impact of different land uses in urban area on humus quality. <i>Journal of Soils and</i>

	<p>Sediments, 18(8), 2823-2832.</p> <ul style="list-style-type: none"> • Uzarowicz Ł., Skiba M., Leue M., Zagórski Z., Gaśniński A., Trzciński J., 2018. Technogenic soils (Technosols) developed from fly ash and bottom ash from thermal power stations combusting bituminous coal and lignite. Part II. Mineral transformations and soil evolution. <i>Catena</i> in press. • Uzarowicz Ł., Zagórski Z., Mendak E., Bartmiński P., Szara E., Kondras M., Oktaba L., Turek A., Rogoziński R., 2017. Technogenic soils (Technosols) developed from fly ash and bottom ash from thermal power stations combusting bituminous coal and lignite. Part I. Properties, classification, and indicators of early pedogenesis. <i>Catena</i>, 157C: 75-89.
<p>Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order</p>	<ul style="list-style-type: none"> • 2018, assistant supervisor in the doctoral dissertation, MA Maciej Swęd, Institute of Geology, Adam Mickiewicz University in Poznań, PhD thesis "Geochemical and mineralogical study of weathering zones from areas of exploitation of Polish deposits of zinc, lead and copper (in the Silesia-Cracow and Świętokrzyskie areas)". • 2017, member of the examination committee, doctoral dissertation "Interaction between soils, mining wastes and the dynamics of supergene mineral phases in metal mining environments of SE Spain", PhD student: José Matías Peñas Castejón, Universidad Politecnica de Cartagena, Spain
<p>Project/grants achievements (from the last 10 years)</p>	<ul style="list-style-type: none"> • Research project manager, no. 2011/03/D/ST10/04599, "Determination of the dynamics and mechanisms of mineral and chemical transformations in Technosols developed at ash landfills from coal power plants"; project financed by the National Science Center, SONATA 2, 2012-2016. • Research project manager, no. NN305325133, "Impact of sulphide minerals on the properties and mineral composition of soils in mine heaps"; project financed by the Ministry of Science and Higher Education, 2007-2009.
<p>Topic – research problem – for which the candidate supervisor seeks a doctoral student</p>	<ul style="list-style-type: none"> • Geochemical and mineralogical characteristics of technogenic soils (Spolic Technosols) developed at mine and industrial waste dumps • Mobilization of trace elements in the soil-plant system in technogenic soils (Spolic Technosols) on mine and industrial waste dumps
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