

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

Name and surname, degree, title: dr hab. Tomasz Sosulski	
Discipline/ disciplines of science	Agriculture and horticulture
Professional development (degrees and titles) in chronological order	<ul style="list-style-type: none"> • 2018 – Habilitation in agriculture/agronomy, Warsaw University of Life Sciences – SGGW • 2002 - PhD of agricultural sciences in the scope of Agronomy • 1994 – MSc, Warsaw University of Life Sciences - SGGW
Most important publications/patens over the last 3 years (maximum 10)	<ol style="list-style-type: none"> 1. Sosulski T., Szymańska M., Szara E., Sulewski P. 2021. Soil Respiration under 90 year-old rye monoculture and crop rotation in the climate conditions of central Poland. <i>Agronomy</i>. 11 (1): 1-16. 2. Sosulski T., Stępień W., Wąs A., Szymańska M. 2020. N₂O and CO₂ emissions from bare soil: effect of fertilizer management. <i>Agriculture</i>. 10, (12): 1-14. 3. Sosulski T., Szymańska M., Szara E. 2020. CO₂ emissions from soil under fodder maize cultivation. <i>Agronomy</i>. 10 (8):1-13. 4. Sosulski T., Szara E., Szymańska M., Stępień W., Rutkowska B., Szulc W. 2019. Soil N₂O emissions under conventional tillage conditions and from forest soil. <i>Soil Tillage Research</i>. 190: 86-91. 5. Rutkowska B., Szulc W., Sosulski T., Skowrońska M., Szczepaniak J. 2018. Impact of reduced tillage on CO₂ emission from soil under maize cultivation. <i>Soil Tillage Research</i>. 180: 21-28. 6. Sosulski T., Szymańska M., Szara E. 2017. Ocena możliwości redukcji emisji N₂O z gleb uprawnych Polski. <i>Soil Science Annual</i>. 68 (1): 55-64. 7. Sosulski T., Szara E., Szymańska M., Stępień W. 2017. N₂O emission and N and C leaching from the soil in relation to long-term and current mineral and organic fertilization – a laboratory study. <i>Plant Soil Environment</i>. 63 (3): 97–104. 8. Sosulski T., Szara E., Stępień W., Szymańska M. 2016. Impact of liming management on N₂O emissions from arable soils in three long-term fertilization experiments in Central Poland. <i>Fresenius Environmental Bulletin</i>. 25 (12a): 6111– 6119.

	<p>9. Sosulski T., Szara E., Stępień W., Szymańska M., Borowska-Komenda M. 2016. Carbon and nitrogen leaching in Long-term experiments and DOC/N-NO₃⁻ ratio in drainage water as an indicator of denitrification potential in different fertilization and crop rotation systems. <i>Fresenius Environmental Bulletin</i>. 25 (8): 2813-2814.</p> <p>10. Sosulski T., Szara E., Stępień W., Rutkowska B. 2015. The influence of mineral fertilization and legumes cultivation on the N₂O soil emissions. <i>Plant Soil Environment</i>. 61 (12): 529–536.</p>
<p>Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order</p>	<p>2020, assistant supervisor in the doctoral dissertation, Msc Tomasz Niedziński, Warsaw University of Life Sciences - SGGW, PhD thesis ““Influence of a deep mineral fertilization system on the yield and quality of potatoes””.</p>
<p>Project/grants achievements (from the last 10 years)</p>	<ul style="list-style-type: none"> • 6 P04G B0718 "Losses of unused fertilizer nitrogen in selected soil and agrotechnical conditions" financed by the Scientific Research Committee in 2000–2002, (main contractor), • 2P06S 02930 "Development and analysis of the characteristics of swelling-shrinkage processes for forecasting the moisture content of peat-muck soils, taking into account changes in their geometry" financed by the Ministry of Science and Higher Education in 2006-2009, • N N 310 089139 "Development of nutrient management models in various conditions of agricultural production" financed by the Ministry of Science and Higher Education in 2009-2012, • N N 305 096539 "Development of a technology for the treatment and management of digestate remaining as a by-product in the production of agricultural biogas", financed by the National Science Center in 2010-2014, • N N305 060640 "Assessment of N₂O emissions from soil and potential soil denitrification properties in various fertilization and plant cultivation systems." financed by the National Center for Research and Development in 2011–2015, • PBS1 / B8 / 4/2012 "Low-input and environmentally safe

	system for fertilization and cultivation of maize" financed by the National Center for Research and Development in 2012–2015,
Topic – research problem – for which the candidate supervisor seeks a doctoral student	<ul style="list-style-type: none"> • Transformation of nitrogen and carbon compounds in the agroecosystem • Environmental effects of fertilization • Waste fertilization management • Pollution of the environment
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