PROF. UPP DR HAB. MONIKA JAKUBUS, ORCID: 0000-0001-8485-5425

GRADUAL DEGREE

2019 Professor position of Poznań University of Life Sciences (PULS), Department of Soil Science and Microbiology

2013 to this day Head of Doctoral Studies, PULS

2010 PhD with habilitation – Poznań University of Life Sciences. Major: Agriculture, Minor: Environmental Protection

2000 PhD degree – Agricultural University of Poznań. Major: Agriculture, Minor: Agrochemistry

1992 MSc degree - Agricultural University of Poznań. Major: Agriculture; Minor: Genetic and Plant Breeding

ACADEMIC EMPLOYMENT

2001 to this day Poznań University of Life Sciences, Department of Soil Science and Microbiology

1992 – 2001 Agricultural University of Poznań, Department of Agricultural Chemistry

ADDITIONAL INFORMATION RELATED TO SCIENTIFIC ACTIVITY

So far, in the course of my research and teaching, I have conducted classes in subjects related to agricultural chemistry, soil science, geochemistry and environmental protection. In addition, I conduct classes for foreign students as part of Erasmus + and English-language master's studies on issues related to the protection of the soil environment and sustainable management of natural resources. During the discussed period of my teaching and research activity, I promoted 2 PhD, 61 MSc and 32 BSc students. The scope of my scientific activity is related to the issues connected to agronomy, environmental protection and management of natural resources, which mainly concern:

- determination the agricultural usefulness of sewage sludge and composts prepared on them in the terms of their fertilizing value and possible pollution of the soil environment with xenobiotics,
- municipal waste management with particular emphasis on the sustainable management of biodegradable wastes,
- assessment of soils and plants in the terms of their nutrient supply in changing environmental conditions subjected to anthropopressure,
- phytotoxicity of heavy metals and methods of remediation of soils contaminated with them.

So far I am the author or co-author of 150 published original papers of international scope. In addition, I am the author of a script (handbook) addressed to students of agronomy and environment protection "*Selected issues in soil science and agricultural chemistry*" (edited in 2007 and updated 2010, 2013 and 2021), the monograph "*Sulphur in the environment*" (2006) and "*Municipal sewage sludge. Genesis - economy* "(2012). I was main contractor in 10 scientific projects. I am ad-hoc reviewer of scientific papers in numerous international scientific journals (about 30 different). I participated in scientific projects carried out in Slovakia (Slovak University of Agriculture in Nitra, 2019) and Spain (Institute for Sustainable Agriculture in Cordoba, 2021).

CHOSEN PUBLICATIONS (LAST 5 YEARS)

1. **Jakubus M.,** W. Michalak – Oparowska **2022**. Valorisation of vermicomposts and composts quality using various parameters. Agriculture, 12, 293.
2. **Jakubus M. 2021**. Distribution of oxyphinic elements in sewage sludge fractions based on manganese and nickel. Journal of Ecological Engineering 22(6), 1–11.
3. **Jakubus M.** Graczyk M. **2021**. The effect of compost and fly ash treatment of contaminated soil on the immobilisation and bioavailability of lead. Agronomy, 11, 1188.
4. **Jakubus M**., Bakinowska E., Tobiasova E. **2021**. Valorisation of sewage sludge humic compounds in the aspect of its application in natural environment. Environment Protection Engineering Vol. 47, No. 1: 67 – 83.
5. **Jakubus M. 2020.** Changes in lead and chromium contents in sewage sludge evaluated using both single extractants and sequential method. Environmental Pollutants and Bioavailability, 32 (1): 87 – 99.
6. **Jakubus M.,** Bakinowska E. **2020.** Varied macronutrient uptake by plants as an effect of different fertilisation schemes evaluated by PCA. Acta Agriculturae Scandinavica, Section B — Soil & Plant Science 70, 1: 56 – 68.
7. Górecki T., **Jakubus M**., Krzyśko M., Wołyński W. **2020**. Application of distance covariance in selection of nutrients during dynamic process of sewage sludge conditioning with bio‑preparation. Waste and Biomass Valorization 11 (8): 4157-4166.
8. **Jakubus M**., Stejskal B. **2020**. Municipal solid waste management systems in Poland and the Czech Republic. A comparative study. Environment Protection Engineering 46, 3: 61-78.
9. Tatuśko N. **Jakubus M. 2019**. Application of biological methods to assess toxicity of soils contaminated with heavy metals and effectiveness of stabilisation processes. Environment Protection Engineering 45, 4: 33-43.
10. **Jakubus M.,** Bakinowska E., Tatuśko N. **2019.** Compost utilisation in a heavy metal immobilisation process evaluated by bioconcentration factors. Journal of Elementology, 24(4):1291 – 1307.
11. **Jakubus M.,** Graczyk M. **2019**. Quantitative changes in sulphur fractions during co-composting of pine bark with green plant material. Polish Journal of Environmental Studies v.28, No.4: 2633-2644.
12. **Jakubus M.**, Graczyk M., Jordanowska J. **2019**. Conventional wastewater purification processes using biopreparation. Pilot study. Fresenius Environmental Bulletin, Vol 28, No 12A:9915-9923.
13. **Jakubus M.,** Bakinowska E. **2018.** Visualization of long-time quantitative changes of microelements in soils amended with sewage sludge compost evaluated with two extraction solutions. Communications in Soil Science and Plant Analysis 49, 11: 1355 – 1369.
14. **Jakubus M**., Bakinowska E., Gałka B. **2018.** The quantitative changes of nutrients in two contrasting soils amended with sewage sludge compost evaluated by various statistical tools. Acta Agriculturae Scandinavica, Section B — Soil & Plant Science 68, 1: 39 – 49.