

dr hab. Agnieszka Baran, prof UR



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Consultation hours: 4

Research interest:

Agnieszka Baran is associate professor at the Department of Agricultural and Environmental Chemistry, specialized on ecotoxicology and environmental chemistry. Her main research focuses on the content, bioavailability and ecotoxicity of trace elements in bottom sediments from freshwater environments and soils. Most her work has been on properties, quality assessment and the possibility of managing the bottom sediments dredged from dam reservoirs. Other topics in her research are chemical properties of food products, agricultural waste utilization and health risk assessment. Currently she is leading the project "Assessment of the bottom sediment organic matter on bioavailability and toxicity of chemical compounds". At the university, she mainly teaches the following courses: Ecotoxicology, Environmental chemistry, Agricultural chemistry, Audit and environmental standards.

Research experience:

Visiting Scholar (uczelnia, okres trwania): **University of Cambridge and Oxford University, England, July-September 2015**

DSc, (Habilitation): 2017, *The use of chemical indicators and bioassays for an assessment of risk associated with the contents, mobility and toxicity of heavy metals in bottom sediments*

PhD (rok, temat): **2009, *The effect of zinc fertilization on yield and chemical composition of maize***

Professional profiles:

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Research Gate: https://www.researchgate.net/profile/Agnieszka_Baran

List of publications: 10 najważniejszych z 5 ostatnich lat

1. **Baran A.** Mierzwa-Hersztek M., Gondek K, Tarnawski M, Szara M., Gorczyca O., Koniarz T. 2019. The influence of the quantity and quality of sediment organic matter on the potential mobility and toxicity of trace elements in bottom sediment. *Environmental Geochemistry and Health* DOI: 10.1007/s10653-019-00359-7
2. **Baran A.**, Tarnawski M, Koniarz T., Szara M. 2019. Content of nutrients, trace elements and ecotoxicity of sediment cores from Rożnów reservoir (Southern Poland). *Environmental Geochemistry and Health Environ Geochem Health*, DOI: 10.1007/s10653-019-00363-x
3. Antonkiewicz J., **Baran A.**, Pełka R., Wisła-Świder A., Nowak E., Konieczka P. 2019. A mixture of cellulose production waste with municipal sewage as new material for an ecological management of wastes. *Ecotoxicology and Environmental Safety* 169 (2019) 607–61
4. Gruszevska-Kossowska A, **Baran A.**, Jasiewicz Cz. 2018. Content and health risk assessment of selected elements in commercially available fish and fish products. *Human and Ecological Risk Assessment: An International Journal* doi.org/10.1080/10807039.2017.1419817
5. Tarnawski M. **Baran A.** 2018. Use of chemical indicators and bioassays in bottom sediment ecological risk assessment. *Archives of Environmental Contamination and Toxicology*, 74(3), 395–407
6. Wieczorek J., **Baran A.**, Mazurek R., Urbański K. Klimkowicz-Pawlas A. 2018. Assessment of the pollution and ecological risk of lead and cadmium in soils. *Environmental Geochemistry and Health* 40(6), 2325–2342
7. **Baran A.**, Gruszecka-Kosowska A., Kołton A., Jasiewicz Cz., Piwowar P. 2018. Content and health risk assessment of selected elements in the Yerba mate (*Ilex paraguariensis*, St. hillaire). *Human and Ecological Risk Assessment: An International Journal* DOI: 10.1080/10807039.2017.1406304
8. **Baran A.**, Wieczorek J., Mazurek R., Urbański K., Klimkowicz-Pawlas A. 2018. Potential ecological risk assessment and predicting zinc accumulation in soils. *Environmental Geochemistry and Health* , 40(1), 435-440
9. **Baran A.**, Mierzwa-Hersztek M., Gondek K., Szara M., Tarnawski M. 2018. Content and composition of organic matter in bottom sediments of Rybnik reservoir - preliminary studies. *Geology, Geophysics & Environment* 44 (3): 309–317
10. Mierzwa-Hersztek M., Gondek K., Klimkowicz-Pawlas A., **Baran A.**, Bajda T. 2018. Sewage sludge biochars management—Ecotoxicity, mobility of heavy metals, and soil microbial biomass. *Environmental Toxicology and Chemistry* doi: 10.1002/etc.4045.