



ACADEMIC TEACHER PROFESSIONAL EXPERIENCE

DOCTORAL SCHOOL OF WROCLAW UNIVERSITY OF SCIENCE AND TECHNOLOGY

1. Basic information

Name, surname:	Weronika Urbańska
Grade / Title:	PhD
Scientific discipline	inżynieria środowiska, górnictwo i energetyka / environmental engineering, mining, and energy
Faculty:	W7 Wydział Inżynierii Środowiska / Faculty of Environmental Engineering
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Link to home page and/or research profiles (Google Scholar, ResearchGate, etc.)	https://www.researchgate.net/profile/Weronika_Urbanska

2. Publication record

Up to 10 most important papers published over the period of previous 10 years.

No.	Description (authors, publication title, journal / conference, DOI)	Publication year
1.	Pietrzyk-Thel P., Osial M., Pregowska A., Abramowicz M., Nguyen T.P., Urbańska W., Giersig M. SPIONs doped with cobalt from the Li-ion battery acid leaching waste as a photocatalyst for tetracycline degradation - synthesis, characterization, DFT studies, and antibiotic treatment. <i>Desalination and Water Treatment</i> , 305, 155-173, 2023. https://doi.org/10.5004/dwt.2023.29795	2023
2.	Urbańska W., Janda A., Osial M., Słowikowski M. Sustainable municipal waste management during the COVID-19 pandemic - a case study of Poland. <i>Resources</i> , 12, 7, art. 76, 2023. https://doi.org/10.3390/resources12070076	2023
3.	Janda A., Urbańska W. Circular textile management – environmental causes, current challenges and the social aspect. <i>Gaz, Woda i Technika Sanitarna</i> . 4, 34-39, 2023. https://doi.org/10.15199/17.2023.4.6	2023
4.	Abramowicz M., Osial M., Urbańska W., Walicki M., Wilczewski S., Pregowska A., Skórczewska K., Jencyk P., Warczak M., Pisarek M., Giersig M. Upcycling of acid-leaching solutions from Li-ion battery waste treatment through the facile synthesis of magnetorheological fluid. <i>Molecules</i> , 28(6), 2558, 2023. https://doi.org/10.3390/molecules28062558	2023
5.	Janda A., Urbańska W. Waste management costs: a case-based study on selected Polish cities. <i>Environment Protection Engineering</i> , 48(4), 67-84, 2022. http://doi.org/10.37190/epe220405	2022
6.	Pregowska A., Osial M., Urbańska W., The application of artificial intelligence in the effective battery life cycle in the closed circular economy model – a perspective. <i>Recycling</i> , 7(6), 81, 2022. https://doi.org/10.3390/recycling7060081	2022
7.	Dąbrowska A., Urbańska W., Warczak M., Osial M., Battery powder as a source of novel Graphene nanocarbons. <i>Physica Status Solidi. B, Basic Solid State Physics</i> , 259(7), 2100558, 2022.	2022



	https://doi.org/10.1002/pssb.202100588	
8.	Warczak M., Osial M., Urbańska W., Pisarek M., Nogala W., Opallo M., Hydrogen peroxide generation catalyzed by battery waste material. <i>Electrochemistry Communications</i> , 136, 107239, 1-6, 2022. https://doi.org/10.1016/j.elecom.2022.107239	2022
9.	Urbańska W., Osial M. Investigation of the physico-chemical properties of the products obtained after mixed inorganic-organic leaching of spent Li-ion batteries. <i>Energies</i> , 13(24), 6732, 2021. https://doi.org/10.3390/en13246732	2021
10.	Urbańska W. Recovery Co, Li and Ni from spent Li-ion batteries by the inorganic and/or organic reducer assisted leaching method. <i>Minerals</i> , 10(6), 555, 2020. https://doi.org/10.3390/min10060555	2020

3. Projects and grants

List of the most important 5 projects/grants with basic description including: title, source(s) of funding, name of the call, role in the project (e.g., principal investigator).

1.	Role in the project (e.g., principal investigator, work package leader, etc.)	Principal investigator
	Project title	Biological recovery of metals from spent lithium-ion batteries using extremophilic microorganisms
	Sources of funding	National Science Centre (NCN)
	Name of the call	MINIATURA 6
	Implementation period	6.08.2022-5.08.2023
2.	Role in the project (e.g., principal investigator, work package leader, etc.)	The contractor
	Project title	Space Volcanic Algae
	Sources of funding	European Space Agency
	Name of the call	Polish activities to fly on ISS (AO-2023-Poland)
	Implementation period	From 2024
3.	Role in the project (e.g., principal investigator, work package leader, etc.)	
	Project title	
	Sources of funding	
	Name of the call	
	Implementation period	
4.	Role in the project (e.g., principal investigator, work package leader, etc.)	
	Project title	
	Sources of funding	
	Name of the call	
	Implementation period	



5.	Role in the project (e.g., principal investigator, work package leader, etc.)	
	Project title	
	Sources of funding	
	Name of the call	
	Implementation period	

4. International experience

Brief description of international cooperation and experience (e.g., research stays, cooperation with foreign entities, coordination or participation in international projects or programmes, keynote speeches and presentations delivered at renowned international conferences, visiting professor stays, invited lectures).

No.	Description	Year(s)
1.	Participation in many international conferences, among others: Urbańska W., Potysz A., Borowska E., Kula-Maximenko M. The recovery of critical raw materials from waste Li-Ion batteries by bioleaching in comparison to chemical leaching - an innovative method based on geomicrobiology. W: Goldschmidt Conference 2022, Honolulu, Hawaje, 10-15 July 2022.	2015-2024
2.	Participation in a two-week training on modern teaching methods and tutoring model during the study visit at University College London (a project of the Ministry of Education and Science "Masters of Didactics" implemented at the Wrocław University of Science and Technology)	2021
3.	Cooperation with foreign Universities, eg. Coventry University (UK), Mendel University (Czech Republic).	2023-2024

5. Experience in teaching doctoral students

Brief description of experience in teaching doctoral students (e.g., courses in doctoral schools and PhD studies, summer/winter schools for doctoral students, tutorials, trainings, etc.).

No.	Description	Year(s)
1.	-	
2.		
3.		

6. List of supervised doctoral students

List of all supervised doctoral students that defended the PhD including: name of the student, dissertation title, year of awarding PhD.

No.	Name, surname	Dissertation title	Year of awarding PhD
1.	-		
2.			
3.			

7. Prizes and awards



The most important national and international prizes and awards related to research, development and teaching activities.

No.	Description	Year
1.	Polish Innovator 2024 Award in the category: Science Personality, Polish Center for the Development of Innovation and Science.	2024
2.	Scientist of the Future 2023 Award in the category: Woman of science who changes the world, Center for Intelligent Development.	2023
3.	Distinction in the Polka 21st Century competition in the Innovation and New Technologies category, Foundation Project PL.	2022
4.	Distinction in the Climate Person of the Year competition, Ministry of Climate and Environment.	2021

8. Other significant achievements

Information on other significant achievements related to research, development and teaching activities.

As a scientist (leader of the scientific team in the R&D project) I worked in a company recycling spent Li-ion batteries, ReBioBat Sp. z o. o. (2022-2023), as well as I was also a substantive expert in a promotional campaign regarding the recovery of raw materials from waste batteries and electronic equipment commissioned by RLG Systems Polska (elektro3000.pl website). Moreover, I am the initiator and/or coordinator of cooperation between the Faculty of Environmental Engineering and Extremo Technologies Sp. z o. o. and the municipal company Ekosystem Sp. z o. o.

In addition, I have repeatedly appeared as an expert in local and national media (including TVP Wrocław, Echo24, TVN 24 BiS, Radio 357, RMF FM, Radio LUZ, Polskie Radio Czwórka). I was also an expert in the Segregation Campaign of the Wrocław.pl website, as part of which in 2023 I answered readers' questions about waste segregation in the Wrocław bulletin (online and in print).

Since 2020, I have been a member of the Wrocław Academy of Young Scholars and Artists. Since 2023 I have been its president (term until 2025). As part of my activities at AYSA, I was, among others: co-initiator of the creation of a new category - Earth and Environmental Sciences in the Student Scholarship Program for PhD students. I am also the coordinator of evaluating scholarship applications in this category and the reviewer of applications in other SSP categories.

I am a certified academic tutor and Accessibility Leader at WUST.