Wrocław University of Science and Technology
Doctoral School

ACADEMIC TEACHER PROFESSIONAL EXPERIENCE

DOCTORAL SCHOOL OF WROCŁAW UNIVERSITY OF SCIENCE AND TECHNOLOGY

1. Basic information

Name, surname:	Justyna Rybak
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/Justyna-Rybak-2/research

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.	Wioletta Rogula-Kozłowska, Adam Krasuski, Justyna Rybak, Magdalena Wróbel, Malwina Tytła, Radosław Makowski: The ecotoxicity and mutagenicity of fire water runoff from small-scale furnishing materials fire tests. Science of the Total Environment. 2024, vol. 906, art. 167394, s. 1-9.	2024
2.	Agnieszka Trzyna, Justyna Rybak, Maciej Górka, Tomasz Olszowski, Joanna Kamińska, Tomasz Węsierski, Małgorzata Majder-Łopatka: Comparison of active and passive methods for atmospheric particulate matter collection: from case study to a useful biomonitoring tool. Chemosphere. 2023, vol. 334, art. 139004, s. 1-11.	2023
3.	Justyna Rybak, Magdalena Wróbel, Renata Krzyżyńska, Wioletta Rogula-Kozłowska, Tomasz Olszowski: Is Poland at risk of urban road dust? Comparison studies on mutagenicity of dust. Environmental Pollution. 2022, vol. 314, art. 120337, s. 1-11.	2023
4.	Wojciech Bartz, Maciej Górka, Justyna Rybak, Radosław Rutkowski, Agnieszka Stojanowska: The assessment of effectiveness of SEM- EDX and ICP-MS methods in the process of determining the mineralogical and geochemical composition of particulate matter deposited on spider webs. Chemosphere. 2021, vol. 278, art. 130454, s. 1-14.	2021
5.	Aneta K. Urbanek, Justyna Rybak, Magdalena Wróbel, Karol J. Leluk, Aleksandra M. Mirończuk: A comprehensive assessment of microbiome diversity in Tenebrio molitor fed with polystyrene waste. Environmental Pollution. 2020, vol. 262, art. 114281, s. 1-10	2020
6.	Konrad Matyja, Justyna Rybak, Beata E. Hanus-Lorenz, Magdalena Wróbel, Radosław Rutkowski: Effects of polystyrene diet on Tenebrio molitor larval growth, development and survival: dynamic Energy	2020

	Budget (DEB) model analysis. Environmental Pollution. 2020, vol. 264, art. 114740, s. 1-11.	
7.	Justyna Rybak, Magdalena Wróbel, Jan Stefan. Bihałowicz, Wioletta Rogula-Kozłowska: Selected metals in urban road dust: Upper and Lower Silesia case study. Atmosphere. 2020, vol. 11, nr 3, art. 290, s. 1-25.	2020
8.	Justyna Rybak, Wioletta Rogula-Kozłowska, Izabela Jureczko, Radosław Rutkowski: Monitoring of indoor polycyclic aromatic hydrocarbons using spider webs. Chemosphere. 2019, vol. 218, s. 758-766.	2019
9.	Justyna Rybak, Wioletta Rogula-Kozłowska, Krzysztof Loska, Kamila Widziewicz, Radosław Rutkowski: The concentration of Cu and Pb in the funnel spider Eratigena atrica (C. L. Koch 1843) (Araneae: Agelenidae) and its web. Chemistry and Ecology. 2019, vol. 35, nr 2, s. 179-190.	2019
10.	Justyna Rybak, Teresa Olejniczak: Accumulation of polycyclic aromatic hydrocarbons (PAHs) on the spider webs in the vicinity of road traffic emissions. Environmental Science and Pollution Research. 2014, vol. 21, nr 3, s. 2313-2324	2014

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	"Biology and ecology of isolated population Bathyphantes eumenis (L. Koch, 1879) (Araneae, Linyphiidae) in Stołowe Mountains.
	Sources of funding	NCN
	Name of the call	Research project of the Ministry Science and Higher Education, no 6PO4C 06921, project implementation at the University of Wrocław
	Implementation period	2002-2003
2.	Role in the project (e.g., principal investigator, work package leader, etc.)	work package
	Project title	"Development of cleaning methods in polluted groundwater on gasworks areas with enrichment of microorganisms
	Sources of funding	Polish-German project partner: Harbeuer GmbH Berlin Förderprogrammes PROINNO II “Entwicklung eines Aufbereitungsverfahrens zur Reinigung von kontaktinierten Grundwässern an Gaswerkstandorten mittels angereicherter Microorganism"
	Name of the call	
	Implementation period	2008-2010

3.	Role in the project (e.g., principal investigator, work package leader, etc.)	leader
	Project title	The use of cumulative properties of spider webs to indication air pollution
	Sources of funding	NCN
	Name of the call	National Research Project Science Center (NCN) (NN 305 096639) manageress
	Implementation period	2010-2012
4.	Role in the project (e.g., principal investigator, work package leader, etc.)	leader
	Project title	Elemental composition of PM tested with high resolution time (0.5-1h) as a tool in origin assessment of air pollution in selected regions of Poland
	Sources of funding	project of Ministry of Education and Science 0015/DW/2018/02
	Name of the call	Implementation doctorate
	Implementation period	2018-2022
5.	Role in the project (e.g., principal investigator, work package leader, etc.)	Managing Committee member
	Project title	Towards zer0 Pesticide AGRIculture: European Network for sustainability (T0P-AGRINetwork).
	Sources of funding	COST international project Action European Cooperation in Science and Technology
	Name of the call	COST ActionCA21134
	Implementation period	2022-2026

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.	Workshops as part of the Econetus project organized by the EU “Econetus Workshop on FP7” (“Support for networks creation in the field of Environment (including Global Change–from idea through submitting proposal and project managing till completion and successful audit”) in Krakow (http://econetus.polsl.pl/)	2007
2.	Honorable mention in the POLYTECHNICA NOVA 2022 competition for the project "Monitoring of micropollutants on the Wrocław University of Science and Technology Campus, coordinator and main contractor https://wis.pwr.edu.pl/wspolpraca/polytechnica-nova/monitoringmikrozanieczyszczen- on-the-campus of the Wroclaw University of Technology;	2022
3.		

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.	winter course New Advances in bioscience	2022/2023
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.	Radosław Rutkowski	"Development of the spider web method in context its use for air pollution assessment".	2021
2.	Tomasz Mach	"Elemental composition of PM examined with high time resolution (0.5-1 h) as a tool in origin assessment of air pollution in selected regions of Poland"	2023
3.	Magdalena Wróbel	"The impact of environmental stress on organisms"	2023
4.	Agnieszka Trzyna	"Assessment of the effectiveness of the use of spider webs by comparative tests in assessment of the air quality in a selected region"	2023

7. Prizes and awards

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

No.	Description	Year
1.		
2.		
3.		

8. Other significant achievements

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