



# ACADEMIC TEACHER PROFESSIONAL EXPERIENCE

## DOCTORAL SCHOOL OF WROCLAW UNIVERSITY OF SCIENCE AND TECHNOLOGY

### 1. Basic information

Name, surname:	Grzegorz Pasternak
Grade / Title:	Dr hab. inż. Prof. PWR
Scientific discipline	<b>inżynieria chemiczna / chemical engineering</b>
Faculty:	W3 Wydział Chemiczny / Faculty of Chemistry
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Link to home page and/or research profiles (Google Scholar, ResearchGate, etc.)	<a href="http://www.gplab.eu">www.gplab.eu</a> <a href="https://scholar.google.pl/citations?hl=pl&amp;user=ikXVLJwAAAAJ&amp;view_op=list_works&amp;sortby=pubdate">https://scholar.google.pl/citations?hl=pl&amp;user=ikXVLJwAAAAJ&amp;view_op=list_works&amp;sortby=pubdate</a>

### 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.	Horizontal microbial fuel cell system producing biosurfactants in response to current generation from waste cooking oil as a fuel G Pasternak, A de Rosset, P Rutkowski Energy Conversion and Management 281, 116807	2024
2	Bioelectrochemical synthesis of rhamnolipids and energy production and its correlation with nitrogen in air-cathode microbial fuel cells A de Rosset, N Tyszkiewicz, J Wiśniewski, N Pudełko-Malik, P Rutkowski, P Mlynarz, G Pasternak Journal of Environmental Management 365, 121514	2024
3.	Enhancing performance and durability of PVDF-ceramic composite membranes in microbial fuel cells using natural rhamnolipids A de Rosset, F Yalcinkaya, J Wolska, S Wacławek, G Pasternak Journal of Power Sources 621, 235257	2024
4.	High-throughput 96-well bioelectrochemical platform for screening of electroactive microbial consortia L Szydłowski, J Ehlich, I Goryanin, G Pasternak Chemical Engineering Journal 427, 131692	2022
5.	Recycled waste polypropylene composite ceramic membranes for extended lifetime of microbial fuel cells G Pasternak, N Ormeno-Cano, P Rutkowski Chemical Engineering Journal 425, 130707	2021

### 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	The mechanisms of bioelectrochemical transformation of petroleum products into biosurfactants. /PL: Mechanizmy bioelektrochemicznej transformacji materiałów odpadowych z przemysłu naftowego do biosurfaktant
	Sources of funding	NCN
	Name of the call	OPUS
	Implementation period	2020-09-01 - 2023-09-01
2.	Role in the project (e.g., principal investigator, work package leader, etc.)	Principal Investigator
	Project title	Polish Returns 2018
	Sources of funding	NAWA
	Name of the call	Polskie Powroty
	Implementation period	2019-01-01 - 2021-12-31
3.	Role in the project (e.g., principal investigator, work package leader, etc.)	Principal Investigator
	Project title	“Optimisation of selective treatment of distillery and fermentation waste using Bioelectrochemical Systems”,
	Sources of funding	Okinawa Institute of Science and Technology
	Name of the call	Joint research agreement
	Implementation period	2020/01/01 – 2020/03/31
4.	Role in the project (e.g., principal investigator, work package leader, etc.)	ITC Grant coordinator
	Project title	Protection, Resilience, Rehabilitation of damaged environment (PHOENIX)
	Sources of funding	EU
	Name of the call	COST
	Implementation period	2020-2024
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)
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1.	Research Fellow, Centre for Integrative Biology, University of Trento, Trento, Italy.	2016-2018
2.	Research Associate, Bristol BioEnergy Centre, University of the West of England, Bristol, United Kingdom	2014-2016
3.	<p>Short Stays, international visits:</p> <ul style="list-style-type: none"> <li>• Technical University of Liberec, Institute for Nanomaterials, Advanced Technologies and Innovation, Liberec, Czech Republic, 03/06/2022 - 11/06/2022, research internship funded under Short Term Scientific Mission, COST. Supervisor: Prof. Fatma Yalcinkaya.</li> <li>• Sapienza University of Rome, Department of Mechanical and Aerospace Engineering, Rome, Italy, 19/01/2022 - 23/01/2022, research internship funded under Short Term Scientific Mission, COST. Supervisor: Prof. Domenico Borello.</li> <li>• Technical University of Liberec, Institute for Nanomaterials, Advanced Technologies and Innovation, Liberec, Czech Republic, 18/10/2021 - 24/10/2021, research internship funded under Short Term Scientific Mission, COST. Supervisor: Prof. Fatma Yalcinkaya.</li> <li>• University of Cyprus, Department of Civil and Environmental Engineering, Nicosia, Cyprus. 29/09/2021 to 05/10/2021 research internship funded by Short Term Scientific Mission, COST. Supervisor: Dr. Argyro Tsipa.</li> <li>• Sapienza University of Rome, Department of Mechanical and Aerospace Engineering, Rome, Italy, 10/07/2021 - 17/07/2021, research internship funded by Short Term Scientific Mission, COST. Supervisor: Prof. Domenico Borello.</li> </ul>	2021-2022

## 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.	Participation in courses of Doctoral School: "Najnowsze kierunki badań w dyscyplinie inżynieria chemiczna"	2021-2024
2.	Experience in supervising domestic and international PhD students in microbial bioelectrochemistry, wastewater treatment, design and operation of bioelectrochemical systems.	2018-2024
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
	Currently 3 PhD students who are completing their programmes.		



## 7. Prizes and awards

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

No.	Description	Year
1.	Intelligent Development Forum Award, Scientist of the Future	2021
2.	First place in the Secundus programme of the Wrocław University of Technology, in one of twelve scientific disciplines,	2019
3.	Scholarship of the Ministry of Science and Higher Education for Young Outstanding Scientists	2012-2015

## 8. Other significant achievements

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

### Involvement in organising scientific events

1	SETAC 2023, Dublin	30/04-4/05/2023	Session Chair
2	SDEWES Los Angeles 2023	27.09.2023	Scientific advisory board
3	SDEWES 2023 Dubrovnik	24-29/09/2023	Scientific advisory board
4	MEEP 2022 Symposium, Lucerna, Szwajcaria	6-7/07/22	Session Chair
5	16th SDEWES Conference, Dubrovnik, Chorwacja	10-15/10/21	Session Chair Scientific advisory board
6	IAAM Baltic Conference Series 2017, Sztokholm, Szwecja	08-11/10/17	Scientific advisory board
7	International Conference Food and Biosystems Engineering - 3rd I.C. FaBE, 2017, Larissa, Grecja	01-04/06/17	Scientific advisory board
8	Biosensors 2016 26th Anniversary World Congress on Biosensors, Gothenburg, Szwecja	25-27/05/16	Session Chair