



ACADEMIC TEACHER PROFESSIONAL EXPERIENCE

DOCTORAL SCHOOL OF WROCLAW UNIVERSITY OF SCIENCE AND TECHNOLOGY

1. Basic information

Name, surname:	Hanna Fałtynowicz
Grade / Title:	PhD, Eng.
Scientific discipline	inżynieria chemiczna / chemical engineering
Faculty:	W3 Wydział Chemiczny / Faculty of Chemistry
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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.	K. Postawa, H. Fałtynowicz, K. Pstrowska, J. Szczygieł, M. Kułazyński; Artificial neural networks to differentiate the composition and pyrolysis kinetics of fresh and long-stored maize; <i>Bioresource Technology</i> 364 (2022) 128137, DOI: 10.1016/j.biortech.2022.128137	2022
2.	K. Postawa, H. Fałtynowicz, J. Szczygieł, E. Beran, M. Kułazyński; Analyzing the kinetics of waste plant biomass pyrolysis via thermogravimetry modeling and semi-statistical methods; <i>Bioresource Technology</i> 344 (2022) 126181, DOI: 10.1016/j.biortech.2021.126181	2022
3.	W. Brostow, H. Fałtynowicz, N. Hnatchuk, Y.-C. Yang; Improving the long-term performance of poli(vinyl chloride); <i>Chemistry and Chemical Technology</i> , 16(4) (2022) 543-554, DOI: 10.23939/chcht16.04.543	2022
4.	H. Fałtynowicz, M. Kułazyński, S. H. Goodman; Epoxies. In: <i>Handbook of thermoset plastics: 4th edition</i> ; Oxford, Cambridge, Elsevier, 2022. pp. 175-229, DOI: 10.1016/b978-0-12-821632-3.00014-2	2022
5.	H. Fałtynowicz, H. Janik, J. Kucińska-Lipka, M. Sienkiewicz, Polyurethanes. In: <i>Handbook of thermoset plastics: 4th edition</i> , Oxford, Cambridge, Elsevier, 2022. pp. 231-262	2022
6.	E. M. Burchacka, K. Pstrowska, E. Beran, H. Fałtynowicz, K. Chojnacka, M. Kułazyński; Antibacterial agents adsorbed on active carbon: a new approach for <i>S. aureus</i> and <i>E. coli</i> pathogen elimination; <i>Pathogens</i> , 10(8) (2021) 1066, DOI: 10.3390/pathogens10081066	2021
7.	W. Brostow, H. Fałtynowicz, O. Gencel, A. Grigoriev, H.E. Hagg Lobland, D. Zhang, <i>Mechanical and Tribological Properties of Polymers and Polymer-Based Composites</i> , <i>Chemistry and Chemical Technology</i> , 14(4) (2020) 514-520, DOI: 10.23939/chcht14.04.514	2020



8.	H. Fałtynowicz, P. Hodurek, J. Kaczmarczyk, M. Kułazyński, M. Łukaszewicz; Hydrolysis of surfactin over activated carbon; Bioorganic Chemistry, 93 (2019) 102896, DOI: 10.1016/j.bioorg.2019.03.070	2019
9.	M. Daszkiewicz, M. Puszyńska-Tuszkano, Z. Staszak, I. Chojnacka, H. Fałtynowicz, M. Cieślak-Golonka, 15. Single Crystal-to-Single Crystal transformation induced by ammonia-water equilibrium changes, CrystEngComm, 20 (2018) 2907-2911, DOI: 10.1039/C8CE00401C	2018
10.	H. Fałtynowicz, J. Kaczmarczyk, M. Kułazyński; Preparation and characterization of activated carbons from biomass material - giant knotweed (Reynoutria sachalinensis); Open Chemistry, 13 (2015) 1150-1156; DOI: 10.1515/chem-2015-0128	2015

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.)	investigator
	Project title	Development of technologies for rational management of bovine shavings from leather processing (MIZDRA 2.0)
	Sources of funding	NCBR
	Name of the call	Poir 1/4.1.4/2020
	Implementation period	2021-2023
2.	Role in the project (e.g., principal investigator, work package leader, etc.)	investigator
	Project title	Developing an innovative method of air purification in cereal grains and seeds dryers and reduction of waste generation (EcoDryer)
	Sources of funding	NCBR
	Name of the call	BIOSTRATEG 3
	Implementation period	2018-2021
3.	Role in the project (e.g., principal investigator, work package leader, etc.)	investigator
	Project title	Developing complex technologies of biomass biotransformation and its cascaded biorafination based on microbiorefinery prototype
	Sources of funding	NCBR
	Name of the call	DEMONSTRATOR
	Implementation period	2016-2018
4.	Role in the project (e.g., principal investigator, work package leader, etc.)	investigator
	Project title	Development of innovative technology for complex utilization of wastes generated during pigs breeding (KompUtyl)
	Sources of funding	NCBR
	Name of the call	BIOSTRATEG 2



	Implementation period	2016-2019
5.	Role in the project (e.g., principal investigator, work package leader, etc.)	Principal investigator
	Project title	Development of a method of cannabinoid analysis during all steps of cosmetics and parapharmaceuticals production by Botanika Farm company
	Sources of funding	DARR
	Name of the call	Bon na Innowacje
	Implementation period	2019

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.	Short cycle of lectures entitled 'Hydrogen fuel' in Al-Farabi Kazakh National University, Almaty, Kazakhstan; Erasmus+ Staff Mobility Programme	2023
2.	Research stay (one year) at Hornsund Polish Polar Station, Svalbard, Norway	2021-22
3.	Presentation entitled 'Surfactin separation on mesoporous activated carbons' during Polychar 27, World Forum on Advanced Materials in Naples, Italy	2019

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
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1.	Carl Klason Student Award for presentation during Polychar 27, World Forum on Advanced Materials in Naples	2019
2.	3 rd prize for presentation 'Effect of activation parameters on methane storage on activated carbon' during VIII International Conference 'Advance in Petroleum and Gas Industry and Petrochemistry', Lviv, Ukraine	2016
3.	Article 'Single Crystal-to-Single Crystal transformation induced by ammonia-water equilibrium changes' was awarded with Diamond by PAS Crystallography Committee	2019

8. Other significant achievements

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