



ACADEMIC TEACHER PROFESSIONAL EXPERIENCE

DOCTORAL SCHOOL OF WROCLAW UNIVERSITY OF SCIENCE AND TECHNOLOGY

1. Basic information

Name, surname:	Katarzyna Pstrowska
Grade / Title:	PhD. Eng.
Scientific discipline	inżynieria chemiczna / chemical engineering
Faculty:	W3 Wydział Chemiczny / Faculty of Chemistry
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Link to home page and/or research profiles (Google Scholar, ResearchGate, etc.)	https://techmat.pwr.edu.pl/en/employees-k26/phd-eng-katarzyna-pstrowska https://www.researchgate.net/profile/Katarzyna-Pstrowska https://scholar.google.pl/citations?user=weMS7x0AAAAJ&hl=pl

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.	E.Burchacka, K.Pstrowska, M.Bryk, F.Maciejowski, M.Kułażyński, K.Chojnacka, The Properties of Activated Carbons Functionalized with an Antibacterial Agent and a New SufA Protease Inhibitor. Materials https://doi.org/10.3390/ma16031263	2023
2.	S.Pyshyev, Y.Lypko, T.Chervinsky, O.Fedevych, M.Kułażyński, K.Pstrowska, Application of tyre derived pyrolysis oil as a fuel component. South African Journal of Chemical Engineering https://doi.org/10.1016/j.sajce.2022.12.003	2023
3.	K.Pstrowska, V.Gunka, Y.Prysiashnyi, Y.Demchuk, I.Hrynychuk, I.Sidun, M.Kułażyński, M.Bratychak, Obtaining of Formaldehyde Modified Tars and Road Materials on Their Basis. Materials https://doi.org/10.3390/ma15165693	2022
4.	K.Pstrowska, H.Czapor-Irzabek, D.Borowiak, E.Burchacka, Acesulfame k photodegradation over nitrogen-doped TiO ₂ . Catalysts https://doi.org/10.3390/catal11101193	2021
5.	K.Pstrowska, J.Walendziewski, Assessment of the refining process profitability for biofuel production – rapeseed pyrolytic oil case study. Polish Journal of Environmental Studies https://doi.org/10.15244/pjoes/133210	2021
6.	D.Borowiak, K.Pstrowska, M.Wiśniewski, M.Grzebyk, Propagation of inoculum for Haematococcus pluvialis microalgae scale-up photobioreactor cultivation system. Applied Sciences https://doi.org/10.3390/APP10186283	2020
7.	K.Kolenda, N.Kuśmierk, K.Pstrowska, Microplastic ingestion by tadpoles of pond-breeding amphibians—first results from Central Europe (SW Poland). Environmental Science and Pollution Research https://doi.org/10.1007/s11356-020-09648-6	2020



8.	M.Kułażyński, S.Jabłoński, J.Kaczmarczyk, Ł.Świątek, K.Pstrowska, M.Łukaszewicz, Technological aspects of sunflower biomass and brown coal co-firing. Journal of the Energy Institute https://doi.org/10.1016/j.joei.2017.06.003	2018
9.	K.Pstrowska, B.Szyja, H.Czapor-Irzabek, A.Kiersnowski, J.Walendziewski, The Properties and Activity of TiO ₂ /beta-SiC Nanocomposites in Organic Dyes Photodegradation. Photochemistry and Photobiology https://doi.org/10.1111/php.12705	2017
10.	K.Pstrowska, J.Walendziewski, R.Łuźny, M.Stolarski, Hydroprocessing of rapeseed pyrolysis bio-oil over NiMo/Al ₂ O ₃ catalyst. Catalysis Today https://doi.org/10.1016/j.cattod.2013.10.066	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.)	Contractor
	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	1/4.1.4/2020 Application projects 7
	Implementation period	2021-2023
2.	Role in the project (e.g., principal investigator, work package leader, etc.)	Contractor
	Project title	Graphene based artificial leaf
	Sources of funding	NCN
	Name of the call	Opus 11
	Implementation period	2017-2020
3.	Role in the project (e.g., principal investigator, work package leader, etc.)	Contractor
	Project title	Developing of innovative air purification methods for grain and seed drying, along with pollutant emissions reduction (ECO-Dryer)
	Sources of funding	NCBR
	Name of the call	Biostrateg 3
	Implementation period	2018-2019
4.	Role in the project (e.g., principal investigator, work package leader, etc.)	Contractor
	Project title	Developing innovative technologies complex utilization of waste generated during the fattening pigs (KompUtyl)
	Sources of funding	NCBR
	Name of the call	Biostrateg 2
	Implementation period	2016



5.	Role in the project (e.g., principal investigator, work package leader, etc.)	leader
	Project title	PhOxy – lean methane photooxidation
	Sources of funding	Climate-KIC Greenhouse
	Name of the call	
	Implementation period	01.2017-12.2017

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.	De Technische Universiteit Eindhoven (TU/e), Eindhoven, the Netherlands - scientific internship	2018
2.	Lviv Polytechnic National University Institute of Chemistry and Chemical Technology – Ukraine - scientific internship	2021
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.		
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.	3rd Edition of International Congress on Catalysis and Chemical Science – Singapore – best poster award	2019
2.	Wrocław University of Science and Technology Rector's award	2022



3.	Laureate of the Secundus programme - Wrocław University of Science and Technology Rector's initiative	2023
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8. Other significant achievements

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