



ACADEMIC TEACHER PROFESSIONAL EXPERIENCE

DOCTORAL SCHOOL OF WROCLAW UNIVERSITY OF SCIENCE AND TECHNOLOGY

1. Basic information

Name, surname:	Emilia Zachanowicz
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://www.researchgate.net/profile/Emilia-Zachanowicz

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.	Emilia K. Zachanowicz, Magdalena Kulpa-Greszta*, Anna Tomaszewska*, Małgorzata Gazińska, Monika Marędziaik*, Krzysztof Marycz*, Robert Pązik* autor spoza PWR Multifunctional properties of binary polyrhodanine manganese ferrite nanohybrids - from the energy converters to biological activity. Polymers. 2020, vol. 12, nr 12, art. 2934, s. 1-18. https://www.mdpi.com/2073-4360/12/12/2934	2020
2.	Magdalena Kulpa-Greszta*, Anna Tomaszewska*, Emilia K. Zachanowicz, Piotr Krzemiński*, Robert Pązik* Contactless and synergic heat generation using AMF and laser radiation within 1st and 2nd optical biological window on PMMA covered cobalt-manganese ferrite hybrid particles. Journal of Alloys and Compounds. 2022, vol. 898, art. 162840, s. 1-10. https://www.sciencedirect.com/science/article/pii/S092583882104250X?via%3Dihub	2022
3.	Magdalena Kulpa-Greszta*, Robert Pązik*, Patrycja Kłoda*, Anna Tomaszewska*, Emilia K. Zachanowicz, Krzysztof Pałka*, Grażyna Ginalska*, Anna Belcarz* Efficient non-contact heat generation on flexible, ternary hydroxyapatite/curdlan/nanomagnetite hybrids for temperature controlled processes. Materials Science & Engineering. C, Materials for Biological Applications. 2021, vol. 118, art. 111360, s. 1-16. https://www.sciencedirect.com/science/article/pii/S0928493120332781?via%3Dihub	2021
4.	Emilia K. Zachanowicz, Jacek Pięłowski, Aleksander Zięcina*, Krzysztof Rogacki*, Błażej Poźniak*, Marta Tikhomirov*, Monika Marędziaik*, Krzysztof Marycz*, J. Kisała*, Kinga Hęclik* autor spoza PWR, Robert Pązik* Polyrhodanine cobalt ferrite (PRHD@CoFe ₂ O ₄) hybrid nanomaterials - synthesis, structural, magnetic, cytotoxic and antibacterial properties. Materials Chemistry and Physics. 2018, vol. 217, s. 553-561. https://linkinghub.elsevier.com/retrieve/pii/S0254058418304115	2018
5.	Emilia K. Zachanowicz, Jacek Pięłowski, Michał K. Grzymajło, Błażej Poźniak*, Marta Tikhomirov*, Natalia Pierunek*, Zbigniew Śniadecki*, Bogdan Idzikowski*, Krzysztof Marycz*, Monika Marędziaik*, J. Kisała*, Karol Hęclik*, Robert Pązik* Efficient synthesis of PMMA@Co _{0.5} Ni _{0.5} Fe ₂ O ₄ organic-inorganic hybrids containing hyamine 1622 – physicochemical properties, cytotoxic assessment and antimicrobial	2018



	activity. Materials Science & Engineering. C, Materials for Biological Applications. 2018, vol. 90, s. 248-256. https://www.sciencedirect.com/science/article/pii/S092849311733833X?via%3Dihub	
6.	Emilia K. Zachanowicz, Aleksander Zięcina*, Paulina Mikołajczyk*, Krzysztof Rogacki*, Małgorzata Małecka*, Krzysztof Marycz*, Monika Marędziak*, Błażej Poźniak*, Marta A. Nowakowska*, Marta Tikhomirov*, Julia Miller*, Rafał J. Wiglusz*, Robert Pązik* Cytotoxic effects of Co _{1-x} MnxFe ₂ O ₄ ferrite nanoparticles synthesized under non-hydrolytic conditions (Bradley's Reaction) - in vitro. European Journal of Inorganic Chemistry. 2016, vol. 2016, nr 34, s. 5315-5323. https://chemistry-europe.onlinelibrary.wiley.com/doi/10.1002/ejic.201600720	2016
7.		
8.		
9.		
10.		

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.)	Project executor
	Project title	Smart nanoparticles for bio-imaging and drug delivery
	Sources of funding	National Science Centre
	Name of the call	Faculty of Chemistry – Poland
	Implementation period	2011-2017
2.	Role in the project (e.g., principal investigator, work package leader, etc.)	Project executor
	Project title	Novel method of polyamide powders reconditioning for re-use in selective laser sintering process - PowderEUse
	Sources of funding	National Centre for Research and Development
	Name of the call	Wrocław University of Science and Technology Poland
	Implementation period	2023-2024
3.	Role in the project (e.g., principal investigator, work package leader, etc.)	Project executor
	Project title	Effect of multiple recycling on the properties of polyolefin films
	Sources of funding	National Centre for Research and Development
	Name of the call	Wrocław University of Science and Technology Poland
	Implementation period	2024-2026
4.	Role in the project (e.g., principal investigator, work package leader, etc.)	Project executor
	Project title	Multifunctional foams for temperature stimulated regenerative processes of bone tissue
	Sources of funding	Podkarpackie Centre for Innovation
	Name of the call	University of Rzeszów
	Implementation period	01.04.2022 – 01.09.2022



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.	International cooperation with Fraunhofer Institute for Process Engineering and Packaging, Fraunhofer Institute for Casting, Composite and Processing Technology and Hasselt University from Belgium as part of the project Cornet 35.	2024-2026
2.	Participation in international conferences: BioNanoMed 2018, Functional Polymeric Materials, The European Conference Physics of Magnetism	2016-2018
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.	<i>courses in doctoral schools and PhD studies</i> - Modern macromolecular engineering materials	2024
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.	Awards of the Rector of Wrocław University of Technology for outstanding scientific achievement in the academic year 2022/2023	2022/2023
2.		
3.		

8. Other significant achievements

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