

ACADEMIC TEACHER PROFESSIONAL EXPERIENCE

DOCTORAL SCHOOL OF WROCŁAW UNIVERSITY OF SCIENCE AND TECHNOLOGY

1. Basic information

Name, surname:	Marta, Fiedot	
Grade / Title:	PhD	
Scientific discipline	automatyka, elektronika, elektrotechnika i technologie kosmiczne / control, electronic, electrical engineering and space technologies	
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/Marta- Fiedot	

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
1.	Podstawczyk, D., Nizioł, M., Szymczyk-Ziółkowska, P., & Fiedot-Toboła, M. (2021). Development of thermoinks for 4D direct printing of temperature-induced self-rolling hydrogel actuators. <i>Advanced Functional Materials</i> , 31(15), 2009664.	year 2021
2.	<u>Fiedot-Toboła, M.*</u> , Dmochowska, A., Potaniec, B., Czajkowska, J., Jędrzejewski, R., Wilk-Kozubek, M., & Cybińska, J. (2021). Gallic Acid Based Black Tea Extract as a Stabilizing Agent in ZnO Particles Green Synthesis. Nanomaterials, 11(7), 1816.	2021
3.	<u>Fiedot-Toboła, M.*</u> , Dmochowska, A., Jędrzejewski, R., Stawiński, W., Kryszak, B., & Cybińska, J. (2021). Pectin-organophilized ZnO nanoparticles as sustainable fillers for high-density polyethylene composites. International Journal of Biological Macromolecules, 182, 1832-1842.	2020
4.	Bastrzyk, A.*, Fiedot-Toboła, M.*, Maniak, H., Polowczyk, I., & Płaza, G. (2020). Surfactin as a green agent controlling the growth of porous calcite microstructures. International Journal of Molecular Sciences, 21(15), 5526.	2020
5.	Dmochowska, A., Czajkowska, J., Jędrzejewski, R., Stawiński, W., Migdał, P., & <u>Fiedot-Toboła*</u> , M. (2020). Pectin based banana peel extract as a stabilizing agent in zinc oxide nanoparticles synthesis. International Journal of Biological Macromolecules, 165, 1581-1592.	2020
6.	<u>Fiedot-Toboła, M.*</u> , Suchorska-Woźniak, P., Startek, K., Rac-Rumijowska, O., Szukiewicz, R., Kwoka, M., & Teterycz, H. (2020). Correlation between microstructure and chemical composition of zinc oxide gas sensor layers and their gas-sensitive properties in chlorine atmosphere. Sensors, 20(23), 6951.	2020
7.	<u>Fiedot-Toboła, M.*</u> , Ciesielska, M., Maliszewska, I., Rac-Rumijowska, O., Suchorska-Woźniak, P., Teterycz, H., & Bryjak, M. (2018). Deposition of zinc oxide on different polymer textiles and their antibacterial properties. Materials, 11(5), 707.	2018



8.	<u>Fiedot, M.*</u> , Maliszewska, I., Rac-Rumijowska, O., Suchorska-Woźniak, P.,	2017	
	Lewińska, A., & Teterycz, H. (2017). The relationship between the		
	mechanism of zinc oxide crystallization and its antimicrobial properties for		
	the surface modification of surgical meshes. Materials, 10(4), 353.		
9.	Rac-Rumijowska, O.*, Fiedot, M., Karbownik, I., Suchorska-Woźniak, P., &	2017	
	Teterycz, H. (2017). Synthesis of silver nanoparticles in NMMO and their in		
	situ doping into cellulose fibers. Cellulose, 24, 1355-1370.		
10.	Karbownik, I., Fiedot, M.*, Rac, O., Suchorska-Woźniak, P., Rybicki, T., &	2015	
	Teterycz, H. (2015). Effect of doping polyacrylonitrile fibers on their		
	structural and mechanical properties. Polymer, 75, 97-108.		

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
	principal investigator,	
	work package leader, etc.)	
	Project title	Food freshness indicators based on pectin and natural dyes
	Sources of funding	MNISW
	Name of the call	Internal grant, PWr/W3
	Implementation period	2023-2024
2.	Role in the project (e.g.,	principal investigator
	principal investigator,	
	work package leader, etc.)	
	Project title	Polymer composites with fungicidal and bactericidal properties for
		use in the furniture industry
	Sources of funding	MNISW
	Name of the call	Internal grant, PORT-Łukasiewicz
	Implementation period	2017-2018
3.	Role in the project (e.g.,	principal investigator
	principal investigator,	
	work package leader, etc.)	
	Project title	Assessment of the influence of platinum on the parameters of a
		resistance chlorine sensor
	Sources of funding	MNISW
	Name of the call	Internal grant, PWr/W12
	Implementation period	2016-2017
4.	Role in the project (e.g.,	principal investigator
	principal investigator,	
	work package leader, etc.)	
	Project title	Modern antibacterial materials based on zinc oxide
	Sources of funding	MNiSzW
	Name of the call	Diamentowy Grant
	Implementation period	2013 – 2017
5.	Role in the project (e.g.,	principal investigator
	principal investigator,	
	work package leader, etc.)	
	Project title	Gas-sensitive properties of one-dimensional zinc oxide structures



Sources of funding	Urząd Marszałkowski
Name of the call	Grant Plus
Implementation period	2015-2016

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.	N/A	
2.		
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.	"Modern macromolecular engineering materials" (W03INC-SD0114W):	2024
	co-preparing the course card, course materials, conducting classes in English	
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.	N/A		
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.	Scholarship of the Minister of Science and Higher Education for	2011,	2012,	
	achievements in science, received 3 times	2015		
2.	The best graduate of Wrocław University of Science and Technology in the	2013		
	2012/2013 academic year			
3.	Honored in the national competition "Gold Medal of Chemistry" organized			
	by the Institute of Physical Chemistry of the Polish Academy of Sciences			

8. Other significant achievements



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

CONFERECNES PRICES:

- 1) international conference, presentation "Microstructure of zinc oxide an concentration of oxygen vacancies", 42th International Spring Seminar on Electronics Technology 2019, Wrocław, first place in the competition for the best presentation,
- 2) international conference, poster "The effect of doping active layer with gold nanoparticles on the response of chlorine sensor", 40th International Microelectronics and Packaging IMAPS 2016 Conference, Wałbrzych, an award for a woman of science awarded by the Visegrad Network for Microelectronics Engineering Scientists (VISmes),
- 3) international conference, poster "Chlorine sensing properties of zinc oxide resistive gas sensor doped with platinum", 4th International Conference on Optical and Electronic Sensors COE'2016, Gdansk, first place in the competition for the best poster,
- 4) international conference, poster in English "The effect of humidity on the resistive gas sensor response in chlorine", 3th EuCheMS Inorganic Chemistry Conference, Wrocław, first place in the competition for the best poster.