



ACADEMIC TEACHER PROFESSIONAL EXPERIENCE

DOCTORAL SCHOOL OF WROCLAW UNIVERSITY OF SCIENCE AND TECHNOLOGY

1. Basic information

Name, surname:	Małgorzata Gazińska
Grade / Title:	Dr inż.
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/M-Gazinska/research

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.	M. A. Gazińska , E. Ortyl, A. Krokos, M. Grzymajło, M. Kobielarz, Paweł Dąbrowski, J. Kressler, Relationship between the poly(glycerol adipate) prepolymers chain microstructure and linear viscoelastic properties of the elastomers, <i>Reactive and Functional Polymers</i> , 199, 2024, 105891, p. 1-13, https://doi.org/10.1016/j.reactfunctpolym.2024.105891	2024
2.	M. A. Gazinska , A. Krokos, Tunable structure and linear viscoelastic properties of poly(glycerol adipate urethane) based elastomeric composites for tissue regeneration, <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 153, 2024, 106493, p. 1-11, https://doi.org/10.1016/j.jmbbm.2024.106493	2024
3.	A. Szwed-Georgiou, P. Płociński, B. Kupikowska-Stobba, M. M. Urbaniak, P. Rusek-Wala, K. Szustakiewicz, P. Piszko, A. Krupa, M. Biernat, M. Gazińska , M. Kasprzak, K. Nawrotek, N. Pereira Mira, K. Rudnicka, Bioactive materials for bone regeneration: biomolecules and delivery systems, <i>ACS Biomaterials Science & Engineering</i> , 2023, p. 1-33, https://doi.org/10.1021/acsbiomaterials.3c00609	2023
4.	P. Piszko, B. Kryszak, M. Gazińska , D. Słota, A. Sobczak-Kupiec, M. Włodarczyk, A. Szwed-Georgiou, K. Rudnicka, K. Szustakiewicz, The effect of filler content on mechanical properties and cell response of elastomeric PGS/apatite foam scaffolds, <i>Ceramics International</i> , 2023, vol. 49, nr 15, p. 25353-25363, https://doi.org/10.1016/j.ceramint.2023.05.071	2023
5.	M. Stępień, A. Marszałek-Harych, M. Gazińska , A. Gągor, Ł. John, J. Ejfler, Novel latent catalyst for ring-opening polymerization of 1,3-benzoxazines triggered by a dual ionic/non-ionic monomer partnership, <i>Macromolecules</i> , 2023, vol. 56, nr 15, p. 5730-5742, https://doi.org/10.1021/acs.macromol.3c00738	2023



6.	P. Nakielski, Ch. Rinoldi, M. Pruchniewski, S. Pawłowska, M. Gazińska , B. Strojny, D. Rybak, K. Jezierska-Woźniak, O. Urbanek, P. Denis, E. Sinderewicz, W. Czelejewska, J. Staszkiwicz-Chodor, M. Grodzik, Y. Ziai, M. Barczewska, W. Maksymowicz, F. Pierini, Laser-assisted fabrication of injectable nanofibrous cell carriers, <i>Small</i> , 2022, vol. 18, nr 2, art. 2104971, p. 1-18, https://doi.org/10.1002/sml.202104971	2022
7.	P. Gruber, G. J. Ziółkowski, M. Gazińska , B. Kryszak, A. Krokos, M. Olejarczyk, P. Szymczyk-Ziółkowska, P. K. Dzienny, A. Antończak, High porosity composite structures produced from poly(lactic acid)/hydroxyapatite microspheres using novel Dual Beam Laser Sintering method: Analysis of structural, mechanical and thermal properties, <i>Journal of Manufacturing Processes</i> , 2022, vol. 84, p. 1284-1297, https://doi.org/10.1016/j.jmapro.2022.11.010	2022
8.	B. Kryszak, M. Gazińska , P. Gruber, M. J. Wiczorek, A. Krokos, P. K. Dzienny, P. Szymczyk-Ziółkowska, M. Olejarczyk, A. Antończak, Mechanical properties and degradation of laser sintered structures of PLA microspheres obtained by dual beam laser sintering method, <i>International Journal of Advanced Manufacturing Technology</i> , 2022, vol. 120, p. 7855-7872, https://doi.org/10.1007/s00170-022-09253-6	2022
9.	A. Antończak, M. J. Wiczorek, P. K. Dzienny, B. Kryszak, A. Krokos, P. Gruber, M. Olejarczyk, M. Gazińska , First, do not degrade - dual beam laser sintering of polymers, <i>Additive Manufacturing</i> , 53, 2022, 102715, p. 1-14, https://doi.org/10.1016/j.addma.2022.102715	2022
10.	D. Trybula, A. Marszałek-Harych, M. Gazińska , S. Berski, D. Jędrzkiewicz, J. Ejfler, N-activated 1,3-benzoxazine monomer as a key agent in polybenzoxazine synthesis, <i>Macromolecules</i> , 2020, vol. 53, nr 19, p. 8202-8215, https://doi.org/10.1021/acs.macromol.0c02036	2020

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	Novel method of polyamide powders reconditioning for re-use in selective laser sintering process
	Sources of funding	The National Centre for Research and Development
	Name of the call	M-ERA.NET 3
	Implementation period	01.04.2022-30.09.2024
2.	Role in the project (e.g., principal investigator, work package leader, etc.)	Project leader
	Project title	Mechanotransduction effect in elastomeric composites of poly(glycerol adipate)



	Sources of funding	National Science Centre Poland
	Name of the call	Miniatura 5, NCN
	Implementation period	15.12.2021-14.06.2023
3.	Role in the project (e.g., principal investigator, work package leader, etc.)	Workpages leader
	Project title	Multifunctional composite material with antimicrobial and pro-regenerative properties for bone tissue reconstruction
	Sources of funding	The National Centre for Research and Development
	Name of the call	Techmatstrateg 2
	Implementation period	01.03.2019 – 31.05.2023
4.	Role in the project (e.g., principal investigator, work package leader, etc.)	Member of Management Team and Investigator
	Project title	Multifunctional biologically active composites for bone regenerative medicine applications
	Sources of funding	Foundation for Polish Science
	Name of the call	TeamNet
	Implementation period	01.10.2019-30.09.2023
5.	Role in the project (e.g., principal investigator, work package leader, etc.)	Investigator, work packages leader
	Project title	Laser modification of bioresorbable polymeric materials in additive manufacturing processes
	Sources of funding	National Science Centre Poland
	Name of the call	OPUS
	Implementation period	17.09.2018-16.09.2022

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.	Participation in international project “Novel method of polyamide powders reconditioning for re-use in selective laser sintering process”, M-ERA.NET 3	2022-2024
2.	Consultation visit at Mechanobiology and Tissue Engineering group at KU Leuven, Belgium	2023
3.	Scientific consultations on the mechanotransduction effect with scientists specializing in the biomechanics of implant materials:- with Prof. Andrew Pitsillides (Professor of Skeletal Dynamics), The Royal Veterinary College, London, UK; - with Dr. Costanza Giampietro of the Federal Institute for Materials Research and Technology in Dübendorf, St. Gallen and Thun (EMPA), Dübendorf, Switzerland.	2023

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, lecture course at WUST doctoral school, 3 lectures in semester	Academic year 2023/2004
2.	Training of PhD students in thermal analysis techniques	2019-2024
3.	Supervision of visiting PhD students	2022-2023

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.	Anna Krokos	Polymer-ceramic biomaterials for bone tissue regeneration	2023
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.	Platinum medal for the invention "Porous and solid elastomeric bioactive polymer-ceramic composites for filling and bone tissue regeneration" at the International PRIX Eiffel International Invention, Paris	2023
2.	Gold medal for the invention "Multifunctional elastomeric biocomposite for bone tissue regeneration" at the 16th ITNARG International Invention	2023
3.		

8. Other significant achievements

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