

Prospective supervisor's form

Name of the supervisor: Józef Haponiuk

Academic title: Professor

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Discipline: chemical sciences [NCh] materials engineering [IMa]

Optional

Key words (obligatory four key words describing research interests / expertise):

polymers

biopolymers

polyurethanes

recycling

Bibliometric indicators

1. Number of journal publications in WoS/ Scopus 101/102

2. Citations excluding self-citations WoS 704 Scopus 774

3. Hirsch index WoS 16 Scopus 17

1. The number of PhD students who have graduated under your supervision: 11

2. The number of PhD students currently supervised:

a. within the current doctoral school 0

b. within doctoral studies (previous system) 3

3. Are you currently accepting new PhD students:

a. Polish Yes/No Yes

b. Foreign Yes/No Yes

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Research interests or topics offered for PhD research (no more than 2000 characters)ⁱⁱ

- chemistry and technology of polyurethane elastomers and foams,
- use of renewable raw materials (including chemically modified vegetable oils, starch, fillers of natural origin) in polymer technology,
- chemical recycling of polyurethanes elastomers and foams,
- rubber processing and recycling,
- recycling and use of renewable raw materials in polymer technology,
- polymer nanocomposites,
- new varieties of technical polyurethanes,
- biomedical polyurethanes, biopolyurethanes, biopolymers,
- polymer blends and composites
- biodegradable / compostable polymers,
- modification of bitumens with polymers, including ground rubber waste from tire recycling processes.

Funding or special equipment needed to carry out a PhD project ⁱⁱⁱ:

1. Is funding available for experimental work: *Yes/No/not needed*

Yes

2. Is the equipment needed to complete a PhD project

available in your lab/department: *Yes/No/not needed*

Yes

Most important publications – no more than 5 published after 1.01.2018

No	Authors/title/journal	Number of points according to the current list of the Ministry of Science and Higher Education	Publication year
1.	Muringayil T., Murali Nair S., Kattimuttathu Ittara S., Haponiuk J., Thomas S.: Copolymerization of Styrene and Pentadecylphenylmethacrylate (PDPMA): Synthesis, Characterization, Thermomechanical and Adhesion Properties// Polymers -Vol. 12,iss. 1 (2020), s.97-113	100	2020
2.	Kosmela P., Hejna A., Suchorzewski J., Piszczyk Ł., Haponiuk J.: Study on the Structure-Property Dependences of Rigid PUR-PIR Foams Obtained from Marine Biomass-Based Biopolyol// Materials -Vol. 13,iss. 5 (2020), s.1-22	140	2020

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3.	Zedler Ł., Colom X., Cañavate J., Saeb M., Haponiuk J., Formela K.: Investigating the Impact of Curing System on Structure-Property Relationship of Natural Rubber Modified with Brewery By-Product and Ground Tire Rubber// Polymers -Vol. 12,iss. 3 (2020), s.1-15	100	2020
4.	Gosz K., Kowalkowska-Zedler D., Haponiuk J., Piszczyk Ł.: Liquefaction of alder wood as the source of renewable and sustainable polyols for preparation of polyurethane resins// WOOD SCIENCE AND TECHNOLOGY -Vol. 54,iss. 1 (2020), s.103-121	200	2020
5.	Amalraj A., Haponiuk J., Thomas S., Gopi S.: Preparation, characterization and antimicrobial activity of polyvinyl alcohol/gum arabic/chitosan composite films incorporated with black pepper essential oil and ginger essential oil// INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES -Vol. 151, (2020), s.366-375	100	2020

Most recent externally funded projects you were involved in – no more than 3

No	Project title, the name of the Principal Investigator (PI) and the institution the project was carried out	Years	Role in the project ^{iv}
1.	POIR.01.01.01-00-0842/17, Development and implementation of technology for the production of innovative heat-shrinkable radiation cross-linked heat-shrinkable tubes for thermal transfer printing, made of polymer materials with increased thermal resistance to aging processes, with halogen-free flame retardant PARDOL S.A. POIR.01.01.01-00-0842/17 (NCPiP)	2019-2021	PI
2.	GRAF-TECH / NCBR / 11/08/2013, Polyurethane nanocomposites containing reduced graphium oxide; 01/02/2013 - 30/06/2015; PI. Michał Strankowski - Gdańsk University of Technology, Institute of Leather Industry, MB Market Ltd.	2013-2015	R
3.	Alternative Material Recycling Products Obtained from Rubber Waste, R&D Project No 03/46/2011 Co-financed by WFOŚiGW (Voivodship Environmental Protection and Water Management Fund)	2011-2013	PI

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Additional relevant information (no more than 1600 characters)^v

Supervisor of PhD thesis by Aleksander Hejna the laureate of Scholarship of the Minister of Science and Higher Education for doctoral students for outstanding achievements for the academic year 2016/2017 and in 2017 for the best PhD thesis in the competition of Gdańsk Division of Polish Chemical Society (PTChem).

Supervisor of PhD thesis of Marta Przybysz- Romatowska, Project manager of ongoing grant PRELUDIUM UMO-2018/29 / N / ST8 / 02042 pt. Analysis of the impact of the structure of peroxide initiators on efficiency dynamic cross-linking of aliphatic polyesters and their mixtures.

Co-supervisor of 4 PhD thesis realized in cooperation with prof Sabu Thomas from Mahatma Gandhi University, Kottayam, Kerala, India (2 finished).

ⁱ You may select up to two disciplines out of 12 disciplines represented in the Doctoral School

ⁱⁱ Observe the limit of not more than 2000 characters

ⁱⁱⁱ Leave only one answer

^{iv} Select the role in the project: PI stands for principal investigator (refers to the holder of an independent grant and the lead researcher for the grant project), Co-I for co-investigator (Co-I assists the principal investigator in the management and leadership of the research project), R for researcher

^v Add any other relevant information e.g. awards for PhD students whom you supervised (no more than 1600 characters)