

Prospective supervisor's form

Name of the supervisor: Janusz Datta

Academic title: Professor

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Gdańsk University of Technology Faculty of Chemistry

Department of Polymer Technology

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

Optional

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

polyurethanes and synthesis of bio bas

bio based polymer composites

rubber materials

recycling of plastics

Bibliometric indicators

1. Number of journal publications in WoS/ Scopus 93/99

2. Citations excluding self-citations WoS 741 Scopus 730

3. Hirsch index WoS 20 Scopus 18

1. The number of PhD students who have graduated under your supervision: 4

2. The number of PhD students currently supervised:

a. within the current doctoral school 3

b. within doctoral studies (previous system) 2

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

Topics:

- 1) Chemical decomposition (recycling) of the polyetherurethane rigid foams - continuation of my research line
- 2) Synthesis of novel bio based bi- and tri-functional monomers
- 3) Synthesis of low molecular weight bio based polyols suitable for thermoplastic polyurethanes - new project with an idea to obtain novel reactive co-monomers with controlled structure and molecular weight size
- 4) Synthesis of non isocyanate polyurethane materials - continuation of my research line
- 4) Ecologic modifiers for rubber mixtures and elastomer composites

Funding or special equipment needed to carry out a PhD projectⁱⁱⁱ:

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

No

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.	Ewa Głowińska, Janusz Datta, Juan Francisco Rodríguez, Diego Simón Herrero, Rodríguez, Manuel Carmena, Novel cast polyetherurethanes based on dispersed polymeric polyols / Polymer Testing	100	2018
2.	Patrycja Jutrzenka Trzebiatowska, Arantzazu Santamaria-Echart, Tamara Calvo-Correas, Arantxa Eceiza, Janusz Datta / The changes of crosslink density of polyurethanes synthesised with using recycled component. Chemical structure and mechanical properties investigations / Progress in Organic Coatings	100	2018

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3.	Paulina Kasprzyk, Janusz Datta, Novel bio-based thermoplastic poly (ether-urethane)s. Correlations between the structure, processing and properties/ Polymer	100	2019
4.	Kamila Błażek, Janusz Datta / Renewable natural resources as green alternative substrates to obtain bio-based non-isocyanate polyurethanes- review / Critical Reviews in Environmental Science and Technology	200	2019
5.	Kamila Błażek, Janusz Datta and Alicja Cichoracka, Sustainable synthesis of cyclic carbonates from bio-based polyether polyol: the structure characterization, rheological behaviour and thermal properties / Polymer International	70	2019

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.	ECO sole - an innovative route of producing footwear soles based on the recycling of polyurethane waste	2018-2019	Co-I
2.			PI
3.			PI

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

Awards for PhD candidates who were supervised by me:
Scholarship of Minister of Science and Higher Education for outstanding achievements in the academic year 2018/2019; scholarship financed from the subject subsidy for financing of pro-quality activity; GUT Rector scholarship; the best poster at the conference; winning research NCN projects (two times); collaboration at industry projects

Member of PhD jury at Castilla La Muncha University (3 times)

Member of PhD jury at Basque Country University

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)