

Prospective supervisor's form

Name of the supervisor:

Academic title:

Orcid ID number: [https://orcid.org/0000-](https://orcid.org/0000-0000-0002-3618-1435)

Faculty of

Gdańsk University of Technology Department of

Phone: +48

E-mail:

Personal web page: <https://pg.edu.pl/>

Discipline¹

Optional

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

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Bibliometric indicators

1. Number of journal publications in WoS/ Scopus

2. Citations excluding self-citations WoS Scopus

3. Hirsch index WoS Scopus

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

2. The number of PhD students currently supervised:

a. within the current doctoral school

b. within doctoral studies (previous system)

3. Are you currently accepting new PhD students:

a. Polish Yes/No

b. Foreign Yes/No

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

Synthesis and characterisation of novel electrode materials for energy storage devices such as electrochemical capacitors, Li-ion capacitors, Li-ion and Na-ion batteries. Sol-gel synthesis of composites based on polymer-derived ceramics (PDCs). Electrodeposition of composite thin films based on electroactive polymers and nanostructured carbon materials. Study of different kind of composite materials containing various forms of carbonaceous materials. Investigation of the influence of the synthesis method and conditions on the physicochemical and electrochemical properties of the materials. Correlation of chemical composition and microstructure of the investigated composites with their electrochemical properties.

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.	A. Cymann, M. Sawczak, J. Ryl, E. Klugmann-Radziemska, M. Wilamowska-Zawłocka, Capacitance Enhancement by Incorporation of Functionalised Carbon Nanotubes into Poly (3,4-Ethylenedioxythiophene)/Graphene Oxide Composites, <i>Materials</i> , 13 (2020) 2419.	140	2020
2.	A. Dettlaff, P. R.Das, L. Komsiyiska, O. Ostera, J. Łuczak, M. Wilamowska-Zawłocka, Electrode materials for electrochemical capacitors based on poly(3,4 ethylenedioxythiophene) and functionalized multi-walled carbon nanotubes characterized in aqueous and aprotic electrolytes, <i>Synthetic Metals</i> , 244 (2018) 80-91.	70	2018

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3.			
4.			
5.			

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.	"Beyond Li-ion Batteries: Novel, Efficient Electrode Materials for Sodium Ion Storage", National Science Centre, programme BEETHOVEN CLASSIC 3 (UMO-2018/31/G/ST5/02056), PI (polish side): Monika Wilamowska-Zawłocka, Gdańsk University of Technology, PI (german side): Magdalena Graczyk-Zajac,	2020-2023	PI
2.	"Hybrid energy storage devices based on composite materials for high power application" Foundation for Polish Science, programme REINTEGRATION (POIR.04.04.00-00-4582/17-00), PI: Monika Wilamowska-Zawłocka, Gdańsk University of Technology	2018-2020	PI
3.	"Silicon Oxycarbide (SiOC) as Anode Materials for Lithium Ion Batteries: Synthesis and Optimization of Ceramics Prepared by Sol-Gel Method" Foundation for Polish Science, programme HOMING PLUS (HOMING PLUS/2012-6/16), PI: Monika Wilamowska-Zawłocka, Gdańsk University of Technology	2013-2015	PI

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

PhD student will be working within the project "Beyond Li-ion Batteries: Novel, Efficient Electrode Materials for Sodium Ion Storage"

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)