

Prospective supervisor's form

Name of the supervisor: Agnieszka Pladzyk

Academic title: PhD DSc Eng

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Department of Inorganic Chemistry

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Discipline: chemical sciences [NCh] none

Optional

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

Spectroscopic methods for identification

Self-organizing single- and multi-core structures

coordination chemistry

catalytic, spectral and magnetic properties

Bibliometric indicators

1. Number of journal publications in WoS/ Scopus 29/29

2. Citations excluding self-citations WoS 188 Scopus 185

3. Hirsch index WoS 10 Scopus 10

1. The number of PhD students who have graduated under your supervision: 0

2. The number of PhD students currently supervised:

a. within the current doctoral school 0

b. within doctoral studies (previous system) 1

3. Are you currently accepting new PhD students:

a. Polish Yes/No Yes

b. Foreign Yes/No No

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

The research carried out concerns design, synthesis and characterization of new potential precursors of functional materials based on inorganic-organic skeleton which exhibit catalytic, luminescent and magnetic properties..

The proposed research topics in particular include:

- heterometallic thiolate complexes of transition metals as building blocks for coordination polymers,
- nickel complexes with a cluster structure
- mononuclear Co(II)-based complexes tetra- and pentacoordinated

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

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. | D. Kowalkowska-Zedler , A. Dołęga , N. Nedelko, R. Łyszczek, P. Aleshkevych, I. Demchenko, J. Łuczak , A. Ślawska-Waniewska, A. Pladzyk/ Structural, magnetic and spectral properties of tetrahedral cobalt(II) silanethiolates: a variety of structures and manifestation of field-induced slow magnetic relaxation/ Dalton Trans | 140 | 2019 |
| 2. | | | |

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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. | Search of new precursors for production of functional materials based on inorganic-organic skeleton. Heteroleptic silanethiolates of transition metals as coordination polymers". Agnieszka Pladzyk | 2011-2013 | PI |
| 2. | Triaryloxysilanethiols as building units of metallosulfur systems and ammonium thiolates. PI - prof. dr hab. inż. Anna Dołęga | 2010-2013 | Co-I |
| 3. | Functionalized organoxysilanes, organoxysilanethiols and organoxysilanols and their transition metal complexes. PI - prof. dr hab. inż. Anna Dołęga | 2014-2017 | Co-I |

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

The awards for PhD students currently supervised:

- 2016-2019 - doctoral scholarship
- 2016 and 2017 - Rector's scholarship for the best PhD student
- 2018/2019 - financing of the participation in a foreign scientific conference under the PROM programme - International scholarship exchange of PhD candidates and academic staff

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)