

Prospective supervisor's form

Name of the supervisor: Anna Dołęga

Academic title: Professor

Orcid ID number: <https://orcid.org/0000-0003-0509-2285>

Gdańsk University of Technology Faculty of Chemistry

Department of Inorganic Chemistry

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Discipline: chemical sciences [NCh] none

Optional

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

coordination chemistry

bioinorganic chemistry

silicon sulfur compounds

late transition metals

Bibliometric indicators

1. Number of journal publications in WoS/ Scopus 54

2. Citations excluding self-citations WoS 364 Scopus 393

3. Hirsch index WoS 14 Scopus 15

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 1

b. within doctoral studies 0

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

The supervisor is interested in the potential catalytic properties of transition metal complexes especially with regard to their enzymatic-like activity. The research includes the synthesis, spectral characterization (UV-Vis, FT-IR, NMR) determination of crystal structure and catalytic activity of transition metal complex. The necessary instrumentation is available at the Department. Recently she has started the studies on the synthesis of coordination polymers - mesoporous silica composites.

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.	P. Maślewski, D. Wyrzykowski, M. Witwicki, A. Dołęga: Histaminol and its complexes with copper(II) – studies in solid state and solution. Eur. J. Inorg. Chem. (2018) 1399-1408.	70	2018
2.	P. Mucha, M. Małecka, B. Kupcewicz, K. Lux, A. Dołęga, J. Jeziarska, E. Budzisz: Copper(II) complexes of 7-amino-2-methylchromone and 7-aminoflavone: magneto-structural, spectroscopic and DFT characterization. Polyhedron 153 (2018) 181-196.	100	2018

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3.	A. Mielcarek, A. Bieńko, P. Saramak, J. Jezierska, A. Dołęga: Cu/Zn heterometallic complex with solvent-binding cavity, catalytic activity for oxidation of 1-phenylethanol and unusual magnetic properties. Dalton Trans. 48 (2019) 17780-17791.	140	2019
4.	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. 49 (2020)	140	2020
5.	P. Maślewski, D. Wyrzykowski, W. Kentner, A. Ciborska, A. Dołęga: Coordination complexes of Mn(II), Co(II), Ni(II), Zn(II) and Cd(II) with histaminol – crystal structures and formation constants in aqueous solution. Polyhedron 178 (2020) 114328.	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.	Functionalized organoxysilanes, organoxysilanethiols and organoxysilanols and their transition metal complexes, Anna Dołęga, Gdansk University of Technology, project granted by the Polish National Science Centre (NCN)	2014-2017	PI
2.			PI
3.			PI

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



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)