

Dr Roztocki Kornel

Faculty of Chemistry, Adam Mickiewicz University

kornel.roztocki@amu.edu.pl

[Google Scholar](#)

Academic career

- 2020/Sep-currently: Assistant Professor, Faculty of Chemistry, Adam Mickiewicz University, Poland
- 2019/Dec-2020/Sep: Technical Staff, Faculty of Chemistry, Jagiellonian University in Kraków, Poland

Education

- 2014-2019 Jagiellonian University in Kraków, PhD, supervisor Prof. D. Matoga, summa cum laude
Awarded by polish Prime Minister as the best thesis in the field of chemistry
- 2012-2014 Jagiellonian University in Kraków, diploma: M.Sc. in Chemistry, **distinction**
- 2009-2012 Jagiellonian University in Kraków, diploma: B. Sc. in Chemistry

Internships

- 2022.05 University of Göttingen, 2 months
- 2022.02 Technical University Dresden, 2 months
- 2019.01 Technical University Dresden, 6 months
- 2018.06 Technical University Dresden, 3 months

Scientific projects

- Synthesis of Zn-MOF and Cd-MOF based on arylhydrazone and dicarboxylate linkers; National Science Centre (NCN, Poland, 1 year), **PI**
- Nanoengineering of multivariate flexible metal-organic frameworks (flexMOFs) for separation processes: versatile experimental and theoretical approach (NCN, Poland, 3 years, currently), **PI**

Organizational activity

- Chair of Young Investigator Symposium Committee, satellite event to “4th European Conference on Metal-Organic Frameworks and Porous Polymers”.

Lectures

1. 2022.05 University of Göttingen, Inorganic Chemical Lectures
2. 2022.02 Adam Mickiewicz University, Chemistry Faculty, Department Seminar
3. 2022.01 Wroclaw University of Science and Technology, Department Seminar
4. 2021.06 Adam Mickiewicz University, Center for Advanced Technology, Lecture

Award and scholarship

Foundation for Polish Science

START Award, 2021

Ministry of Science and Higher Education

Stipend for young, talented researchers, 2021-2023

Chancellery of the Prime Minister

The best thesis in the field of chemistry, 2019

Polish National Agency for Academic Exchange “PROM Program”

“International scholarship exchange of PhD candidates and academic staff” 2019

Rector scholarship for the best student

Jagiellonian University in Krakow, 2009 – 2017

Scholarship of Leading National Research Center "KNOW"
Leading National Research Center in Krakow, 2012 – 2014

Scholarship of Ministry of Science and Higher Education
Increasing of number well qualified graduates, 2009 – 2012

Finalist

Ecology Olympiad, Wolin, June 2009

Selected publications

1. Kornel Roztocki*, Wiktoria Gromelska, Filip Formalik, Alessia Giordana, Luca Andreo, Ghodrat Mahmoudi, Volodymyr Bon, Stefan Kaskel, Leonard J. Barbour, Agnieszka Janiak, Emanuele Priola; (<https://chemrxiv.org/engage/chemrxiv/article-details/636b522780c9bf06d18f501e>)
2. Roztocki K., Bon V., Senkovska I., Matoga D., Kaskel S.*, *Chem. Eur. J.* 2022, e202202255
3. Roztocki K*, Formalik F., Bon V., Krawczuk A., Kuchta B., Kaskel S., Matoga D.*, *Chem. Mater.* 2022, 34, 7, 3430–3439
4. Roztocki K.*, Rauche M., Bon V., Brunner E., Kaskel S., Matoga D.*, *ACS Appl. Mater. Interfaces* 2021, 13, 24, 28503–28513
5. Roztocki K., Szufła M., Bon V., Senkovska I., Kaskel S., Matoga D., *Inorg. Chem.* 2020, 59, 10717-10726
6. Roztocki K., Formalik F., Krawczuk A., Senkovska I., Kuchta B., Kaskel S., Matoga D., *Angew. Chem. Int. Ed.* 2020, 59, 4491
7. Roztocki K., Jędrzejowski D., Hodorowicz M., Senkovska I., Kaskel S., Matoga D., *Inorg. Chem.*, 2016, 55, 9663–9670.
8. Roztocki K., Jędrzejowski D., Hodorowicz M., Senkovska I., Kaskel S., Matoga D. *Cryst. Growth Des.*, 2018, 18 488–497.
9. Roztocki K., Lupa M., Sławek A., Makowski W., Senkovska I., Kaskel S., Matoga D., *Inorg. Chem.*, 2018, 57, 3287–3296.
10. Roztocki K., Szufła M., Hodorowicz M., Senkovska I., Kaskel S., Matoga D. *Crystal Growth and Design*, 2019, 19, 7160–7169
11. Roztocki K., Senkovska I., Kaskel S., Matoga D., *Eur. Journal of Inorganic Chemistry*, 2016 (27), 4450–4456.
12. Roztocki, K., Lupa, M., Hodorowicz, M., Senkovska, I., Kaskel, S., Matoga, D. *CrystEngComm* 20 (20), 2841–2849.
13. Sławek A., Roztocki K., Majda D., Jaskaniec S., Vlugt T. J. H., Makowski W., *Microporous and Mesoporous Materials* 2020, 110730.
14. Szufła M., Roztocki K., Krawczuk A., Matoga, D. *Dalton Trans.* 2020, 49 (29), 9953–9956

Patents

1. US 15/318,678, 2018.
2. PL 232317 B1.
3. EP 3 154 987 B1.

Selected International conferences

Oct 2022, Dresden, oral presentation

Germany 8th International Conference on Metal-Organic Frameworks and Open Framework Compounds

Oct, 2022, Rimini, Italy, oral presentation

44th International Conference on Coordination Chemistry

Dec 2019, Dresden, Germany, poster presentation

FlexMOF Symposium

Oct 2019, Paris, France, poster presentation

European Conference on Metal Organic Frameworks and Porous Polymers

Jun 2019, Villa del Grumello, Como, Italy, oral presentation
First International School on Advanced Porous Materials (MOFSchool)

May 2018, Academy Center TUM Raitenhaslach, Germany (poster presentation)
docMOF-2018: A PhD-run Symposium

Oct 2017, Delft, The Netherlands, poster presentation
European Conference on Metal Organic Frameworks and Porous Polymers

Oct 2015, Potsdam, Germany, poster presentation
European Conference on Metal Organic Frameworks and Porous Polymers

Jun 2014, Warsaw, Poland, poster presentation
International Symposium on Nanostructured Functional Materials

Workshops & training courses

Oct 2019
"The Lean Six Sigma Methodology" *Yellow Belt*, training

Jan 2019
"Microsoft Excel Level 3" *HCL Poland*, training

Oct 2019
"EuroMOF Young Investigator Symposium" *CNRS*, workshop

Oct 2018
"Working in a multicultural environment" *Alexander Man Solution*, workshop

Jun 2018
"Switchable Metal-Organic Frameworks" *TU Dresden (Germany)*, workshop

Nov 2017 – Jan 2018
"How to build a empathic workplace?" *Jagiellonian University*, workshop

May 2017
"Feedback - the key to your growth and development." *Philip Morris International*, workshop

Apr 2017 – May 2017
"Presentation and Moderation?" *Institute of Psychology Jagiellonian University*, workshop

Jun 2016
"The Self-Presenting" *Capgemini Corporation*, workshop

Feb 2016
"Time management training" *NC+ Company*, training

Jan 2016
"Power of Conversation; how to be successful?" *Tivron Company*, workshop