

## Dr Roztocki Kornel

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[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 (supervisor Professor Dietmar Stalke, 2 months)
- 2022.02 Technical University Dresden (supervisor Professor Stefan Kaskel, 2 months)
- 2019.01 Technical University Dresden (supervisor Professor Stefan Kaskel, 6 months)
- 2018.06 Technical University Dresden (supervisor Professor Stefan Kaskel, 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

- Cheer 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. **Roztocki K.**, Bon V., Senkovska I., Matoga D., Kaskel S.\*, *Chem. Eur. J.* 2022, e202202255
2. **Roztocki K\***, Formalik F., Bon V., Krawczuk A., Kuchta B., Kaskel S., Matoga D.\*, *Chem. Mater.* 2022, 34, 7, 3430–3439
3. **Roztocki K.\***, Rauche M., Bon V., Brunner E., Kaskel S., Matoga D.\*, *ACS Appl. Mater. Interfaces* 2021, 13, 24, 28503–28513
4. **Roztocki K.**, Szufła M., Bon V., Senkovska I., Kaskel S., Matoga D., *Inorg. Chem.* 2020, 59, 10717-10726
5. **Roztocki K.**, Formalik F., Krawczuk A., Senkovska I., Kuchta B., Kaskel S., Matoga D., *Angew. Chem. Int. Ed.* 2020, 59, 4491
6. **Roztocki K.**, Jędrzejowski D., Hodorowicz M., Senkovska I., Kaskel S., Matoga D., *Inorg. Chem.*, 2016, 55, 9663–9670.
7. **Roztocki K.**, Jędrzejowski D., Hodorowicz M., Senkovska I., Kaskel S., Matoga D. *Cryst. Growth Des.*, 2018, 18 488–497.
8. **Roztocki K.**, Lupa M., Sławek A., Makowski W., Senkovska I., Kaskel S., Matoga D., *Inorg. Chem.*, 2018, 57, 3287–3296.
9. **Roztocki K.**, Szufła M., Hodorowicz M., Senkovska I., Kaskel S., Matoga D. *Crystal Growth and Design*, 2019, 19, 7160–7169
10. **Roztocki K.**, Senkovska I., Kaskel S., Matoga D., *Eur. Journal of Inorganic Chemistry*, 2016 (27), 4450–4456.
11. **Roztocki, K.**, Lupa, M., Hodorowicz, M., Senkovska, I., Kaskel, S., Matoga, D. *CrystEngComm* 20 (20), 2841–2849.
12. Sławek A., **Roztocki K.**, Majda D., Jaskaniec S., Vlugt T. J. H., Makowski W., *Microporous and Mesoporous Materials* 2020, 110730.
13. 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

Dec 2019, Dresden, Germany (**poster presentation**)

FlexMOF Symposium

“Multivariate flexible JUK-8X materials: control of gate opening and quest for spatial distribution of linkers”

Oct 2019, Paris, France (**poster presentation**)

European Conference on Metal Organic Frameworks and Porous Polymers

“Eightfold Interpenetrated Zinc MOF: Gated Adsorption, Structural Dynamics and Resistive Sensing”

Jun 2019, Villa del Grumello, Como, Italy (**oral presentation**)

First International School on Advanced Porous Materials (MOFSchool)

“From scratch to water threshold sensor. Versatile theoretical and experimental insights into dynamic eight-fold interpenetrated Zn-MOF”

May 2018, Academy Center TUM Raitenhaslach, Germany (**poster presentation**)

docMOF-2018: A PhD-run Symposium

*"Water stable metalorganic framework with three hydrogen-bond acceptors: versatile theoretical and experimental insights into adsorption ability and thermo-hydrolytic stability"*

Oct 2017, Delft, The Netherlands (**poster presentation**)

European Conference on Metal Organic Frameworks and Porous Polymers

*"Syntheses, structures and guest induced properties of a cadmium mixed-ligand MOF based on isonicotinoyl hydrazone and diphenyl sulfone 4,4'-dicarboxylic acid"*

Oct 2015, Potsdam, Germany (**poster presentation**)

European Conference on Metal Organic Frameworks and Porous Polymers

*"Syntheses, structures and properties of zinc pillared-layered MOFs based on isonicotinoyl hydrazone and various dicarboxylate acids"*

Jun 2014, Warsaw, Poland (**poster presentation**)

International Symposium on Nanostructured Functional Materials

*"Synthesis and properties of heterometallic (Mn-Zn) and homometallic (Zn) MOFs based on isonicotinoyl hydrazones"*

## **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