

# CURRICULUM VITAE

## ■ Personal information

**First name(s) / Surname(s):** **Monika Agnieszka Motak**  
**Tel.:** +48 12 617 21 23  
**Kom.:** +48 885 989 188  
**E-mail:** [motakm@agh.edu.pl](mailto:motakm@agh.edu.pl)



## ■ Education and training

**13. 12. 2016** Dr. habil. (technical sciences - environmental engineering) Central Mining Institute, Katowice

**27. 01. 2003** Doctor of Technical Sciences, Chemical Technology AGH-UST, Kraków

**1989 – 1994** Master of Science, Faculty of Chemistry, Spec: industrial and environmental analytics Jagiellonian University, Kraków

## ■ Desired employment / Occupational field

**2020 – to present** Vice Dean of Faculty of Energy and Fuels, AGH-University of Science and Technology, Al. A. Mickiewicza 30, PL-30059 Kraków (Poland)

**2019 – to present** Professor AGH-University of Science and Technology, Faculty of Energy and Fuels  
Al. A. Mickiewicza 30, PL-30059 Kraków (Poland)

**2017 – to present** Leader of the Group for Catalytic and Adsorption Processes in Energy and Environmental Protection Department of Fuel Technology | Faculty of Energy and Fuels AGH University of Science and Technology

**2015** Invited professor Sorbonne Universités, CEPT Group, D'Alembert, UPMC

**2003 – 2018** Assistant professor, AGH-University of Science and Technology, Faculty of Energy and Fuels, Al. A. Mickiewicza 30, PL-30059 Kraków (Poland)

**1994 – 2003** Junior member of teaching and research staff (assistant) AGH-University of Science and Technology, Faculty of Energy and Fuels Al. A. Mickiewicza 30, PL-30059 Kraków (Poland)

## ■ Scientific interests

- Research on the use of nano-oxide materials based on nickel modified hydrotalcite as catalysts for dry reforming of methane (DRM), trireforming and methanation.
- The optimization of the methods of preparation of active and selective catalyst for DeNOx process obtained by the intercalation of natural montmorillonite with aluminium oxide and modification with carbon layer, containing incorporated copper operating at temperature range below 300°C
- The optimization of the methods of preparation of active and selective catalyst for DeNOx process based upon transition metal-doped hydrotalcite operating at low temperature range.
- Development of preparation methods of active and selective catalysts based on modified layered aluminosilicate containing copper as catalytically active component for the oxidation of volatile organic compounds (VOCs).
- Development of preparation of catalysts based upon copper modified hydrotalcite for CO oxidation.

## ■ Scientific Internships

### CURRENT PROGRAMS

- Sorbonne University, Paris, France

Studies on DRM, tri-reforming and methanation catalysts, catalytic oxidation systems for VOCs removal.

- Technical University of Valencia, Spain

Preparation and characterization of catalysts based on zeolites for DeNOx.

- Instituto Superior Tecnico (IST) in Lisbon, Portugal

Development of catalysts for the preparation of DME, catalytic oxidation systems for VOCs removal.

- Jagiellonian University in Krakow, Poland

Research on the application of hydrotalcites and vermiculites as sorbents for nickel removal and mesoporous materials for DeNOx catalysts.

- Łukasiewicz Research Network – New Chemical Syntheses Institute - tests of DeNOx catalysts on a quarter-technical scale
- PGE Energia Ciepło - developing a model DeNOx catalyst destruction.

## PROGRAMS COMPLETED

- International program GDRI 2007–2014 (Groupe De Recherche International)
- Institute for Chemical Processing of Coal (ICHPW) in Zabrze, Poland
- Lille University of Science and Technology, France 2008 - 2015
- Leipzig University 2006–2012
- The Nicolaus Copernicus University in Torun (NCU), Poland 2004 – 2008
- Participation in the catalytic network 1998–2003

## ■ Publications

Author and co-author over 250 publications, including 69 articles and 9 chapters in journals with the total IF about 130, H factor 18 (according to Scopus), 860 citation (april 2020).

## ■ Internships

### **X–XII 2004**

Scholarship funded by the Foundation for Polish Science

The Nicolaus Copernicus University in Toruń

### **IX–XI 2006, II 2007**

Scientific internship within the framework of international cooperation in science and research

Leipzig University, Germany

### **VI 2010, V–VII 2012**

CEPT group, D'Alembert, Pierre and Marie Curie University in Paris

Training within the ERASMUS Program

### **IX/X 2015**

CEPT group, D'Alembert, Pierre and Marie Curie University in Paris

Visiting professor

## ■ Technical skills and competences

Microsoft Office: Excel, Word, Power Point

## ■ Additional Information

### **AWARDS:**

Third-Class Rector's Award for individual academic achievements:

- 2003
- 2009

Second-Class Rector's Award for individual academic achievements:

- 2012
- 2016
- 2017

Second-Class Rector's Award for team organizational achievements:

- 2015
- 2019