



CzePoCat 2025

13th Czech-Polish Catalytic Symposium

February 7, 2025 from 8:30 to 22:00

Meeting room UA2, Aula VSB-Technical University of Ostrava

Program

8:30 – 8:55 – Registration

8:55 – 9:00 – Lucie Obalová, (VSB-Technical University of Ostrava)

Opening speech

1. Section

Chairman: David Kubička (University of Chemistry and Technology)

9:00 – 9:30 – Ondřej Drábek (Czech University of Life Sciences Prague)

Aluminum great material for catalysis - dark side of the story

9:30 – 9:45 – Tereza Motúzová (VSB-Technical University of Ostrava)

Removal of selected pesticides from water by various methods

9:45 – 10:00 – Wiktoria Dubiel (Jagiellonian University in Krakow)

Influence of titanium species type in siliceous beta zeolite on their catalytic activity in the selective diphenyl sulphide oxidation with hydrogen peroxide

10:00 – 10:15 – Paulina Gwóźdź (AGH Krakow)

Catalytic and photocatalytic potential of the Fe/Co-doped CaTiO₃-SrTiO₃ system

10:15 – 10:30 – Andrzej Wójtowicz (Jagiellonian University in Krakow)

Ceria-based Catalysts for Soot Combustion: Effects of Synthesis Method and Potassium Doping

10:30 – 11:00 – Coffee break

2. Section

Chairman: Joanna E. Olszowka (J. Heyrovský Institute of Physical Chemistry, Prague)

11:00 – 11:15 – Sylwia Gnyla (Jagiellonian University in Krakow)

Cobalt-nickel catalysts deposited on oxide-graphene supports for ammonia decomposition

11:15 – 11:30 – Divya Kumar (Jagiellonian University in Krakow)

Exploring Plasmas Functionalization of Graphenic Surfaces: Experiments, theoretical insights and applications

11:30 – 11:45 – Aleksandra Gomułka (Jagiellonian University in Krakow)

Copper-modified mesoporous silicas as effective catalysts for low-temperature NH₃-SCR: a comparative study of TIE and ADP methods

11:45 – 12:00 – Sridhar Gowrisankaran (Comenius University Bratislava)

Ferrites with oxygen vacancies: on the mechanistic elucidation of oxidant activation for water treatment

12:00 – 12:15 – Karolina Zajac (Jagiellonian University in Krakow)

Photocatalysis in Practice: nTiO₂ on Polypropylene Surfaces

12:15 – 13:30 – Lunch

3. Section

Chairman: Olivier Monfort (Comenius University Bratislava)

13:30 – 14:15 – Jiří Dědeček (J. Heyrovský Institute of Physical Chemistry, Prague)

Green Deal as an Energy Frame of the Future of the Czech Chemical Industry

14:15 – 14:30 – Maria Adamska (Jagiellonian University in Krakow)

New insights into g-C₃N₄-Co_xO_y photocatalytic system

14:30 – 14:45 – Lei Wang (Jagiellonian University in Krakow)

Development of inverse opal titania photocatalytic films

14:45 – 15:00 – Rudolf Ricka (VSB-Technical University of Ostrava)

Defective TiO₂ for Photocatalytic CO₂ Reduction: Influence of Alkaline Agent and Reduction Temperature Modulation

15:00 – 15:30 – Coffee break

4. Section

Chairman: Roman Bulánek (University of Pardubice)

15:30 – 15:45 – Karolina Simkovicova (J. Heyrovský Institute of Physical Chemistry, Prague)

Insights Into Particle-Support Interactions and Their Role in CO₂ Hydrogenation Catalysis

15:45 – 16:00 – Yongqiang Fu (Poznan University of Technology)

Photocatalytic activity of polyaniline/TiO₂ heterostructures

16:00 – 16:15 – Yilan Zeng (Comenius University Bratislava)

Titanium Dioxide and Its Many Faces: Stability, Efficiency, and the Unknown

16:15 – 22:00 – Discussion and closing ceremony

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