



Katalytický seminář IV (on line MS Teams)

Session I (8. 2. 2021)

9:00 – 9:05 – Roman Bulánek (UPa)
Opening and introductory note

Chairman: Kateřina Pacultová (VŠB)

9:05 – 9:20 – Olga Gorlova (VŠCHT)
Preparation and application of metal-modified mixed oxides as catalysts for Baeyer-Villiger oxidation

9:20 – 9:35 – Karolína Simkovičová (ÚFCH JH)
Conversion of CO₂ on nanostructured catalysts

9:35 – 9:50 – Jáchym Mück (UPa)
The potential of MgAl mixed oxides for production of petrochemicals with add value from ethanol

9:50 – 10:05 – Yuyan Zhang (PřF UK)
Reductive deconstruction of organosolv lignin by palladium-hierarchical MFI nanocomposite

10:05–10:20 – Jakub Halamek (UPa)
Separation of hydrocarbon mixtures in important catalytic processes using zeolites

10:20–10:35 – Coffee break

Chairman: Eliška Vyskočilová (VŠCHT)

10:35–10:50 – Violetta Pospelova (VŠCHT)
The effect of synthesis method on Cu/ZnO properties and activity

10:50–11:05 – Jaroslav Aubrecht (VŠCHT)
How to modify Cu-catalysts for ester hydrogenolysis?

11:05–11:20 – Ondřej Veselý (PřF UK)
Preparation of aluminosilicate zeolite UTL by reverse ADOR approach

11:20–11:35 – Lenka Hašková (VŠCHT)

Aldol condensation of butanal with cinnamaldehyde followed by hydrogenation

11:35–11:50 – Kateřina Zítová (VŠCHT)

Hydration of terpenes

Session II (15. 2. 2021)

9:00 – 9:05 – David Kubička (VŠCHT)

Opening

Chairman: Pavel Čičmanec (UPa)

9:05 – 9:50 – Michal Mazur (PřF UK)

Electron microscopy methods for characterisation of ZEOLITE catalysts

9:50 –10:05 – Jan Vaculik (UPa)

Probing of reactivity of external and intrazeolitic Bronsted acid groups by H/D isotopic exchange

10:05 –10:20 – Oldřich Kotyza (VŠCHT)

Incorporation of polar functional groups into polyolefin chain

10:20 –10:35 – Coffee break

Chairman: Jan Přech (PřF UK)

10:35–10:50 – Bogdan Shumeiko (VŠCHT)

Hydrogenation - perspective route for bio-oil upgrading

10:50–11:05 – Martina Kubíková (UPOL)

CO₂ hydrogenation on iron-based catalysts

11:05–11:20 – Jiří Kotera (UPa)

Study of the reactivity of acid centers in zeolites

11:20–11:35 – Valeria Korolova (VŠCHT)

The impact of rehydration on the catalytic behavior of Mg-Al hydrotalcites in aldol condensation

11:35–11:50 – Stanislav Valtera (ÚFCH JH)

Subnanometer cluster-based catalysts for highly selective oxidative dehydrogenation of alkenes

11:50–12:05 – Anastasia Kurbanova (PřF UK)

Synthesis of Fe@zeolite composite hydrogenation catalysts by reductive demetallation of Fe-zeolites