

POSTERS

Preferred size of posters A0 or w90 x h120 cm

1. Homogeneous catalysis

- P-1.1 Chitosan, a natural ligand for highly enantioselective Ru catalysed transfer hydrogenation of ketones
V. J. Kolesár, Gy. Szöllősi
- P-1.2 Hydrogenation of butyl sorbate using ruthenium complexes
M. Kotova, E. Vyskočilová, L. Červený
- P-1.3 Diastereoselective Synthesis of Planar Chiral Ferrocens via Pd-Catalyzed Direct C-H Activation
Kristína Plevová, Brigita Mudráková and Radovan Šebesta
- P-1.4 Study of glycerol carbonate formation from urea and glycerol and its subsequent reaction by cellulose containing fibers
L. Bračiková, A. Kaszonyi, L. Lépesová, M. Štolcová
- P-1.5 Study of ethoxylation of acetylenic alcohol, 2,4,7,9-tetramethyl-5-decyne-4,7-diol
R. Pastorek, A. Kaszonyi

2. Heterogeneous catalysis

- P-2.1 Aerobic oxidation of 4-methylanisole over N-hydroxyphthalimide species distributed in copolymer of vinyl-diisopropyl-phthalate ester, styrene and divinylbenzene
T. Berniak, P. Łątka, M. Drozdek, E. Witek, P. Kuśtrowski
- P-2.2 Application of Tapered Element Oscillating Microbalance (TEOM) in simultaneous studies of catalyst coking and activity
M. Cichy, T. Borowiecki
- P-2.3 Comparison of oxidative dehydrogenation of ethanol to acetaldehyde over VO_x/ZrO₂ and VO_x@MIL-101 catalysts
P. Čičmanec, J. Kotera, I. Boldog, Z. Tišler, R. Bulánek
- P-2.4 Utilization of Ni-modified hydrotalcite-like compounds for aldol condensation of cyclopentanone and valeraldehyde
Fidlerová B., Mašatová M., Paterová I., Červený L.
- P-2.5 Operando Studies of Ethanol Selective Oxidation on Supported Bimetallic Gold Catalysts
A. Nagl, S. Mostrou-Moser, J. De Vrieze, G. Dražić, M. Saeys, J. van Bokhoven, K. Föttinger
- P-2.6 Preparation Co/SSZ-13 zeolite catalysts for CH₄/NO-SCR reaction by the solid-state reaction of the zeolite with different Co-compounds
R. Charrad, F. Ayari, H.E. Solt, F. Lónyí, J. Valyon, M. Mhamdi and Z. Ksibi
- P-2.7 Cracking of Hexane over high density acid sites Al-rich BEA zeolites
D. Kaucký, J. Morávková, J. Pastvová, R. Pilař, P. Sazama
- P-2.8 Selective catalytic flow hydrogenation of nitrocyclohexane
E. Kowalewski, A. Śrębowata
- P-2.9 Asymmetric Michael additions using heterogenized chiral 1,2-diamine catalysts
V. Kozma, Gy. Szöllősi
- P-2.10 Metal-free carbon catalysts for the liquid phase oxidation of cyclopentanone and cyclohexanone to corresponding dicarboxylic acids by molecular oxygen
D. Gašparovičová, M. Králik, T. Soták, M. Hronec
- P-2.11 Biogas transformation in Syngas catalyzed by alumina supported nickel catalysts with bimodal pore structure
M.D. Lazar, M. Dan, M. Mihet
- P-2.12 Support effect of Au catalysts in aerobic benzyl-alcohol oxidation: effect of acid-base properties

- G. Nagy, D. Srankó, K. Lázár, G. Sáfrán, A. Beck, S. Liu, T. Li, H. Tang, B. Qiao, R. Ge, J. Wang
- P-2.13 Heterogeneous catalytic hydroconversion of gamma-valerolactone
 Gy. Novodárszki, M. R. Mihályi, J. Hancsók, D. Deka, J. Valyon
- P-2.14 Immobilized heterogeneous binuclear [Cu^{II}La^{III}] complexes as non-precious metals catalysts
 I. Podolean, V. I. Parvulescu, M. Andruh
- P-2.15 The influence of NO_x presence on the catalytic N₂O decomposition over the supported double promoted cobalt spinel catalyst
 J. Rajewski, M. Inger, M. Ruzsak, M. Wilk
- P-2.16 Heterogeneous asymmetric Michael additions catalyzed by proline-inorganic oxide hybrid materials
 Gy. Szöllösi, A. Zs. Mogyorós, D. Gombkötő, B. Fancsali, V. J. Kolcsár, V. Kozma, G. Köhl
- P-2.17 Conversion of ethanol to 1-butanol over MgO-Al₂O₃ mixed oxide based catalysts
 Anna Vikár, Ferenc Lónyi, József Valyon
- P-2.18 Co₃O₄/Al₂O₃/cordierite catalyst for N₂O abatement prepared via SCS
 S. Wójcik, G. Ercolino, M. Gajewska, G. Grzybek, S. Specchia, A. Kotarba
- P-2.19 Study of reaction of urea and polysaccharides with aim to create new bonds in the polysaccharide structure
 Z. Ondrášková, A. Kaszonyi, L. Lépesová, M. Štolcová
- P-2.20 Study of reaction of urea and cellulose with aim to create new bonds in the structure of cellulose
 M. Šarinová, A. Kaszonyi, L. Lépesová, M. Štolcová

3. Organocatalysis

- P-3.1 Synthesis of chiral pyrrolidines via organocatalytic Michael addition
 Stanislav Bilka, Radovan Šebesta
- P-3.2 New *N*-sulfinyl (Thio)Ureas as bifunctional Catalysts for the Synthesis of chiral 3,4-substituted Pyrrolidine Derivatives
 Dominika Krištofiková, Katarína Čurová, Mária Mečiarová, Radovan Šebesta
- P-3.3 Green Synthesis of Warfarin using Bifunctional Squaramide Organocatalysts
 Viktória Modrocká, Eva Veverková, Mária Mečiarová, Radovan Šebesta

4. Environmental catalysis and photocatalysis

- P-4.1 Photodegradation of methyl-parathion by a carbon-doped zinc oxide
 Slavomír Adamec^a, Jakub Ederer^a, Martin Šťastný^b, Michaela Š. Slušná^b, Pavel Janoš^a
- P-4.2 Preparation and characterization of LaN-TiO₂ photocatalysts active in photocatalytic decomposition of methanol
 L. Dubnová, I. Troppová, M. Edelmannová, L. Matějová, M. Reli, H. Drobná, A. Rokicińska, P. Kuśtrowski, L. Čapek, K. Kočí
- P-4.3 Photocatalytic decomposition of ammonia over La or Nd doped TiO₂ in powder form and immobilized form on foam
 M. Edelmannová, L. Matějová, M. Reli, I. Troppová, J. Lang, L. Dubnová, L. Čapek, P. Kustowski, K. Kočí
- P-4.4 Comparison of product distribution during catalytic cracking of pure and waste polypropylene
 B. Jambor, L. Janečková, E. Hájeková, P. Benžová, M. Horňáček
- P-4.5 Textural, structural, acid and basic properties of Co-containing Mg-Al Hydrotalcites
 Pavol Hudec, Michal Horňáček, Vladimír Jorík, Jozef Mikulec
- P-4.6 Preparation and properties of K-promoted Co-Mn-Al mixed oxides for direct NO decomposition
 K. Jirátová, K. Pacultová, J. Balabánová, K. Karásková, A. Klegová, L. Obalová
- P-4.7 Role of oxygen in NO direct decomposition over K/Co-Mg-Mn-Al mixed oxide catalyst

- A. Klegova, K. Pacultová, K. Karásková, T. Bílková, D. Fridrichová, L. Obalová
- P-4.8 Promotion of transition metal oxides by alkali towards low-temperature soot combustion
T. Jakubek, W. Kaspera, C. Hudy, S. Zieliński, P. Legutko, P. Indyka, Z. Sojka, A. Kotarba
- P-4.9 Characterization of lanthanide doped TiO₂ photocatalysts
V. Meinhardová, H. Drobná, M. Edelmannová, I. Troppová, M. Reli, L. Matějová, L. Dubnová, A. Rokicińska, P. Kuśtrowski, L. Čapek, K. Kočí
- P-4.10 Magnesium effect in K/Co-Mg-Mn-Al mixed oxide catalyst for direct NO decomposition
K. Karásková, K. Pacultová, T. Bílková, A. Klegová, D. Fridrichová, L. Obalová
- P-4.11 Photocatalytic degradation of phenols in water by titania immobilized on clay particles
Á. Szegedi, E. Décsiné Gombos, Á. Illés, S. Dóbbé
- P-4.12 Preparation, characterization and photoinduced activity of N-doped 2D-anatase nanostructures
E. Pližingrová, Z. Barbieriková, V. Brezová, M. Motlochová, J. Kupčík, J. Krýsa, J. Jirkovský, J. Šubrt
- P-4.13 Elimination of ammonia from livestock houses using photochemical oxidation
T. Prostějovský, M. Reli, I. Troppová, T. Konečná, R. Žebrák
- P-4.14 Photocatalytic decomposition of N₂O by using nanostructured g-C₃N₄/BiIO₄ photocatalysts
M. Reli, M. Šihor, J. Pavlovský, P. Praus, K. Kočí
- P-4.15 Photocatalytic decomposition of methyl tert-butyl ether (MTBE) by using doped titanium dioxide photocatalysts
M. Šihor, L. Matějová, M. Reli, K. Hrádková, K. Kočí
- P-4.16 Methane dry reforming over carbonaceous catalysts
Z. Zikmund, P. Lestinsky
- P-4.17 Study of the Thermochemical decomposition of Biomass in the Microreactor Connected on-line to GC-MS System
V. Staňová, A. Kaszonyi, L. Lépesová, M. Štolcová
- P-4.18 Bimetallic Pd-Au nanoparticles as catalyst for selective oxidation of 1,2-propanediol to lactic acid under atmospheric pressure
A. Tušeková, M. Štolcová, A. Kaszonyi, L. Lépesová

6. Catalysis related materials, nanostructures and characterization

- P-6.1 Synthesis and characterization of CuO-modified nanostructured Al₂O₃ catalysts for toluene combustion
A. Rokicińska, T. Berniak, M. Drozdek, A. Węgrzyniak, P. Michorczyk, P. Kuśtrowski
- P-6.2 Surface science studies of modified Co₃O₄(111) thin films
T. Haunold, C. Rameshan, G. Rupprechter
- P-6.3 Hierarchical structured materials prepared by recrystallization of zeolites ZSM-5
M. Horňáček, P. Mikolaj, P. Hudec
- P-6.4 Hierarchical MOF@Al₂O₃ composites – influence of synthesis conditions on the growth of benzenedicarboxylate-based MOFs on γ-Al₂O₃
O. Grad, M. Mihet, M.D. Lazar, G. Blanita
- P-6.5 Amorphous Lithium, Sodium And Potassium Metatitanates And The Application As Heavy Metal Adsorbents
Monika Motlochová, Eva Pližingrová, Mariana Klementová, Václav Slovák, Jan Šubrt
- P-6.6 Effect of transition metals in M^{II}M^{III}₂(P₂O₇)₂ and M^{II}₅Fe^{III}₂(P₂O₇)₄ pyrophosphates on acidic and redox properties: Correlation to catalytic activities for methane selective oxidation
V. Hergelová, M. Štolcová, A. Kaszonyi, L. Lépesová
- P-6.7 Effect of various organic compounds addition in combustion synthesis on the catalytic properties of Cu-Fe-P-O nanostructures. Methane selective oxidation to formaldehyde and methanol was the tested reaction

V. Hergelová, M. Štolcová, A. Kaszonyi, L. Lépesová

P-6.8 Nanostructured copper manganese catalysts for steam reforming of methanol

W. Zawadzki, G. Słowik, W. Gac

7. Biocatalysis

P-7.1 Peroxidase-based biocatalysis for allylic oxidation of (+)- α -pinene in order to obtain verbenol and verbenone

M. Tudorache, C. Sora

P-7.2 Biocatalytic conversion of waste glycerol in presence of organic co-solvents

C. Lite, M. Tudorache, Vasile I. Parvulescu