

DETAILED SCIENTIFIC PROGRAM

Tuesday, 26th of June, 2018

13:00-15:00 Registration

15:00-15:20 Opening session

15:20-16:00 **KN1** “Oxidative dehydrogenation over nanocarbons: Recent mechanistic study”
Siglinda Perathoner and Gabriele Centi (*Università degli Studi di Messina, Italy*)
Dangsheng Su (*Dalian Institute of Chemical Physics, China*)

16:00-16:40 **KN2** “Going green with black: Oxygen reduction carbon electrocatalysts”
Magdalena Titirici (*Queen Mary University of London, United Kingdom*)

16:40-17:00 **OC1** “Involvement of Pd single atoms in Pd/C catalyzed terpene hydrogenation in continuous reactor”
Philippe Serp (*LCC-CNRS, France*)

17:00-17:20 **OC2** “Carbon-supported Au nanoparticles: Catalytic activity ruled out by carbon support”
Laura Prati (*Università degli Studi di Milano, Italy*)

17:20-17:40 **OC3** “Acid porous carbons involved in the green synthesis of benzodiazepines”
Inês Matos (*LAQV/REQUIMTE, Portugal*)

17:40-18:00 **OC4** “Sustainable carbocatalyst with atomically dispersed Fe-N-P-C complex active sites for superior oxygen reduction”
De Chen (*Norwegian University of Science and Technology, Norway*)

18:00-20:00 Welcome reception

Wednesday, 27th of June, 2018

- 09:00-10:00 **PL1** “Catalysis using carbon-based nanomaterials”
Graham Hutchings (*Cardiff Catalysis Institute, United Kingdom*)
- 10:00-10:20 **OC5** “Carbon supported metal-carbides and metal-phosphides for biomass-based conversions”
Johannes Hendrik Bitter (*Wageningen University, The Netherlands*)
- 10:20-10:40 **OC6** “Effect of the nature of carbon support in Pd/C catalysts on the reaction routes of aqueous-phase hydrogenation of furfural”
Roman Mironenko (*Institute of Hydrocarbons Processing, Russia*)
- 10:40-11:10 Coffee break**
- 11:10-11:30 **OC7** “Aziridine functionalized carbon nanotubes as highly efficient electrocatalysts for the selective CO₂ reduction to CO”
Giuliano Giambastiani (*ICCOM-CNR, Italy*)
- 11:30-11:50 **OC8** “Palladium-nickel on tin oxide-carbon composite supports for electrocatalytic hydrogen evolution”
César Sequeira (*CeFEMA/IST, Portugal*)
- 11:50-12:10 **OC9** “Nitrogen-doped carbon materials derived from cellulose for the oxygen reduction reaction”
Martin Muhler (*Laboratory of Industrial Chemistry, Germany*)
- 12:10-12:30 **OC10** “Cu and Pd nanoparticles supported on a graphitic carbon material as bifunctional HER/ORR electrocatalysts”
Diana Fernandes (*REQUIMTE/LAQV, Portugal*)
- 12:30-12:50 **OC11** “Bifunctional oxygen reduction/evolution activity of Fe/Co/Ni mixed oxide nanoparticles supported on oxidized carbon nanotubes”
Mariya Kazakova (*Novosibirsk State University, Russia*)
- 12:50-14:00 Lunch break**
- 14:00-14:20 **OC12** “Graphene aerogels as catalyst support for nanodiamonds and metal nanoparticles”
Enrique García-Bordejé (*ICB-CSIC, Spain*)
- 14:20-14:40 **OC13** “Tomography analysis of Ru supported on micro and mesoporous carbon: A correlation between morphology and catalytic activity”
Marta Stucchi (*Università degli Studi di Milano, Italy*)
- 14:40-15:00 **OC14** “Cobalt catalysts on graphene nanoflakes and carbon nanotubes in Fischer-Tropsch synthesis: effect of the support oxidation and N-doping”
Sergei Chernyak (*Lomonosov Moscow State University, Russia*)

- 15:00-16:00 Short oral communications
- SOC1** “Confinement of iron and promoters in carbon nanotubes for direct selective synthesis of lower olefins from syngas over Bi and Pb promoted iron catalysts”
Bang Gu (*University of Lille, France*)
- SOC2** “Manganese promoter effects in carbon-supported copper-based ester hydrogenation catalysts”
Rolf Beerthuis (*Debye Institute for Nanomaterials Science, The Netherlands*)
- SOC3** “Highly selective conversion of methanol to propylene: design of a MFI zeolite with selective-blockage of (010) surfaces”
Dali Cai (*Tsinghua University, China*)
- SOC4** “Hydrodeoxygenation of vanillin over carbon supported noble metal catalysts”
Jose Santos (*Instituto de Ciencia de Materiales de Sevilla, Spain*)
- SOC5** “Tracking the paths for the sucrose transformations over bifunctional Ru-POM/AC catalysts”
Nadia Bosch (*UNED, Spain*)
- SOC6** “Tailoring the catalytic properties of Mo₂C/CNF catalysts for the HDO of guaiacol: Influence of carburization time”
Elba Ochoa (*ICB-CSIC, Spain*)
- SOC7** “Au nanoparticle size control over few layer graphenes”
Valérie Caps (*ICPEES, France*)
- SOC8** “Development of mesoporous, graphitic carbons as flexible catalyst platform for metal-free oxidative dehydrogenation reactions”
Felix Herold (*Technische Universität Darmstadt, Germany*)
- SOC9** “Bayer-Villiger oxidation and esterification reaction catalyzed by sawdust biochar”
Tiago Duarte (*CQE/IST, Portugal*)
- SOC10** “Nickel nanoparticles decorated nitrogen doped carbon nanotubes as an efficient catalyst for CO₂ methanation”
Wei Wang (*ICPEES, France*)
- SOC11** “Photocatalytic behaviour of ZnO nanoparticles and their composites with graphene”
Sandra Román (*ICB-CSIC, Spain*)
- SOC12** “Carbon-supported Cu and Cu₂O nanoparticles for CO₂ electroreduction”
Marisol Rosales (*Debye Institute for Nanomaterials Science, The Netherlands*)

16:00-17:00 Posters & Coffee break

- 17:00-17:20 **OC15** “Comparative study of CoMo/MWCNT and CoMo/Al₂O₃ hydrotreating catalysts prepared with citric acid”
Maxim O. Kazakov (*Boreskov Institute of Catalysis, Russia*)
- 17:20-17:40 **OC16** “N-decorated carbon nanotubes as a metal-free heterogeneous catalyst for mild CO₂ chemical reduction to methanol”
Tuci Giulia (*ICCOM-CNR, Italy*)
- 17:40-18:00 **OC17** “Fine-tuning of metal-carbon complex catalysts: Learning from natural catalysts”
Xuezhi Duan (*State Key Laboratory of Chemical Engineering, China*)

Thursday, 28th of June, 2018

- 09:00-10:00 **PL2** “Carbon-supported catalysts – Assembly, characterization and performance”
Krijn P. de Jong (*Utrecht University, The Netherlands*)
- 10:00-10:20 **OC18** “Direct formation of nanometals and nanooxides within pristine bulk graphitic matrices”
Valérie Caps (*ICPEES, France*)
- 10:20-10:40 **OC19** “The tunable effects of dopants on the nanostructured carbon on the catalytic property of the supported single metal atom catalysts revealed from first principle calculations”
Bo Li (*Institute of Metal Research, China*)
- 10:40-11:10 Coffee break**
- 11:10-11:30 **OC20** “Pd nanoparticles supported on functionalized carbon nanotubes for the liquid-phase aerobic oxidation of ethanol”
Baoliang Peng (*Laboratory of Industrial Chemistry, Germany*)
- 11:30-11:50 **OC21** “Surface functionalized carbon nanotubes as molecular oxygen carrier for liquid-phase aerobic oxidation reaction”
Yuefeng Liu (*Dalian National Laboratory for Clean Energy, China*)
- 11:50-12:10 **OC22** “Macroscopic oxidized graphite felts containing palladium nanoparticles as an efficient liquid-phase hydrogenation catalyst with easy recovery”
Zhenxin Xu (*ICPEES, France*)
- 12:10-12:30 **OC23** “Strong effect of the surface properties of carbon supports in Au-catalyzed reactions”
Baira Donoeva (*Debye Institute for Nanomaterials Science, The Netherlands*)
- 12:30-12:50 **OC24** “Nanocarbons as supports for the gold catalyzed glycerol oxidation”
Ana Paula Ribeiro (*CQE/IST, Portugal*)
- 12:50-14:00 Lunch break**
- 14:00-15:00 **PL3** “Carbon materials in chemical energy conversion”
Robert Schlögl (*Fritz Haber Institute of the Max Planck Society, Germany*)
- 15:00-15:20 **OC25** “Metal free oxidation of glycerol over nitrogen containing carbon nanotubes”
Alberto Villa (*Università degli Studi di Milano, Italy*)
- 15:20-15:40 **OC26** “Tuning properties of ultrafine Pd nanoparticles supported on multiwalled carbon nanotube”
Zinifer Ismagilov (*Institute of Coal Chemistry and Materials Science, Russia*)
- 15:40-16:00 **OC27** “Au/C catalysts for 2,5-furandicarboxylic acid production”
Svetlana Ivanova (*Instituto de Ciencia de Materiales de Sevilla, Spain*)
- 16:00-17:00 Posters & Coffee break**
- 17:40-20:30 Social event**
- 20:30-23:30 Conference dinner**

Friday, 29^h of June, 2018

- 09:00-09:40 **KN3** “Nitrogen-doped carbon nanofibres: What are the requirements for application in PEM fuel cells?”
Magnus Rønning (*Norwegian University of Science and Technology, Norway*)
- 09:40-10:00 **OC28** “Sulfonated hydrothermal carbons as catalysts for organic reactions”
José Fraile (*ISQCH, Spain*)
- 10:00-10:20 **OC29** “Carbon materials in cyclohexane catalytic oxidation”
Marta Andrade (*CQE/IST, Portugal*)
- 10:20-10:40 **OC30** “Effect of carbon support on selective hydrogenation by concave platinum nanocubes”
Katerina Soulantica (*LPCNO, France*)
- 10:40-11:10 Coffee break**
- 11:10-11:30 **OC31** “Surface-modified nanocarbons as metal-free catalysts for catalytic oxidation”
Shaobin Wang (*Curtin University, Australia*)
- 11:30-11:50 **OC32** “Modified carbide-derived carbons used in the catalytic wet peroxide oxidation of oily wastewaters”
Jose Díaz de Tuesta (*Instituto Politécnico de Bragança, Portugal*)
- 11:50-12:10 **OC33** “Highly nitrogen-selective Pt-In/C catalysts in the reduction of nitrites in water”
Enrique V. Ramos Fernandez (*Universidad de Alicante, Spain*)
- 12:10-12:50 **KN4** “Catalytic layers of Proton Exchange Membrane fuel cells based on carbon xerogel supports”
Nathalie Job (*University of Liège, Belgium*)
- 12:50-13:10 Closing session**
- 13:10-14:00 Executive lunch**