GCR 2017

Global Conference on

Catalysis and Reaction Engineering

Accentuate Innovations and Emerging Novel Research in Catalysis

Conference Program

venue:
Hampton Inn Tropicana and Event Center
4975 Dean Martin Drive |
Las Vegas, NV 89118

October 19 - 21, 2017 | Las Vegas, USA

Program

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Day 1 October 19, 2017 (Thursday) @ Hampton Event Center A

08:00-08:40	Registrations
	Moderator: Marc-Andreas Christlieb, Hamburg University of Technology, Germany
08:40-09:00	Introduction to GCR 2017

Keynote Presentations

09:00-09:40	**Title: Advances in the direct synthesis of hydrogen peroxide from hydrogen and oxygen** Jennifer Edwards, Cardiff Catalysis Institute, UK
09:40-10:20	**Title: Decoration of acyclic amines via metal catalyzed C-H activation reactions** Michael Schnürch, TU Wien, Austria
10:20-11:00	**Title: Isotope tracer studies on the mechanism of fischer-tropsch synthesis: Its impacts on selective catalysts developments, geoscience, planetary studies and the origin of hydrocarbons on the earth** Buchang Shi, Eastern Kentucky University, USA
11:00-11:20	Coffee Break @ Foyer Event Center
11:20-12:00	**Title: Photodynamic therapy (PDT) of tumors: An overview of long-term team(s) four decades experience** Mohamed El-Far, Mansoura University, Egypt
	Sessions on: Environmental Catalysis and Nano Catalysis | Molecular and Heterogeneous Catalysis | Modelling in Catalytic Processes
	Session Chairs: **Jennifer Edwards, Cardiff Catalysis Institute, UK** **Stanislaw Dzwigaj, Sorbonne Universités, France**
12:00-12:20	**Title: Assessment of the production of hydroxyl radical using nano zero-valent iron embedded in a meso-porous silica matrix** Erick R. Bandala, Desert Research Institute, USA
12:20-12:40	**Title: Catalysis effects over atmospheric particles composed by H_2O, HCl, HNO_3 and H_2SO_4: Quantum analysis** María de los Ángeles Verdes Gago, Universidad Autónoma de Madrid, Spain
12:40-13:00	**Title: Computational design of novel catalyst system** Tadashi Ogitsu, Lawrence Livermore National Laboratory, USA
13:00-13:20	**Title: CO_2 activation and reduction catalyzed by FeS nanocatalyst: A DFT study** Nelson Y. Dzade, Utrecht University, Netherlands
13:20-13:40	**Title: Super-capacitor characteristics based on several composite materials** Hee-Je Kim, Pusan National University, Republic of Korea
	Group Photo
13:40-14:30	Lunch Break @ Foyer Event Center
14:30-14:50	**Title: Pt and Pd clusters confined in the bulk of fiberglass as an effective heterogeneous catalysts** Bair S. Bal'zhinimaev, Boreskov Institute of Catalysis, Russia
14:50-15:10	**Title: Tuning the surface adsorption properties of polymer sorbents via facile methods** Lee D. Wilson, University of Saskatchewan, Canada

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15:10-15:30	**Title: Metal supported on titania for nitrate reduction** Peter J. Miedziak, Cardiff University, UK
15:30-15:50	**Title: Fischer-Tropsch synthesis catalyzed by small TiO2 supported cobalt nanoparticles prepared by sodium borohydride reduction** Jorge A. Delgado Delgado, Centre Tecnològic de la Química, Spain
15:50-16:10	**Title: Inline concentration profiles in enzyme catalyzed reactive rectification using infrared spectroscopy** Marc-Andreas Christlieb, Hamburg University of Technology, Germany
16:10-16:30	**Title: Thermal stability study of catalysts in esterification reaction processes** Edidiong Okon, The Robert Gordon University, UK
16:10-16:30	**Coffee Break @ Foyer Event Center**
16:30-16:50	**Title: Computational study of the Fischer-Tropsch process catalyzed on small Ru clusters: Beta-elimination versus reductive elimination** Edward Brothers, Texas A&M University, Qatar
16:50-17:10	**Title: Cobalt(III)-supported chemically modified mesoporous silica as heterogeneous oxidation catalyst** Purabi Sarmah, Nalbari College, India
17:10-17:30	**Title: Design of heterostructure photoelectrodes for solar fuels** Yan-Gu Lin, National Synchrotron Radiation Research Center, Taiwan
17:30-17:50	**Title: Photocatalytic hydrogen evolution from water splitting over mixed valence tin oxide semiconductor under visible light irradiation** Toyokazu Tanabe, Kanagawa University, Japan
17:50-18:10	**Title: Active carbons as nanoporous materials for solving of environmental problems** Victor Mukhin, Neorganika, Elektrostal, Russia
	Panel Discussion

Day 2 October 20, 2017 (Friday) @ Hampton Event Center A

Moderator: Jiri Tuma, University of Chemistry and Technology Prague, Czech Republic

Keynote Presentations

09:00-09:40	**Title: Design and applications of single-site zeolite catalysts** Stanislaw Dzwigaj, Sorbonne Universités, France
09:40-10:20	**Title: Photocatalysis for degradation of environmental pollutants under VUV irradiation** Dennis Y.C. Leung, The University of Hong Kong, Hong Kong
10:20-11:00	**Title: Mesoporous silica is a mysterious material: From viewpoints of its catalysis for direct amidation reaction of carboxylic acids and amines** Kenichi Komura, Gifu University, Japan
11:00-11:20	**Coffee Break @ Foyer Event Center**
	Sessions on: Kinetics and Catalysis | Advances in Catalysis | Chemical Reaction Engineering | Applied Catalysis
	Session Chairs: **Buchang Shi, Eastern Kentucky University, USA** **Dibakar Chandra Deka, Gauhati University, India**

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11:20-11:40	**Title: GaN a novel catalyst material for the direct non-oxidative methane aromatization** Jan Kopyscinski, McGill University, Canada
11:40-12:00	**Title: Sub-micromolar reaction screening in flow** Neal Sach, Pfizer Inc, USA
12:00-12:20	**Title: Development of a new approach to study of catalytic reaction mechanisms** Irina Khalfina, Novosibirsk State University, Russia
12:20-12:40	**Title: Microkinetic rate theory: Generalization, application to catalysis, prospects as basis for continuum rate theory** Michael Frederick Francis, Los Alamos National Laboratories, USA
12:40-13:00	**Title: Transesterification of non-edible vegetable oils to biodiesel using a heterogeneous catalyst derived from banana plant** Md. Abdul Halim Shah, Dhanamanjuri University, India
13:00-13:20	**Title: Solar water splitting by doping-treated $BiVO_4$** Won Jun Jo, Lawrence Berkeley National Lab, USA
13:20-14:10	**Lunch Break @ Foyer Event Center**
14:10-14:30	**Title: Oxidation of sulfur dioxide to sulfur trioxide over V_2O_5/TiO_2 catalyst and sulfur balance** Tingyu Zhu, Institute of Process Engineering, Chinese Academy of Sciences, China
14:30-14:50	**Title: High performance catalysts for hydrogen & oxygen evolution reactions and water electrolysis** Zhifeng Ren, University of Houston, USA
14:50-15:10	**Title: Photo-oxidation reaction scheme triggered by the nozzle of submerged plasma torch** Florent Lemont, Atomic Energy Commission, Marcoule, Bagnols-sur Cèze Cedex, France
15:10-15:30	**Title: OsO_4 catalysed oxidation of atropine sulphate monohydrate with chloramine-T in alkaline medium: Delineation of mechanistic pathways and kinetic modelling** Nirmala Vaz, Jyoti Nivas College Autonomous, India
15:30-15:50	**Title: Novel nickel-palladium catalyst for hydrogenation aromatic compound** Su Ying-Chou, National Cheng Kung University, Taiwan
15:50-16:10	**Title: Silica-immobilized bifunctional L-prolinol organocatalysts: Stereoselective michael addition in heterogeneous environment** Jiri Tuma, University of Chemistry and Technology Prague, Czech Republic
16:10-16:30	**Title: Nanocrystalline synthetic ferrihydrite as a catalyst for Fischer-Tropsch synthesis** Dong Hyun Chun, Korea Institute of Energy Research, Republic of Korea
16:30-16:50	**Coffee Break @ Foyer Event Center**
16:50-17:10	**Title: A novel heterogeneous catalyst from red cotton flowers and its applications** Hitesh Barman, Rangia College, India
17:10-17:30	**Title: Study of the use of ceramic membranes coated with Copper and Zirconium oxides in the oxidation of Carbon monoxide** María Dolores Sosa Lucio, Escuela Politécnica Nacional, Ecuador
17:30-17:50	**Title: Innovative hydrocarbons recovery and utilization technology using reactor-separation membranes for off-gases emission** Habiba Shehu, Robert Gordon University, UK
17:50-18:10	**Title: Observation of dynamic Cu redox behavior in MFI-zeolite during NH_3-SCR using in-situ XAFS** Kakuya Ueda, Nagoya University, Japan
	Panel Discussion

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Poster Presentations 17:30 - 18:30

P1	**Title: Supported silver nanoparticles for catalytic reduction processes** Lee D. Wilson, University of Saskatchewan, Canada
P2	**Title: Selective conversion of methanol to para-xylene over Zn doped core-shell zeolite catalyst** Koji Miyake, Osaka University, Japan
P3	**Title: Reusable Cu catalysts dispersed on two types of supports and its application in the [3+2] cycloaddition in water: Revere phase silica gel and thermoresponsive poly(NIPAM-co-4-VP)** Minkyung Lim, Hanyang University, Republic of Korea
P4	**Title: Trinuclear microporous coordination polymers as catalysts for oxidation of arylboronic acids into phenols** Sanchay Jyoti Bora, Pandu College, India
P5	**Title: Development of new Pd(0) catalysts immobilized on silica-gel : Study of reactivity according to stationary phases for Suzuki-Miyaura coupling reaction in water** Jaeyoung Ban, Hanyang University, Republic of Korea
P6	**Title: Preparation and reduction behavior of carbon composite iron oxide pellets using woody biomass** Hirokazu Konishi, Osaka University, Japan
P7	**Title: Copper(I)-catalyzed synthesis of 1,2,3-Triazoles from azidoformates, electron-deficient azides** Jaeyoung Ban, Hanyang University, Republic of Korea
P8	**Title: Plasma assisted catalysis system for diesel PM combustion** Yoshiyasu Ehara, Tokyo City University, Japan
P9	**Title: Dopamine-mediated graphene/Ag NP hybrids for enhanced electrochemical activity** Wonoh Lee, Chonnam National University, Republic of Korea
P10	**Title: Design of a highly efficient natural gas fuel processor for residential PEM fuel cells** Wang Lai Yoon, Korea Institute of Energy Research, Republic of Korea
P11	**Title: Quantification of ligand packing density on Cu nanoparticles and determination of nanoparticles surface area and sizes through quantitative ligand adsorption-chemisorption** Matumuene Joe Ndolomingo, University of Johannesburg, South Africa
P12	**Title: Effect of transition metal promoter on cobalt based syngas to olefin synthesis** Jayen Barochia, SABIC Research and Technology Centre, Saudi Arabia

Day 3 October 21, 2017 (Saturday) @ Hampton Event Center A

Moderator: Jiri Tuma, University of Chemistry and Technology Prague, Czech Republic

Keynote Presentations

09:00-09:40	**Title: Base modified Bi_2WO_6: A facile route to improved photocatalytic activity under visible light** Dionysios (Dion) Demetriou Dionysiou, University of Cincinnati, USA
09:40-10:20	**Title: Heterogeneous catalysts from waste biomass and their applications** Dibakar Chandra Deka, Gauhati University, India

Sessions on: Catalytic systems and New catalysts | Photochemistry, photobiology and Electrochemistry | Advanced Synthesis and Catalysis

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	Session Chair: **Dionysios (Dion) Demetriou Dionysiou, University of Cincinnati, USA** **Allen Apblett, Oklahoma State University, USA**
10:20-10:40	**Title: Single source precursor approach for the synthesis of bimetallic molybdate catalysts** Allen Apblett, Oklahoma State University, USA
10:40-11:00	**Coffee Break @ Foyer Event Center**
11:00-11:20	**Title: Synthesis of new water-soluble platinum(II) complexes by Phase Transfer Catalysis** Ja'afar Kadhum Jawad, International University of Erbil, Iraq
11:20-11:40	**Title: Flexible CNT/metal-sulfide composite electrode for energy conversion and energy storage applications** Chandu Venkata Veera Muralee Gopi, Pusan National University, Republic of Korea
11:40-12:00	**Title: Pycnoporus laccase production, properties and its novel application** Jiayang Liu, Huanghuai University, China
12:00-12:20	**Title: CO_2 conversion from flue gas using a catalytic hybrid inorganic membranes** Edidiong Okon, The Robert Gordon University, UK
12:20-12:40	**Title: Nanostructured metallic glasses and their powders as catalytic, chemical and biological materials** Dmitri V. Louzguine, Tohoku University, Japan
12:40-13:00	**Title: Edible Lentinula edodes carbon with $NiCo_2O_4$ based hybrid super capacitive material for high capacitance** Vivekanandan Raman, Pusan National University, Republic of Korea
13:00-13:20	**Title: Visible-light-induced degradation of polybrominated diphenyl ethers** Chunyan Sun, Shaoxing University, China
13:20-14:20	**Lunch Break @ Foyer Event Center**
	End Note

We wish to meet you again at

GCR-2018

September 20-22, 2018 | Rome, Italy

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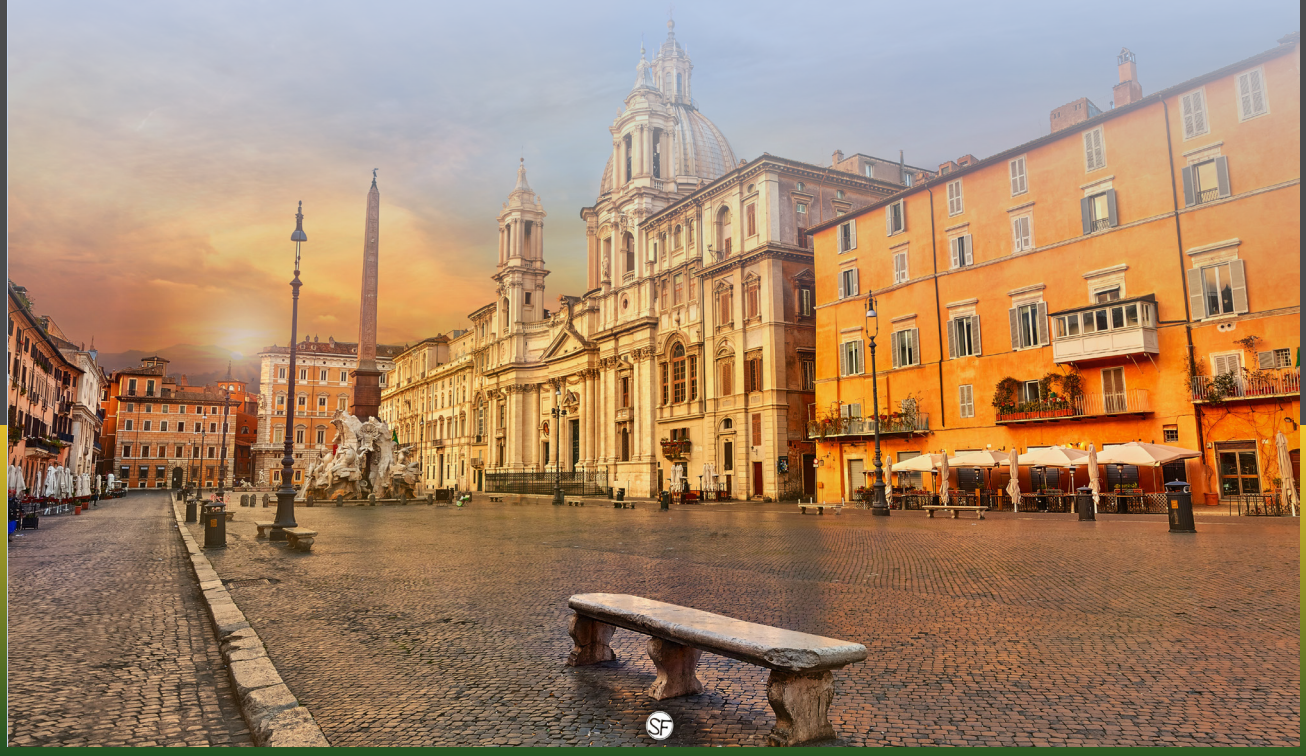

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