

GCR 2017

Global Conference on
Catalysis and Reaction Engineering

*Accentuate Innovations and Emerging Novel Research
in Catalysis*

Tentative Program

October 19-21, 2017 | Las Vegas, USA

Day 1 October 19, 2017 (Thursday)

Keynote Presentations

Title : Advances in the direct synthesis of hydrogen peroxide using Au catalysts

Jennifer Edwards, Cardiff University, UK

Title: Decoration of acyclic amines via metal catalyzed C-H activation reactions

Michael Schnurch, TU Wien, Austria

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

Title: Photodynamic Therapy (PDT) of Tumors: An Overview of Long-Term Team(s) Four Decades Experience

Mohamed El-Far, Mansoura University, Egypt

Oral Presentations

Title: Subnanometer to Nanometer Size-Selected Clusters: Size Effects in Catalysis, Electrocatalysis and Batteries

Stefan Vajda, Argonne National Laboratory, USA

Title: Genomic Bioprospecting of Cellulolytic Thermophiles Isolated from Yellowstone National Park

Joshua Ohair, Tennessee State University, USA

Title: Development of a New Approach to Study of Catalytic Reaction Mechanisms

Irina Khalfina, Novosibirsk State University, Russia

Title: Catalysis effects over atmospheric particles composed by H₂O, HCl, HNO₃ and H₂SO₄: Quantum analysis

Maria de los Angeles Verdes Gago, Autonomous University of Madrid, Spain

Title: Tuning the Surface Adsorption Properties of Polymer Sorbents via Facile Methods

Lee D. Wilson, University of Saskatchewan, Canada

Title: Single Source Precursor Approach for the Synthesis of Bimetallic Molybdate Catalysts

Allen Apblett, Oklahoma State University, United States

Title: Catalytic progress in the polymerization process of environmental-friendly polymer (PLA): Reaction mechanism modelling approach

Satya P. Dubey, Cranfield University, UK

Title: Multifunctional Catalytic Reactors for Clean Energy Production

Francisco R. Garcia-Garcia, University of Edinburgh, UK

Title: Visible light driven photoelectrochemical reduction of carbon dioxide to fuel at graphene modified CuFe₂O₄

Md. Maksudur Rahman Khan, Universiti Malaysia Pahang, Malaysia

Title: The use of industrial wastes as catalysts of oxidative processes

L. A. Voropanova, North-Caucasian Mining-Metallurgical Institute, Russia

Title: Gold Photoredox catalysis in Organic Synthesis

Jin Xie, Heidelberg University, Germany

Title: Pt and Pd Clusters Confined in the Bulk of Fiberglass as an Effective Heterogeneous Catalysts

Bair S. Bal'zhinimaev, Borekov Institute of Catalysis, Russia

Title: Oxidation of sulfur dioxide to sulfur trioxide over V₂O₅/TiO₂ catalyst and sulfur balance

Tingyu Zhu, Chinese Academy of Sciences, China

Title: CO₂ Conversion from flue gas using a Catalytic Hybrid Inorganic Membranes

Edidiong Okon, The Robert Gordon University Aberdeen, United Kingdom

Title: Photo-oxidation reaction scheme triggered by the nozzle of submerged plasma torch
Florent Lemont, Atomic Energy Commission, Marcoule, Bagnols-sur Cèze Cedex, France

Title: Active carbons as nanoporous materials for solving of environmental problems
Victor Mukhin, Neorganika, Elektrostal, Russia

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

Title: Sub-micromolar reaction screening in flow
Neal Sach, Pfizer Inc, USA

Title: Hydrodeoxygenation of furylmethane oxygenates to jet and diesel ranged fuels: Probing the reaction network with supported palladium catalyst and hafnium triflate promoter
Saikat Dutta, University of Delaware, United States

Title: New model for the description of sorptive and textural properties of CaO-based sorbents changing during repetitive sorption/regeneration cycles
Vladimir S. Derevschikov, Novosibirsk State University, Russia

Title: Calcined tertiary hydroxaltes as supports of como based catalysts for the hydrodesulfurization reaction of dibenzothiophene
Edwin Oviedo, University of Carabobo, Venezuela

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

Title: CO₂ activation and reduction catalyzed by FeS nanocatalyst: A DFT study
Nelson Y. Dzade, Utrecht University, Netherlands

Title: Microwave-Assisted Synthesis of a MK2 Inhibitor by Suzuki-Miyaura Coupling for Study in Werner Syndrome Cells using using a palladium catalyst
Mohammed A Baashen, Shaqra University, Saudi Arabia

Title: Computational design of novel catalyst system
Tadashi Ogitsu, Lawrence Livermore National Laboratory, USA

Title: Microkinetic rate theory: Generalization, application to catalysis, prospects as basis for continuum rate theory
Michael Frederick Francis, Los Alamos National Laboratories, USA

Title: Metal supported on titania for nitrate reduction
Peter J. Miedziak, Cardiff University, UK

Title: Morphological, electrical and sensing characterization of Eu-doped ZnO films
Neha Verma, Kanya Maha Vidyalaya, India

Title: Solar water xsplitting by doping-treated BiVO₄
Won Jun Jo, Lawrence Berkeley National Lab, USA

Speaker Slots Available

Day 2 October 20, 2017 (Friday)

Keynote Presentations

Title: Design and Applications of Single-Site Zeolite Catalysts
Stanislaw Dzwigaj, Sorbonne University, France

Title: Base modified Bi₂WO₆: A facile route to improved photocatalytic activity under visible light
Dionysios Demetriou Dionysiou, University of Cincinnati, USA

Title: Photocatalysis for degradation of environmental pollutants under VUV irradiation
Dennis Y.C. Leung, University of Hong Kong, Hong Kong

Oral Presentations

Title: Cobalt-based nanocatalysts for effective conversion of syngas to hydrocarbons in a silicon microreactor

Debashish Kuila, North Carolina A&T State University, USA

Title: Flexible supercapacitor characteristics from several composite materials

Hee-Je Kim, Pusan National University, South Korea

Title: GaN a novel catalyst material for the direct non-oxidative methane aromatization

Jan Kopyscinski, McGill University, Canada

Title: Synthesis of new water-soluble platinum(II) complexes by Phase Transfer Catalysis

Jaafar Kadhum Jawad, International University of Erbil, Erbil - Kurdistan - Iraq

Title: Inline concentration profiles in enzyme catalyzed reactive rectification using infrared spectroscopy

Marc-Andreas Christlieb, Hamburg University of Technology, Germany

Title: Pycnopus laccase production, properties, and its novel application

Jiayang Liu, Huanghuai University, China

Title: Photocatalytic hydrogen evolution from water splitting over mixed valence tin oxide semiconductor under visible light irradiation

Toyokazu Tanabe, Kanagawa University, Japan

Title: Polymerization of aniline derivatives catalysed by copper (II) species in the presence of air oxygen

Tugrul Cem Bicak, University of Strathclyde, Scotland

Title: The application of semiconductors to unbiasedly charge liquid-state batteries

Kristina Wedege, Aarhus University, Denmark

Title: Nanocrystalline Synthetic Ferrihydrite as a Catalyst for Fischer-Tropsch Synthesis

Dong Hyun Chun, Korea Institute of Energy Research, Republic of Korea

Title: Yet to be decided

Zhenyu Zhang, University of Science and Technology, China

Title: Reaction of C₂H₄ under Lower Temperature Fischer-Tropsch Conditions on a TiO₂ Supported Cobalt Catalyst with Co-feeding of H₂ and Syngas

Xiaojun Lu, University of South Africa, South Africa

Title: Environmental catalysis: remove nitrogenous compounds from waste water

Binghui Chen, Xiamen University, China

Title: Kinetic and Equilibrium Studies on Adsorption of Methylene Blue in Aqueous Solution onto Activated Carbon by H₃PO₄ Activation from the Hulls of *Vitex doniana*

Massai Harouna, University of maroua, Africa

Title: A continuous catalytic and environmentally benign alkene epoxidation method

Misbahu Ladan Mohammed, Usmanu Danfodiyo University, Nigeria

Title: Engineering High-Performance Nanocatalysts via Heterogeneous Gas-Phase Synthesis

Mukhles Sowwan, Okinawa Institute of Science and Technology, Japan

Title: Flexible CNT/metal-sulfide composite electrode for energy conversion and energy storage applications

Chandu Venkata Veera Muralee Gopi, Pusan National University, South Korea

Title: OsO₄ 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

Title: Comparative assessment of amine modified cow bone and coconut shell activated carbon for carbon dioxide adsorption

Mohammed Umar Garba, Federal University of Technology, Nigeria

Title: Regioselective synthesis of spiroheteroindolines

Safar Poghosyan, National Academy of Sciences of the Republic of Armenia, Armenia

Title: Tenable low cost metals nanoparticles for favorable oxidation of benzyl alcohol

Mohammad Sadiq, University of Malakand, Pakistan

Title: Controllable oxidation of cyclohexane to KA oil using manganese ferrite nanoparticles

Saima Sadiq, Kyungpook National University, South Korea

Title: Biodiesel production from edible oil wastewater sludge with bioethanol using nano-magnetic catalysis

Wighens Ngoie Ilunga, Cape Peninsula University of Technology, South Africa

Title: Effects of micellar solution on the electrocatalytic activity of cyanocobalamin towards the reduction of organochlorine pesticide 2,2,2-Trichloro-1,1-Bis(4-Chlorophenyl)Ethanol (Dicofol) on a pyrolytic graphite electrode

Tabitha Wangui Wanjau, Kisii University, Kenya

Title: Evaluation of photocatalytic activity of magnetic zeolite/bismuth-manganese oxide composite in the degradation of distillery wastewater under UV-A irradiation

Jacob Ochieng Kitinya, Tshwane University of Technology, South Africa

Title: Matrix supported nanocatalysts and their applications in redox reactions

Sankararao Chappa, Bhabha Atomic Research Centre, India

Title: Catalytic degradation of municipal waste expanded polystyrene using Cu, CuO and CuCl catalysts

Adnan Rauf, University of Swat, Pakistan

Title: Silica-immobilized bifunctional L-prolinol organocatalysts: Stereoselective michael addition in heterogeneous environment

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

Title: Matrix supported nanocatalysts and their applications in redox reactions

Sankararao Chappa, Bhabha Atomic Research Centre, India

Title: Catalytic degradation of municipal waste expanded polystyrene using Cu, CuO and CuCl catalysts

Adnan Rauf, University of Swat, Pakistan

Title: Visible-light-induced degradation of polybrominated diphenyl ethers

Chunyan Sun, Shaoxing University, China

Title: Design of heterostructure photoelectrodes for solar fuels

Yan-Gu Lin, National Synchrotron Radiation Research Center, Taiwan

Title: Cobalt(III)-supported chemically modified mesoporous silica as heterogeneous oxidation catalyst

Purabi Sarmah, Nalbari College, India

Poster Presentations

Title: Supported silver nanoparticles for catalytic reduction processes

Lee D. Wilson, University of Saskatchewan, Canada

Title: Selective conversion of methanol to para-xylene over Zn doped core-shell zeolite catalyst

Koji Miyake, Osaka University, Japan

Title: Design of a highly efficient natural gas fuel processor for residential PEM fuel cells

Wang Lai Yoon, Korea Institute of Energy Research, Rep. of Korea

Title: Reusable Cu catalysts dispersed on two types of supports and its application in the [3+2] cycloaddition in water : Reverse phase silica gel and thermoresponsive poly(NIPAM-co-4-VP)

Minkyung Lim, Hanyang university, The republic of Korea

Title: Synthesis and Characterization of Mo Oxides thin film on Alumina Single Crystal (α -0001)

Ibrahim Garba Wawata, Kebbi State University of Science and Technology, Nigeria

Title: Trinuclear Microporous Coordination Polymers as Catalysts for Oxidation of Arylboronic Acids into Phenols

Sanchay Jyoti Bora, Pandu College, India

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

Title: Selective ethylene tetramerization with metal-organic framework MIL-100(Fe)

Yang Han, China University of Petroleum, China

Title: Effect of transition metal promoter on cobalt based syngas to olefin synthesis

Jayen Barochia, SABIC Research and Technology Centre, Saudi Arabia

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

Title: Preparation and reduction behavior of carbon composite iron oxide pellets using woody biomass

Hirokazu Konishi, Osaka University, Japan

Title: Copper(I)-catalyzed synthesis of 1,2,3-Triazoles from azidoformates, electron-deficient azides

Heejin Lee, Hanyang university, Republic of Korea

Title: Plasma assisted catalysis system for diesel PM combustion

Yoshiyasu Ehara, Tokyo City University, Japan

Title: Composition dependent reactivity of titanium oxide clusters

Yao Guo, City University of Hong Kong, Hong Kong

Title: Hydrogen free catalytic wood biomass fractionation under continuous flow conditions

Elena Subbotina, Stockholm University, Sweden

Title: Palladium(II) complexes of (benzoimidazol-2-ylmethyl)amine ligands as catalysts for the methoxycarbonylation of olefins

Thandeka Adelinah Tshabalala, University of KwaZulu-Natal, South Africa

Title: Scale up synthesis of mono disperse and stable nickel ferrite NiFe₂O₄ nanoparticles by microwave combustion method: Catalytic efficiency

Muhammad Imran Din, University of Punjab, Pakistan

Title: Synthesis and characterization of the NiFe₂O₄@TEOS-TPS@Ag nanocomposite and investigation of its antibacterial activity

Shirin Shahabadi, Isfahan University of Technology, Iran

Title: Dopamine-mediated graphene/Ag NP hybrids for enhanced electrochemical activity

Wonoh Lee, Chonnam National University, Republic of Korea

Title: Bio-reduction of copper salts for synthesis of stable CuO nanoparticles and their catalytic degradation performance

Muhammad Makshoof Athar, University of the Punjab, Pakistan

Title: Base catalized intramolecular cyclization of unsaturated ammonium salts and recyclization of derivatives of 4-hydroxymethylisoindolinium chlorides

Chukhajian E.O, National Academy of Sciences of Republic of Armenia, Armenia

Title: The development of catalyst based on mineral part of shale for fisher-tropsch synthesis

Ermagambet Bolat, Institute of Coal Chemistry and Technology, Kazakhstan

Speaker Slots Available

Day 3 October 21, 2017 (Saturday)

Keynote Presentations

Title : Heterogeneous catalysts from waste biomass and their applications

Dibakar Chandra Deka, Gauhati University, India

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

Oral Presentations

Title: The role of catalyst to enhance the reduction of Environmental pollution by modern technology

Sudhanshu Dhar Dwivedi, Govt Benazir Science and Commerce College, India

Title: Pt-alloy nanocatalyst supported on nano-carbon as a novel cathode electrocatalyst for low temperature fuel cell

Sundara Ramaprabhu, Indian Institute of Technology, India

Title: Edible lentinula edodes carbon with NiCo₂O₄ based hybrid super capacitive material for high capacitance

Vivekanandan Raman, Pusan National University, South Korea

Title: Photoactive Anisotropic Plasmonic Metal-Semiconductor Nanohybrids For Improved Solar-Fuel Conversion Systems

Firdoz Shaik, Technion-Israel Institute of Technology-Haifa, Israel

Title: Sustainable Synthesis of 2-Arylbenzoxazoles over a Cobalt-based Nanocomposite Catalyst

Jian He, Shanghai Jiao Tong University, China

Title: Catalytic Valorization of Carbohydrates Using Sulfate Ion Promoted Zirconia Catalyst

Samuel Kassaye Degife, Indian Institute of Technology, India.

Title: Inhibitive Tendency of Zinc Gluconate for Engineering Materials In Corrosive Environments

Omotayo Sanni, Tshwane University of Technology, South Africa

Title: Transesterification of non-edible vegetable oils to biodiesel using a heterogeneous catalyst derived from banana plant

Md. Abdul Halim Shah, D.M. College of Science, Dhanamanjuri University, India

Title: Study on the Treatment of Effluents from Paint Industry by Modified Electro-Fenton Process

Ahmed Mostafa Sadek, The Egyptian Ethylene and Derivatives Company (ETHYDCO)-Alexandria, Egypt

Title: A novel heterogeneous catalyst from red cotton flowers and its applications

Hitesh Barman, Rangia College, India

Title: Deactivation kinetics of Pt-Sn/Al₂O₃ catalyst in the dehydrogenation of light alkanes

Saeed Sahebdehfar, Petrochemical Research and Technology Company, Iran

Title: Tridentate 4-acylpyrazolone thiosemicarbazone and its platinum complex with catalytic properties

Omoruyi G. Idemudia, University of Fort Hare, South Africa

Title: Novel nickel-palladium catalyst for hydrogenation aromatic compound

Su Ying-Chou, National Cheng Kung University, Taiwan

Title: Advances in photocatalysis: The Ethiopian experience

Abi M. Tadesse, Haramaya University, Ethiopia

Title: Reaction pathways of methanol oxidation over a supported bimetallic catalyst

Luter Leke, Benue State University, Nigeria

Title: Oxidation reactions of hydrogen peroxide catalysed with schiff base-complex substituted tri-nuclear phthalocyanine complexes on oxidative bleaching by online spectrophotometric method

Pinar Sen, Sakarya University, Turkey

Title: Nanostructured metallic glasses and their powders as catalytic, chemical and biological materials

Dmitri V. Louzguine, Tohoku University, Japan

Title: Impact of platinum group metal ions as catalysts on the oxidative decolorization of azo dyes: Catalytic, kinetic and mechanistic chemistry

Puttaswamy, Bangalore University, India

Title: Thermodynamic, Kinetics, Mechanical, Electrical and Surface Study of Corrosion Inhibitor

Vishal Saini, JGPG College, India

Title: Tailored synthesis of noble metal nanoparticles and mesoporous alumina by microwave assisted technique and its catalytic application for renewable analogues to platform chemicals

Yogeshwar Rajendra Suryawanshi, S.V. National Institute of Technology, India

Title: Electrocatalytic decomposition of (3ar,7as)-2-[(Trichloromethyl)Sulfanyl]-3a,4,7,7a-Tetrahydro-1h-Isoindole-1,3(2h)-Dione (Captan) pesticide residue using cyanocobalamin on glassy carbon electrode

Catherine Njambi Muya, Technical University of Kenya, Kenya

Title: Anthranilic acid, Chemical reagent or organocatalyst: a new and efficient method for the synthesis of quinazoline derivatives

Hamidreza Safaei, Islamic Azad University, Iran

Title: Photocatalytic properties of different Titanium Dioxide nanocomposites

Sanaz Raeis Farshid, Islamic Azad University, Iran

Title: Phytochemical analysis and antioxidant properties of the various extracts of Catharanthus roseus

M. Amin Mir, Uttaranchal College of Science and Technology, India

Title: Hydrogen fuel produced by reactions over nanoporous heterogeneous catalysts

Khalid Farhod Chasib, University of Thi Qar, Iraq

Speaker Slots Available

Questions? Contact +1 (702) 988-2320 or Inquires: catalysis@magnusconferences.com

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