magnus Group

5th EDITION OF GLOBAL CONFERENCE ON

CATALYSIS, CHEMICAL ENGINEERING & TECHNOLOGY

SEPTEMBER 16-18, 2019 LONDON, UK

Theme:
Novel Explorative Approaches trending in Catalysis, Chemical Engineering and Technology

Park Inn by Radisson Hotel & Conference Centre
Bath Road, Heathrow, Middlesex
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CONFERENCE PROGRAM

Day 1 : September 16, 2019 (Monday) @ Atlantis1

08:00-08:40	Welcome Coffee and Registrations
Moderator	Edward N. Brothers, Texas A&M University at Qatar, Qatar
08:40-09:00	Introduction

Keynote Presentations

09:00-09:40	Tilte: Design of metal single-site zeolite catalysts for application in industrial and environmental catalysis Stanislaw Dzwigaj, Sorbonne Université-CNRS, France
09:40-10:20	Title: In-Situ TEM studies of chemically-complex alloy catalysts Reza Shahbazian-Yassar, University of Illinois, USA
10:20-11:00	Title: From sequential chemo-enzymatic approach to integrated hybrid catalysis: Concept and examples Froidevaux Rénato, Institut Charles Viollette – University of Lille, France

Group Photo

11:00-11:20	**Coffee break**	**@ Foyer**
11:20-12:00	Title: Catalysis in segmented flow from lab scale to production Claude De Bellefon, University of Lyon, France	

Oral Presentations

Sessions on:	Catalysis for Energy | Nano materials | Catalysis for Renewable Sources | Microbial Technology | Advances in Catalysis
Session Chairs:	Stanislaw Dzwigaj, Sorbonne Université-CNRS, France Reza Shahbazian-Yassar, University of Illinois, Chicago
12:00-12:20	Title: Hydrogen from clean biogas. A proof of concept of integrated process Angelo Vaccari, Alma Mater Studiorum- Università di Bologna, Italy
12:20-12:40	Title: Room temperature reduction of carbon dioxide using localized surface plasmon energy Renu Sharma, National Institute of Standards and Technology (NIST), USA
12:40-13:00	Title: Catalytic hydrogen release from Amine-Boranes Ashfaq Bengali, Texas A&M University at Qatar, Qatar
13:00-14:00	**Lunch Break** **@ RBG Restaurant**

14:00-14:20	Title: Production of hydrogen by catalytic partial dehydrogenation of a commercial fuel for HT-PEM fuel cell applications Garcia Garrido Rafael, Université de Montpellier, France
14:20-14:40	Title: Catalyst and support materials in energy storage systems Annukka Santasalo-Aarnio, Aalto University, Finland
14:40-15:00	Title: Catalytic CO_2 valorisation to building block molecules Soyeb Pathan, Hamad Bin Khalifa University (HBKU), Qatar
15:00-15:20	Title: Designing photocatalyst nanostructure for enhanced photon-to-conversion efficiency and hydrogen production Mohamed Nawfal Ghazzal, Université Paris-Sud, France
15:20-15:40	Title: Chemistry of graphene: Adsorption of CO at pristine, doped and defected supported graphene Luca Vattuone, Università degli Studi di Genova, Italy
15:40-16:00	Title: Diesel fuel adulteration issues in Nigeria Oyinkepreye Lucky Bebeteidoh, Newcastle University, United Kingdom
16:00-16:20	**Coffee Break** **@ Foyer**
16:20-16:40	Title: Effect of the electronic State of Cu, Ag, and Au on diesel soot abatement Maria Griselda Corro Hernandez, Benemerita Universidad Autonoma de Puebla, Mexico
16:40-17:00	Title: Auto-thermal reforming of biogas to syngas: Thermodynamic optimization for low CO_2 emissions Xuejing Chen, Tsinghua University, China
17:00-17:20	Title: Rapid, ionic-liquid mediated catalytic conversion of lignocellulosic Sunn hemp fibres to biofuel precursors Saikat Chakraborty, Indian Institute of Technology Kharagpur, India
17:20-17:40	Title: Study on biogas dry reforming using Ni catalysts and impurity effects Yuchen Gao, Tsinghua University, China
17:40-18:00	Title: Improving probiotic stability to achieve product maximum efficacy Davor J. Korčok, Abela Pharm, Serbia
18:00-18:20	Title: Design & Synthesis of cost effective NiPMoS/Laponite and its use as a superior catalyst for hydrodeoxygenation of furfural Kannan Shanthi, Anna University, India
18:20-18:40	Title: Preparation and coke-resistance study of Ru promoted Mesoporous Ni/Al_2O_3–CeO_2 catalyst in dry reforming of methane Yuqi Wang, Northwest University, China

18:40-19:00	Title: Anode electrode catalyst for liquid fueled solid alkaline fuel cells (SAFCs) Gopinathan nair M Anilkumar, R&D Center, Japan

Day 1 : September 16, 2019 (Breakout) @ Atlantis2

Sessions on:	Chemical Engineering and Advances | Electrochemistry, Photoelectrochemistry and Photocatalysis | Biocatalysis and Biotransformations | Homogeneous catalysis | Petrochemical Engineering
Session Chairs:	Claude De Bellefon, University of Lyon, France John Zhonghua Zhu, The University of Queensland, Australia
14:00-14:20	Title: The mechanism of the base-free $Ru(PTA)_4Cl_2$ catalyzed hydrogenation of CO_2 to formic acid Edward N. Brothers, Texas A&M University at Qatar, Qatar
14:20-14:40	Title: Structural and electrochemical study of IrO_2 and NiO-coated Ni Anode by atomic layer deposition (ALD) DJ Donn Matienzo, Industrie de Nora S.p.A, Italy
14:40-15:00	Title: Laccase-Electrospun materials as biocatalytic systems for application in environmental protection Jakub Zdarta, Poznan University of Technology, Poland
15:00-15:20	Title: Low-temperature synthesis and inkjet printing of photoactive TiO_2 on polymeric substrates Hesam Maleki, University of Liverpool, United Kingdom
15:20-15:40	Title: Pyrazole as a corrosion inhibitor for carbon steel in aqueous media Mohamed A. Abbas, Egyptian Petroleum Research Institute, Egypt
15:40-16:00	Title: Using polyisobutylene-supported sulfur ligands for metal sequestering Hassan Said Bazzi, Texas A&M University at Qatar, Qatar
16:00-16:20	**Coffee Break** **@ Foyer**
16:20-16:40	Title: Inorganic oxide systems with immobilized laccase as tools for dyes decolorization Katarzyna Jankowska, Poznan University of Technology, Poland
16:40-17:00	Title: Optimal design and sensitivity analysis of Gas-solid reactor for efficient H2 storage Di Wang, Northwest University, China
17:00-17:20	Title: The effect of ionic liquids on the photocatalytic activity of BiOX semiconductors in cytostatic drug degradation Ewa Maria Siedlecka, University of Gdańsk, Poland

17:20-17:40	Title: Preparation of activated carbon derived from arecanut shell agro waste using phosphoric acid catalyst : Estimation of ferets diameter Abhijit Shankar Jadhav, Department of Chemical of Engineering AISSMS COE, India
17:40-18:00	Title: Plasma surface activation of fibers for immobilization of enzymes on conductive and non-conductive textiles: Application to various processes Nemeshwaree Behary, Lille University, France
18:00-18:20	Title: Hydrogenation of Dibenzo-18-crown-6 ether using γ-Al_2O supported Ru-Pd and Ru-Ni bimetallic nanoalloy catalysts Yogeshwar R. Suryawanshi, S.V. National Institute of Technology, India
18:20-18:40	Title: Thermodynamic modeling for the carbonate system na-k-hco_3-co_3 in alkanolamines solutions: An extended application for CO_2 scrubbing Zhibao Li, University of Chinese Academy of Sciences, China

END OF DAY 1

Day 2 : September 17, 2019 (Tuesday) @ Atlantis

08:30-09:00	Welcome Snacks and Coffee
Moderator	Cassia Boyadjian, American University of Beirut, Lebanon

Keynote Presentations

09:00-09:40	Title: Passivation by atomic layer deposition to increase the lifetime of Co/Al_2O_3 catalysts in the Fischer-Tropsch synthesis José Antonio Díaz López, Universidad Politécnica de Madrid (UPM), Spain
09:40-10:20	Title: Industrialization of (catalytic) chemistry in flow Q.B. Broxterman, InnoSyn BV, The Netherlands
10:20-11:00	Title: Process intensification: New perspectives for Chemical Engineering Eugenio Meloni, University of Salerno, Italy
11:00-11:20	**Coffee Break** **@ Foyer**
11:20-12:00	Title: Predictions of chemical reactivity with theoretical calculations Vitalina Kukueva, Cherkassy State Technological University, Ukraine

Oral Presentations

Sessions on:	Environmental Catalysis | Heterogeneous Catalysis | Catalysis in Nanotechnology | Catalytic Materials | Catalysis and Zeolite | Recent Trends in Catalysis Research
Session Chairs:	Q.B. Broxterman, InnoSyn BV, The Netherlands Eugenio Meloni, University of Salerno, Italy José Antonio Díaz López, Universidad Politécnica de Madrid (UPM), Spain

12:00-12:20	Title: Photoelectrocatalytic removal of anticancer drug from water solution Aleksandra Pieczyńska, University of Gdańsk, Poland
12:20-12:40	Title: Design and fabrication of hybrid Nano-Filters for waste water remediation Qurat Ul Ain Nadeem, University of Liverpool, UK
12:40-13:00	Title: Structure & performance of Li/MgO supported molybdenum oxide for oxidative cracking of N-Hexane Cassia Boyadjian, American University of Beirut, Lebanon
13:00-14:00	**Lunch Break** **@ RBG Restaurant**
14:00-14:20	Title: The conversion of poly aromatic hydrocarbon into fine chemicals and fuels over molybdenum phosphide supported on various acidic and porous materials Muhammad Usman, King Fahd University of Petroleum and Minerals, Saudi Arabia
14:20-14:40	Title: Confinement effect of alcohols and water in MFI Zeolite from Ab Initio molecular dynamics simulations Mal-Soon Lee, Pacific Northwest National Laboratory, United States
14:40-15:00	Title: Synthesis, characterization, and application of MOF@clay composite as a visiblelight-driven photocatalyst for environmental remediation Radheshyam Rama Pawar, Kyushu University, Japan
15:00-15:20	Title: Cluster beam deposition of preformed metal clusters for liquid and vapour phase catalysis Rongsheng Cai, Swansea University, United kingdom
15:20-15:40	Title: NMR Methods for operando analysis of heterogeneous catalytic processes Mojtaba Mirdrikvand, The University of Bremen, Germany
15:40-16:00	Title: Environment management and advancing technological processes for technical lead production Ahmet Haxhiaj, University of Mitrovica, Republic of Kosova
16:00-16:20	**Coffee Break** **@ Foyer**
16:20-16:40	Title: Novel efficient Pd-free catalyst for Suzuki C-C coupling reaction: Green protocol Mohamed Mokhtar, King Abdulaziz University, Saudi Arabia

16:40-17:00	Title: Novel synthesis of mesoporous alumina by hydrothermal technique & their role as catalyst support for valuable chemicals Sujatha Parmeswaran, Veermata Jijabai Technological Institute (VJTI), India
17:00-17:20	Title: Supercritical fluids as reaction media for scalable production of carbon nanomaterials Haider Hassan A. Almkhelfe, Midland Refineries Company, Iraq
17:20-17:40	Title:Synergistic Catalysis of nano-metal and semiconductor (metal oxides) molecular/ atomic-layer film coated on the support of Novel Hybird complex nano-structured Pt Catalyst prepared by photochemical route Jicheng Zhou, Xiangtan University, China
17:40-18:00	Title: Nanocomposites with different metals as magnetically separable nanocatalysts for oxidation of aldehydes Akbar Esmaeili, Islamic Azad University, Iran
18:00-18:20	Title: Pd Nanoparticles supported on copper oxide prepared via microwave-Assisted synthesis: An efficient catalyst for suzuki cross-coupling M. A. Sadek, British University in Egypt, Egypt

16:20-17:20 Poster Presentations @ Foyer

CATPP- 001	Title: Heteropoly acid supported on silica catalyst for dehydration of methanol to dimethyl ether Rawan Al-Faze, University of Liverpool, United Kingdom
CATPP- 002	Title: Solution plasma synthesis of catalytic carbon composite materials for oxygen reduction reaction Takahiro Ishizaki, Shibaura Institute of Technology, Japan
CATPP- 003	Title: Diethylaminoethyl cellulose (DEAE-C): A catalyst for applications in heterocyclic synthesis Karzan K Aljaf, University of Pavia, Italy
CATPP- 004	Title: Catalytic impact of Red Mud and metal oxides on the upgrading of fast pyrolysis vapour of biomass Jyoti Gupta, Xi'an Jiaotong-Liverpool University, China
CATPP- 005	Title: Gas-phase hydrotreatment reactions of 2,5-Dimethylfuran using bifunctional Metal-Acid Catalysts Hanan. A. Althikrallah, University of Liverpool, United Kingdom
CATPP- 006	Title: Palladium nanocatalyst supported on chitosan and its catalytic performance in Suzuki- Miyaura coupling reactions Hamad M. Al-Matar, University of Kuwait, Kuwait
CATPP- 007	Title: Synthesis of nitrogen-doped nanocarbons by solution plasma process using cyano-aromatic molecules for catalyst of oxygen reduction reaction Ai Serizawa, Shibaura Institute of Technology, Japan

CATPP- 008
Title: Ammonia synthesis activity of nanostructured $Ni_2(W,Mo)_3N$ and $Co_3(W,Mo)_3N$ Compounds
S. Al Sobhi, University of Southampton, United Kingdom

CATPP- 009
Title: Surface property-activity relations of Co/Sn oxide nanocatalysts evaluated using a model reaction: Surface characterization study
Ndzondelelo Bingwa, University of Johannesburg, South Africa

CATPP- 010
Title: Oxidative desulfurization of diesel fuel catalyzed by carbon-supported polyoxometalates
Reem Ghubayra, University of Liverpool, United Kingdom

CATPP- 011
Title: Catalytic CO oxidation by Fe doped penta-graphene: A density functional study
Wenliang Li, Northeast Normal University, China

CATPP- 012
Title: Controlling the regio- and stereoselectivity of hydrosilylation reaction catalyzed by platinum(0) complexes bearing bulky N-heterocyclic ligand
Małgorzata Bołt, Adam Mickiewicz University in Poznań, Poland

CATPP- 013
Title: A mechanistic investigation into N-heterocyclic carbene (NHC) catalyzed umpolung of ketones and benzonitriles: is the cyano group better than the classical carbonyl group for the addition of NHC?
Haiyan Yuan, Northeast Normal University, China

CATPP- 014
Title: Applying unreacted-core model analysis for delignification during a water/1-butanol co-solvent treatment
Yuki Kawamata, Hokkaido University, Japan

CATPP- 015
Title: Application of catalytic hydrogenation in the synthesis of hydroxylated Pillar[5]arene-based Amphiphiles
Abdirahman A. Mohamod, University of Kuwait, Kuwait

CATPP- 016
Title: Magnetic composite for wastewater treatment and control with visible light
Huanling Xie, Chongqing University of Technology, China

CATPP- 017
Title: Activation of peroxymonosulfate by magnetic nitrogen-doped graphene for the degradation of organic pollutants in water
Qilong Xie, Chinese Academy of Sciences, China

CATPP- 018
Title: Immobilization of bisphosphine ligands on nanomagnetite Pd/Fe_3O_4
Ashouri Akram,University of Kurdistan, Iran

CATPP- 019
Title: A novel design for ammonia production
Seyyed Mohammad Jokar, Shiraz University of Technology, Iran

CATPP- 020
Title: Cobalt aluminate-modified alumina as a carrier for cobalt in Fischer–Tropsch synthesis
Yan Liu, Chinese Academy of Sciences, China

CATPP- 021
Title: SiC thin films loaded Cu as a visible light responsive photocathode for the photoelectroreduction of CO_2
KACI Samira, Research Center on Semiconductor Technology for Energetic, Algeria

CATPP- 022
Title: Fatty acid methyl ester analysis of olive oil degraded by Pseudomonas fluorescens and enzymatic characterisation of the lipase
Popoola Bukola Margaret, Ajayi Crowther University, Nigeria

CATPP- 023
Title: Activation of CO on Cobalt catalyst supported on Al_2O_3: Promoted by Ru
Dekui Sun, Chinese Academy of Sciences, China

CATPP- 024
Title: Selective catalysis reduction of NO by NH_3 over Co/Cr-Ce catalysis at mid-low temperature
Zhihang Chen, Guangdong Key Lab of Water & Air Pollution Control, China

E-Poster Presentations

CATEP- 01
Title: CFD simulation of crude petroleum boiling process inside reboilers
Alon Davidy, Heat Transfer Researcher, Israel

CATEP- 02
Title: The decomposition reaction of hydrogen peroxide by the model catalysts
Nazym Zhunusbekova, Satbayev University, Kazakhstan

CATEP- 03
Title: Chemoselective Transfer Hydrogenation of Multifunctional Nitro Compouds Catalyzed by Silver Nanoparticles: A Facile Synthetic Methodology towards Dihydroquinoxalin-2-ones
Domna Iordanidou, Aristotle University of Thessaloniki, Greece

CATEP- 04
Title: Stereocontrolled Biocatalytic Reductions of Carbonyl Compounds
Ioulia Smonou, University of Crete, Greece

CATEP- 05
Title: The 3-axis portable filament winding machine embedded with wireless technology
Ma Quanjin, Universiti Malaysia Pahang, Malaysia

CATEP- 06
Title: Characterization of polymer-silicate composite materials
Nazym Zhunusbekova, Satbayev University, Kazakhstan

END OF DAY 2

Day 3 : September 18, 2019 (Wednesday) @ Atlantis

08:30-09:00 Welcome Snacks and Coffee

Moderator Yogeshwar R. Suryawanshi, S.V. National Institute of Technology, India

Keynote Presentations

09:00-09:40 Title: In situ magic angle spinning NMR: A powerful tool for catalyst research
Jian Zhi Hu, Pacific Northwest National Laboratory, USA

09:40-10:20 Title: Ultrathin iron-cobalt oxides nanosheets as highly active electrocatalyst for water splitting
John Zhonghua Zhu, The University of Queensland, Australia

10:20-11:00 Title: Structurally- dimensional effects in selective heterogeneous catalysis of renewable biomass into important products of petrochemistry
M.V.Tsodikov, A.V.Topchiev Institute of Petrochemical Synthesis RAS, Russia

11:00-11:20 **Coffee break** **@ Foyer**

Special Talk

11:20-11:40 Title: Textual differences between the engineering research article (RA) and its subsequent poster
Tharwat Mohamed EL-Sayed EL-Sakran, American University of Sharjah, UAE

Oral Presentations

Sessions on: Synthetic Chemistry Techniques | Green and sustainable chemistry| Nuclear Chemistry/ Radiochemistry | Analytical methodologies | Organometallics and Catalysis | Fluid Mechanics | Catalysis and Applications

Session Chairs: Jian Zhi Hu, Pacific Northwest National Laboratory, USA
M.V.Tsodikov, A.V.Topchiev Institute of Petrochemical Synthesis RAS, Russia

11:40-12:00 Title: Dynamics of flow pattern in standard mixing vessel stirred by pitched blade turbine
Tomáš Brůha, Institute of Termomechanics, Czech Republic

12:00-12:20 Title: A prospective life-cycle assessment (LCA) of monomer synthesis: Comparison of biocatalytic and oxidative chemistry
Marie A.F. Delgove, Aachen-Maastricht Institute for Biobased Materials (AMIBM), The Netherlands

12:20-12:40 Title: Design and application of virus imprinted polymer (VIP) for the rapid and selective detection of Foot-and-Mouth Disease Virus (FMDV)
Rasha Mohamed El Nashar, Cairo University, Egypt

12:40-13:00 Title: A Novel synthesis of thiolato and phenoxo platinum (II) complexes by using phase transfer catalysis
Ja'afar K. Jawad, Dean in the International University of Erbil, Iraq

13:00-14:00	**Lunch Break**	**@ RBG Restaurant**
14:00-14:20	Title: Palladium-catalyzed ß-C(sp3)-H arylation of weinreb amides via acidic ligands Guanghui An, Heilongjiang University, China	
14:20-14:40	Title: Energy flux from the sun and the greenhouse gases in the infrared to the earth harvested as boson-supply in platinum-fullerene compound material and as source of electrons for electrical applications Hans Wilfried Peter Koops, HaWilKo GmbH, Ernst Ludwig Strasse, Ober-Ramstadt, Germany, CEO, Germany	
14:40-15:00	Title: Ozonation in a Multi-Orifice oscillatory baffled column Marco Paulo Gomes Sousa Lucas, Universidade de Trás-os-Montes e Alto Douro, Portugal	
15:00-15:20	Title: ^{51}V-NMR chemical shifts and analyses of vanadium complex catalysts: A Cooperation of QC calculation and MLR analysis Masahiko Hada, Tokyo Metropolitan University, Japan	
15:20-15:40	Title: Towards a transient multi-site kinetic model of cu-chabazite for NH_3-SCR linked to the active site hydrothermal aging kinetics Can Erkey, Koç University, Turkey	
15:40-16:00	Title: Noble and base-metal nanoparticles supported on mesoporous metal oxides: Efficient catalysts for the selective hydrogenation of levulinic acid to γ-valerolactone Matumuene Joe Ndolomingo, University of Johannesburg, South Africa	
16:00-16:20	**Coffee Break**	**@ Foyer**
16:20-16:40	Title: Cobalt ion species in water as an active homogeneous catalyst for oxidative decomposition of ammonium ion with ozone Haruka Aihara, Japan Atomic Energy Agency, Japan	
16:40-17:00	Title: Palladium/carbon nanotubes/charcoal hybrid composite and its catalytic behavior in the hydrogenation of trans-cinnamaldehyde Elaine Yoshiko Matsubara, University of São Paulo, Brazil	
17:00-17:20	Title: Organocatalyzed domino reactions for asymmetric organic synthesis Bhoopendra Tiwari, Centre of Biomedical Research, India	
17:20-17:40	Title: Chemical engineering and the new generation of multi-purpose catalyst test setup with investigation of the catalytic process of MeOH to light olefin Arash Goshtasbi Asl, Technology Consultant, DFK Company, Iran	
17:40-18:00	Title: Synthesis and characterization of catalysts based on Pd-Ni bimetallic nanoparticles Sana Kabdrakhmanova, Kazakh National Research Technical University, Kazakhstan	

*****END NOTE*****

PS: Please be informed that there may be slight change in the program for any reasons. So, be available in the hall on whole day of your presentation

We wish to meet you again at our other Magnus Catalysis Events

Catalysis, Chemical Engineering and Technology

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Catalysis, Chemical Engineering and Technology

September 21-23, 2020 | Paris, France

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Catalysis and Chemistry Conference

October 22-24, 2020 | Orlando, USA

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