

HAZEL GROUP

TENTATIVE

Global Conference on

CATALYSIS & APPLIED CHEMICAL ENGINEERING

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2021

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TENTATIVE AGENDA

TITEL: (REMOVAL EFFICIENCY OF Pb(II), Zn(II), Cd(II) AND Cu(II) FROM AQUEOUS SOLUTION AND NATURAL WATER BY KETOENOL-PYRAZOLE RECEPTOR FUNCTIONALIZED SILICA HYBRID ADSORBENT

Shehdeh Jodeh, An_Najah National University, Palestine

TITLE : SYNTHESIS, STRUCTURAL CHARACTERISATION AND SPECTROSCOPIC PROPERTIES OF NEW DEFECT

Aziz Elhaimouti, University Sultan My Slimane, Morocco

TITLE : FUNCTIONALIZED PORPHYRINS AS ELECTROCHEMICAL MEDIATORS OR CATALYSTS FOR ORGANIC REACTIONS

Eugenia FAGADAR-COSMA, Institute Of Chemistry "Coriolan Dragulescu", Romania

TITLE : DESIGNING A HETEROGENEOUS CATALYST: DEVELOPMENT OF A REFORMING CATALYST FOR HYDROGEN PRODUCTION

Shakeel Ahmed, King Fahd University Of Petroleum & Minerals, Saudi Arabia

TITLE : EVALUATING THE POTENTIAL OF FORCED PERIODIC OPERATIONS OF CHEMICAL REACTORS - THE NONLINEAR FREQUENCY RESPONSE APPROACH

Menka Petkovska, University of belgrade, Serbia

TITLE : PHOTOCHEMICAL CONSTRUCTION OF MICRO/NANO-STRUCTURED SEMICONDUCTOR FOR APPLICATION IN PHOTOCATALYSIS AND GAS SENSOR

Sun Fengqiang, South China Normal University, China

TENTATIVE AGENDA

TITEL: DESING OF A REUSABLE COOPERATIVE CATALYTIC SYSTEM WITH CO-IMMOBILIZATION OF PALLADIUM NANOPARTICLES AND LACCASE ON MESOCELLULAR FOAMS FOR BIOMIMETIC AEROBIC OXIDATION REACTIONS

Amin rostami, University of Kurdistan, Iran

TITLE : ENZYMATIC SYNTHESIS OF BIOBASED OLIGOMERS AND POLYMERS WITH NEW FUNCTIONALITIES

Francisc Peter, University Politehnica of Timisoara, Romania

TITLE : Ti, HDTMA AND AL/FE PILLARED BENTONITE FOR ANIONIC DYE AQUEOUS SOLUTION TREATMENT ADSORBENT REGENERATION

Fadhila Ayari, University of Carthage, Tunisia

TITLE : POINT DEFECTS IN CERAMICS AND SEMICONDUCTOR NANOMATERIALS AND THEIR MAJOR ROLES IN SUPERCAPACITOR DEVICES

Emre Erdem, Sabanci University, Turkey

TITLE : ENHANCED PHOTOCATALYTIC DEGRADATION OF POLYCYCLIC AROMATIC HYDROCARBONS USING VISIBLE LIGHT ACTIVE/PHOSPHORUS-DOPED TiO₂ NANOCOMPOSITE

Kingsley Amakiri, University of Huddersfield, United Kingdom

TITLE : BAND EDGE ENGINEERING IN METAL OXIDE HETEROSTRUCTURES FOR EFFICIENT CHARGE SEPARATION FOR SOLAR WATER OXIDATION IN PHOTOELECTROCHEMICAL CELL

Aadesh P. Singh, Aalto University, Finland

TENTATIVE AGENDA

TITEL: APPROACHES FOR BROADENING LIGHT ACTIVE SPECTRUM AND ENHANCEMENT OF PHOTO-INDUCED CARRIER SEPARATION TOWARDS HIGH PERFORMANCE PHOTOCATALYSTS.

Hong Liu, University of Jinan, China

TITLE : APPLICATIONS OF ENVIRONMENTAL ELECTROCHEMISTRY: CURRENT STATUS AND PERSPECTIVES.

Kangwoo Cho, University of Pohang, Korea

TITLE : STUDY OF MECHANICAL PERFORMANCE OF ADJUVANTED CONCRETE WITH PHOSPHATE INHIBITORS.

Latefa SAIL, Aboubekr Belkaid university, Tlemcen- Algeria

TITLE : APPLICATION OF BISMUTH'S CATALYSTS AS ENHANCEMENT OF FUEL PRODUCTION IN TWENTY-FIRST CENTURY.

Ayodele Temidayo Odularu, University of Fort Hare, South Africa

TITLE : ULTRA-THIN, LOW PHOTOCATALYTIC ACTIVITY TITANIA FILM FOR HIGHLY UV-RESISTANT AND THERMAL MANAGEMENT SILK FIBERS/FABRICS.

Binghai Dong, Hubei University, China

TITLE : SYNTHESIS AND CHARACTERIZATION OF SELECTED SOUTH AFRICAN KAOLIN DEPOSIT FOR CATALYTIC PYROLYSIS OF MUNICIPAL PLASTIC WASTE.

Olusegun Ayodeji Olagunju, Durban University of Technology, South Africa

TENTATIVE AGENDA

TITEL: DEPOSITION OF CARBON DOTS AND SOME SEMICONDUCTORS ON NANOSHEETS OF GRAPHITIC CARBON NITRIDE TO FABRICATE HIGHLY EFFICIENT VISIBLE-LIGHT-DRIVEN PHOTOCATALYSTS

Aziz Habibi-Yangjeh, University of Mohaghegh Ardabili, Iran

TITLE : IMPACT OF FUEL ADDITIVES ON COMBUSTION PROCESS AND SOOT FORMATION

Yang Wenming, National University of Singapore, Singapore

TITLE : NANOCLAY MODULATES THE INTERFACE STRUCTURE OF CATALYTIC MATERIALS

Huaming Yang, Central South University, China

TITLE : NANOSCIENCE AND NANOTECHNOLOGY EDUCATION: LAB ACTIVITIES AND EXPERIMENTS.

Riam abu-much, The Academic Arab College for Education in Haifa Israel, Israel

TITLE : INVESTIGATING LOCAL STRUCTURE AND PHASE-STABILITY OF ION-IRRADIATED (Ni²⁺) ROCKSALT COO FILM AS ELECTROCATALYST BY XAFS SIMULATION USING EVOLUTIONARY ALGORITHM

Latif Ullah Khan, Synchrotron-Light for Experimental Science and Applications in the Middle East, Jordan

TITLE : THERMAL STABILITY OF IONIC LIQUIDS: EVAPORATION VS DECOMPOSITION, TGA AND DSC..

Dzmitry H. Zaitsau, University of Rostock, Germany

TITLE : INCREASING ACIDITY ON AMORPHOUS SILICA-ALUMINA VIA HIGHLY DISPERSED SURFACE PENTACOORDINATED ALV SPECIES

Zichun Wang, Macquarie University, Australia

TITLE : DIP-CATALYSTBASED ON PLANT STEM-SUPPORTED METAL NANOPARTICLES: A GREEN AND SUSTAINABLE STRATEGY FOR AGRICULTURE RESIDUE BENEFICIATION

Mohammed Nasiruzzaman Shaikh, King Fahd University, Saudi Arabia

TITLE : STRUCTURED MICRO-FIBROUS CATALYSTS

Andrey Zagoruiko, Boreskov Institute Of Catalysis, Russian Federation

TITLE : GREEN IMMOBILIZATION MATRICES: THE KEY TO EFFICIENT UTILIZATION OF ENZYMES IN FOOD AND DRUG INDUSTRIES

Marwa Wahba, National Research Centre, Egypt

TITLE : ORIGIN OF THE SALINIZATION OF GROUNDWATER IN THE PALM GROVE OF BENI ABBES (SAOURA VALLEY, SOUTH WEST ALGERIAN).

Merzougui Touhami, University of Bechar, Algeria

TITLE : SUB-GRID MESO-SCALE MODELING AND APPLICATIONS IN GAS-SOLID FLUIDIZED CATALYTIC REACTORS

Bona Lu, Institute of Process Engineering, Chinese Academy of Sciences, China

TITLE : COMBUSTION SYNTHESIS: FROM MINERALS TO NANOMATERIALS

Andrzej Huczko, Warsaw University, Poland

**TITLE : LIQUID DROPLET IMBIBITION INTO A THIN COATING LAYER:
DIRECT PORE-SCALE MODELING AND EXPERIMENTAL OBSERVATIONS**

Hamed Aslannejad, Utrecht University, Netherlands

**TITLE : ULTRA-FAST LIQUID CHROMATOGRAPHIC METHOD FOR
QUANTIFICATION OF CURCUMIN IN EXTRACT OF CURCUMA LONGA L.:
A GREEN CHEMISTRY APPROACH**

Mahmood Ahmed, Renacon Pharma Limited, Pakistan

TITLE : BENEFITS OF GREEN CATALYSIS FOR ORGANIC SYNTHESIS

Heba Hashem, Ain Shams University, Egypt

**TITLE : IDEAL AND GREEN HYDROCARBOXYLATION OF ETHYLENE TO
PROPANOIC ACID OVER SUPPORTED RHODIUM CATALYSTS**

Jeno Bodis, Babes-Bolyai University, Romania

**TITLE : SURFACE ENHANCED INFRARED ABSORPTION SPECTROSCOPY
OF SOME SELECTED SURFACE ACTIVE AGENTS AND THEIR
APPLICATIONS**

Ramsingh Kurrey, Pt. Ravishankar Shukla University Raipur, India

**TITLE : MECHANISTIC INVESTIGATION OF ULTRASOUND ASSISTED
OXIDATIVE DESULFURIZATION USING PHASE TRANSFER CATALYST**

Jaykumar B. Bhasarkar, Laxminarayan Institute of Technology, India

**TITLE : TAKING ONE STEP BACK TO TAKE MANY STEPS FORWARD
IN ELECTROCATALYSIS**

Mesfin Haile, Vrije Universiteit Brussel, Belgium

TITLE : DEVELOPMENT OF ETHANOL SYNTHESIS FROM SYNGAS OVER A CUZNAL CATALYST

Wei Huang, Taiyuan University of Technology, China

TITLE : PHYSICOCHEMICAL PARAMETERS AND HEAVY METALS ANALYSIS OF OIL POLLUTED GROUND WATER IN BARUWA COMMUNITY

Temitope OM, Federal University Of Technology Akure, Akure, Nigeria

TITLE : CATALYSTS FOR THE PRODUCTION OF VALUE-ADDED CHEMICALS FROM BIOMASS DERIVED LEVULINIC ACID

Asima Sultana, National Institute Of Advanced Industrial Science &Technology, Japan

TITLE : LIQUID ORGANIC HYDROGEN CARRIERS: AN UPCOMING ALTERNATIVE TO CONVENTIONAL TECHNOLOGIES

Sergey Verevkin, University of Rostock, Germany

TITLE : FAST GROWTH AND MODULATION OF GAN NANOWIRES BY MICROWAVE PLASMA CHEMICAL VAPOR DEPOSITION

Wang Ruzhi, Beijing Univity Of Technology, China

TITLE : MAGNETIC METAL FERRITES AS GREEN AND SUSTAINABLE NANO CATALYST FOR ORGANIC REACTIONS

Firouz Matloubi Moghaddam, Sharif University Of Technology, Iran

TITLE : HYDROGENATION OF LEVULINIC ACID WITH AND WITHOUT EXTERNAL HYDROGEN OVER NI/SBA-15 CATALYST

Mohan Varkolu, University Of Hyderabad, India

TITLE : ADVANCED, FANCY SHAPED NANOPARTICLES FOR CATALYTIC APPLICATIONS.

Magdalena Parlinska-Wojtan, Instytut of Nuclear Physics PAN, Poland

TITLE : DYNAMIC COVALENT BONDS IN PREPARATION OF SELF-HEALING POLYURETHANE ELASTOMERS

Masoud Yarmohammadi, KN Toosi University Of Technology, Iran

TITLE : SYNTHESIS OF SULPHONIC ACID FUNCTIONALIZED CORE-SHELL MAGNETIC MESOPOROUS SILICA ADSORBENT

Syed Mazhar Shah, University Of Engineering & Technology Lahore, Pakistan

TITLE : DESIGNING AND DEVELOPING CONTROLLED RELEASING FERTILIZER USING STARCH-BASED HYDROGEL

Long YU, South China University Of Technology, China

TITLE : PHOTOCATALYTIC SYSTEMS FOR ADVANCED ENVIRONMENTAL REMEDIATION APPLICATIONS

Raju Kumar Gupta, Indian Institute Of Technology Kanpur, India

TITLE : DEVELOPMENT OF ELECTROCATALYSTS AND THEIR STRUCTURAL EVOLUTION

Guanjie He, University Of Lincoln/UCL, UK

TITLE : TUNING THE ELECTRON LOCALIZATION OF GOLD ENABLES THE CONTROL OF NITROGEN-TO-AMMONIA FIXATION

Jianyun Zheng, Hunan University, China

TITLE : STRUCTURAL EFFECT ON THE ACTIVITY AND DURABILITY OF THE ELECTROCATALYSTS.

Pei Kang Shen, Guangxi University, China

TITLE : FRAMEWORK PHOSPHATES AS CATALYSTS OF ALCOHOLS' CONVERSION

Elena Asabina, Lobachevsky University, Russian Federation

TITLE : X-RAY DIFFRACTION & OPTICAL SPECTROSCOPY TOGETHER ... FOREVER !

Habib Boughzala, Preparatory Institute for Engineering Studies of Nabeul, Tunisia

TITLE : DIRECT ETHANOL FUEL CELLS FOR A SUSTAINABLE ENERGY FUTURE

Liang An, The Hong Kong Polytechnic University, China

TITLE : MECHANISMS OF CATALYTIC GRAPHITIZATION OF DIAMOND SURFACE

Viera Skakalova, University of Vienna, Austria

TITLE : FUNCTIONALIZED COVALENT ORGANIC FRAMEWORKS FOR PHOTOCATALYSIS.

Pradip Pachfule, Technical University Berlin, Germany

TITLE : TUNING THE ELECTRON LOCALIZATION OF GOLD ENABLES THE CONTROL OF NITROGEN-TO-AMMONIA FIXATION

Jianyun Zheng, Hunan University, China

TITLE : CATALYTIC COMPOSITE MEMBRANE FOR ESTERIFICATION ENHANCEMENT

Weixing Li, Nanjing Tech University, China

TITLE : DEEP EUTECTIC SOLVENTS (DESS) AS PROMISING GREEN CATALYSIS AND SOLVENTS FOR BIODIESEL PRODUCTION: STATE-OF-THE-ART, PROSPECTS AND CHALLENGES

Weidong Lu, Shaoguan University, United States

TITLE : A NOVEL DESIGN OF CATALYST LAYER INTEGRATED WITH SOLID ELECTROLYTE IN THE METAL-O₂ BATTERY

Yuan-Cheng Cao, Huazhong University Of Science And Technology (HUST), China

TITLE : SOME STRATEGIES ON C-H FUNCTIONALIZATION

Xiuling Cui, Huoqiao University, China

TITLE : HYDROTHERMAL ASSISTED SYNTHESIS OF ZNFE₂O₄ EMBEDDED G-C₃N₄ NANOCOMPOSITE WITH ENHANCED CHARGE TRANSFER ABILITY FOR EFFECTIVE REMOVAL OF NITROBENZENE AND CR(VI)

Shajahan Shanavas, Periyar University, India

TITLE : PHOTOCATALYTIC CHEMICAL REACTIONS

Dong-Hau Kuo, National Taiwan University of Science and Technology, Taiwan

TITLE : GREEN SYNTHESIS OF LOW-DIMENSIONAL NANOMATERIALS FOR CATALYTIC AND GAS-SENSING APPLICATIONS.

Deliang Chen, Zhengzhou University, China

TITLE : CO OXIDATION OVER Pd1/GRAPHENE: A FIRST-PRINCIPLES INVESTIGATION

Xin Liu, Dalian University of Technology, China

TITLE : TAILORING THE PHOTOCATALYTIC PROPERTIES OF Ti@TiO₂ NANOPARTICLES FOR ADVANCED PHOTOTHERMAL HYDROGEN PRODUCTION FROM AQUEOUS SOLUTIONS

Sara EL HAKIM, Marcoule Institute for Separation Chemistry, France

TITLE : CO₂ ENHANCED OXIDATIVE DEHYDROGENATION OF PROPANE TO PROPYLENE OVER GAN BASED CATALYSTS.

Zhao-Tie Liu, Shaanxi Normal University, China

TITLE : ROLE OF METALLIC SURFACES IN HETEROGENOUS CATALYSIS

Prafulla jha, The Maharaja Sayajirao University of Baroda, India

TITLE : DESIGN AND DEVELOPMENT OF NEW EFFICIENT ROUTES FOR THE SYNTHESIS OF BIOLOGICALLY IMPORTANT HETEROCYCLES VIA CATALYTIC C-C AND C-HETEROATOM BOND FORMATION.

Hiriyakkanavar Ila, Jawaharlal Nehru Centre for Advanced Scientific Research, India

TITLE : MAS NMR OF CATALYTIC REACTIONS

Ago Samoson, Tallinn University of Technology, Estonia

TITLE : THERMALLY REDUCED GRAPHENE: SYNTHESIS, CHARACTERIZATION, AND APPLICATIONS IN POLYMER NANOCOMPOSITES

Muhammad Z. Iqbal, United Arab Emirates University, United Arab Emirates

**TITLE : PHOTOCATALYTIC INACTIVATION MECHANISM OF THE
HYPERTOXIC SITE IN AFLATOXIN BI OVER Z-SCHEMATIC COMPOSITES**

Mao Jin, Chinese Academy Of Agricultural Sciences, China

**TITLE : MECHANISM AND APPLICATION OF VISIBLE LIGHT
PHOTOCATALYSIS ON MYCOTOXINS DEGRADATION**

Peiwu Li, Chinese Academy Of Agricultural Sciences, China

**TITLE : POLY CRYSTALLIZED METAL NANO-COMPOSITE AS A
MECHANISM TO IMPROVE ENERGY HARVESTING IN THIN FILM
POLYMER SOLAR CELL**

Genene Mola, University Of Kwazulu-Natal, South Africa

**TITLE : METALLIC AND NON-METALLIC PLASMONIC
NANOSTRUCTURES FOR PHOTOCATALYSIS**

Zaizhu Lou, Jinan University, China

**TITLE : BIFUNCTIONAL PHOTO/ELECTROCATALYTIC HYDROGEN
GENERATION VIA WATER SPLITTING**

Dongpeng Yan, Beijing Normal University, China

**TITLE : ENHANCING RENEWABLE HYDROGEN GENERATION FROM
ETHANOL PHOTOREFORMING ON Au@TiO₂ CATALYSTS BY DEFECT
ENGINEERING**

Xu Xiang, Beijing University Of Chemical Technology, China

**TITLE : SELECTIVE AEROBIC OXYGENATION OF HYDROCARBONS
USING PHOTOREDOX CATALYSTS.**

Kei Ohkubo, Osaka University, Japan

TITLE : NANOSIZED IRON OXIDE AS EFFECTIVE CATALYST FOR HYDROGENATION OF CARBON DIOXIDE

Libor Kvitek, Palacky University in Olomouc, Czech Republic

TITLE : INVESTIGATIONS ON THE SLUG TWO-PHASE FLOW IN A HORIZONTAL PIPES: PAST, PRESENTS, AND FUTURE DIRECTIVES

Abdallelah Omer Mohammed, Middle East College, Oman

TITLE : BOILING HEAT TRANSFER ON MICRO-PIT SURFACES

Gangtao Liang, Dalian University of Technology, China

TITLE : GAS PHASE HETEROGENEOUS PHOTOCATALYTIC CONVERSION OF CO₂

Mohsen Padervand, University Of Maragheh, Iran

TITLE : SUNLIGHT-DRIVEN SEAWATER DESALINATION AND SIMULTANEOUS CO₂ CONVERSION.

Hyunwoong Park, Kyungpook National University, Korea

TITLE : INTENSIVE ENHANCEMENT OF H₂ GENERATION AND DETECTION IN TiO₂-BASED MATERIALS

Yun Gao, Hubei University, China

TITLE : STRUCTURAL SPECIFICITY OF CERIA SUPPORTED ATOMICALLY DISPERSED PLATINUM IS CRITICAL FOR SELECTIVE PARTIAL HYDROGENATION OF ACETYLENE

Olumide Ayodele, Iberian Nanotechnology Laboratory (INL) Portugal, Portugal

TITLE : POLYMERIC SHIFF BASE METAL COMPLEXES FOR ADVANCED ENERGY STORAGE, SENSING AND CATALYSIS

Daniil A. Lukyanov, Saint Petersburg State University, Russian Federation

TITLE : CLEAN ORGANIC PREPARATION: DUAL ROLES OF REACTANTS

Wei-Min He, Hunan University Of Science And Engineering, China

TITLE : ENHANCED PHOTOELECTROCATALYTIC ACTIVITY OF Bi2S3-TiO2 NANOTUBE ARRAYS HETERO-STRUCTURE UNDER VISIBLE LIGHT IRRADIATION

Changjian Lin, Xiamen University, China

TITLE : ISOLATION AND CHARACTERIZATION OF GREEN CELLOULOSE NANOFIBERS FOR REMOVAL OF ORGANIC CONTAMINANTS IN WASTEWATER

Zikhona Tywabi-Ngeva, Nelson Mandela University, South Africa

TITLE : ULTRASOUND-ASSISTED BIOMASS TRANSFORMATION INTO HIGH-VALUE CHEMICAL COMPOUNDS.

Rodrigo Cella, FEI University, Brazil

TITLE : OXIDATION OF AROMATIC HYDROCARBONS BY BIMETALLIC RHENIUM-TIN COMPLEXES WITH SCHIFF BASE LIGAND.

Veeranna Yempally, Punjab Engineering College (Deemed to be University), India

TITLE : VERIFICATION OF REACTION MECHANISM AND OPTIMIZATION OF CATALYST DESIGN VIA KINETIC MODELLING: CASE STUDIES IN HYDROGENATION REACTIONS

Philippe M. Heynderickx, Ghent University Global Campus, Korea

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