Poster Presentation (PP)

PP-01: *Preferential sites for adsorption of CO on Au_6 clusters using DFT based reactivity descriptors*
Ajanta Deka (Girijananda Chowdhury Institute of Management and Technology, India)

PP-02: *Mesoporous Carbon Nitride Materials for CO_2 Capture*
Dae-Hwan Park (Kyungnam University, Republic of Korea)

PP-03: *Efficient Micro and Nano Patterning of SWCNTs via Discontinuous Dewetting and Liquid-Bridge-Mediated Nanotransfer, and Application in CNT/Silicon Heterojunction Solar Cells*
Alexander Corletto (The University of Queensland, Australia)

PP-04: *Highly Active Nanostructured NiSDC Catalyst for Methane Partial Oxidation at a Reduced Temperature*
AbdAlwadood H. Elbadawi (The University of Queensland, Australia)

PP-05: *Synthesis of zeolite-cryogel composite*
Bolorjargal Gantumur (National University of Mongolia, Mongolia)

PP-06: *Coupling metal–organic frameworks and g-C_3N_4 to derive Fe@N-doped graphene-like carbon for peroxymonosulfate activation: Upgrading framework stability and performance*
Chao Liu (Beijing Forestry University, China)

PP-07: *Physical mixing of Cu_2O with UiO-66-NH_2 For Enhanced Photocatalytic Hydrogen Production*
Ching-Ping Chang (National Chiao Tung University, Taiwan)

PP-08: *Mesoporous Gold Films on Flexible Nanopaper for High Performance SERS Sensors*
Dabum Kim (Kyung Hee University, Republic of Korea)

PP-09: *Tailored synthesis of Zn–N co-doped porous MoC nanosheets towards efficient hydrogen evolution*
Dehua Zheng (Qingdao University of Science and Technology, China)

PP-10: *Stability Enhancement via Low Temperature Atomic Layer Deposition for Perovskite Solar Cells*
Ekyu Han (Korea Electronic Technology Institute, Republic of Korea)

PP-11: *Textile Sensor Consists of 2D Materials*
G M Nazmul Islam (University of Otago, New Zealand)

PP-12: *Nanosponges of High Surface Area Amorphous Zeolites as Heterogeneous Catalysts*
Ayan Maity (Tata Institute of Fundamental Research, India)

PP-13: *Synergistic effect of ZnO- $ZnFe_2O_4$ and UV activated peroxymonosulfate for degradation of Levofloxacin*
Diyun Chen (Guangzhou University, China)

PP-14: *Perovskite Supported Nickel Catalyst for Carbon Monoxide Methanation*
Hamidreza Arandiya (The University of Sydney, Australia)

PP-15: *Ru@MIL-53-NH_2-derived C-Al_2O_3 as highly active catalyst for levulinic acid hydrogenation into γ-valerolactone under ambient condition*
Hsi-Yen Wu (National Taiwan University, Taiwan)

PP-16: *Designed patterning of mesoporous metal films based on electrochemical micelle assembly combined with lithographical techniques*
Hyunsoo Lim (The University of Queensland, Australia)

PP-17: *Hollow TiO_2 Submicrospheres Assembled by Tiny Nanocrystals as Superior Anode for Lithium Ion Battery*
Jianjian Lin (Qingdao University of Science and Technology, China)

PP-18: *Rationally Designed Three-dimensional Si/SiO_x/C Nanoarchitecture for Enhancing Electrochemical/ Mechanical/Thermal Properties of Lithium-ion Battery Anodes*
Jung Ho Kim (University of Wollongong, Australia)

PP-19: *Multifunctional TiO_2@SiO_2@Fe_3O_4 Photocatalyst for Efficient Photodegradation on Pharmaceutical Emerging Contaminants*
Jia-Xuan Tan (National Taiwan University, Taiwan)

PP-20: *Mechanical Properties of 2D Ti_3C_2 Synthesised by Chemical Vapour Deposition*
Joel E. von Treifeldt (Queensland University of Technology (QUT), Australia)

PP-21: *Facile fabrication of Cu_xS_y/Carbon Composites using Lignosulfonate for Efficient Palladium Recovery under Strong Acidic Conditions*
Hao Liu (Dalian Polytechnic University, China)

PP-22: *Influence of alumina binder on supporting Pt catalyst onto mesoporous MFI zeolite extrudates*
John Lee (Institute for Basic Science (IBS), Republic of Korea)

PP-23: *High-performance Nanomaterials for Rechargeable Batteries: Beyond 2D Structures*
Jun Mei (Queensland University of Technology, Australia)

PP-24: *Layer-by-Layer Motif Heteroarchitecturing of N, S-Co-doped Reduced Graphene Oxide Wrapped Ni/NiS towards Water Splitting*
Mohamed Barakat Zakaria (Tanta University, Egypt)

PP-25: *Enhanced removal for H_2S by Cu-ordered mesoporous carbon foam*
Junwen Qi (Nanjing University of Science and Technology, China)

PP-26: *Application of Graphene Oxide with Energetic Materials*
Kay Chen (The University of Queensland, Australia)

PP-27: *In- situ transformation of metal–organic framework supported multimetallic species to highly efficient electrocatalysts for oxygen evolution reaction*
Jun-Hong Li (National Cheng Kung University (NCKU), Taiwan)

PP-28: *Electrochemical Soft-templating Synthesis of Mesoporous Ru Film and its Electrochemical Surface Modification to RuO_x towards Supercapacitor Electrode*
Kenya Kani (The University of Queensland, Australia)

PP-29: *Defined mechanofluorescent Hydrogels composed of DNA modules and 4arm starPEG Polymers*
Ricarda Schmidt (Albert-Ludwigs-University, Germany)

PP-30: *Comparative Analysis of Electrochemical Properties of CeO_2/rGO and CeO_2/MoS_2 Nanocomposites for Supercapacitor Applications*
M. Mohamed Ismail (Anna University, India)

PP-31: *Effect of Na addition and cooling rate on activation of Mg-Ni alloys for hydrogen storage*
Manjin Kim (The University of Queensland, Australia)

PP-32: *Coordination Polymers for Nanoglue and Seawater Battery*
Ming Hu (East China Normal University, China)

PP-33: *Investigating the surface area and pore structure of graphitic supercapacitor electrodes*
Michael Horn (Queensland University of Technology (QUT), Australia)

PP-34: *Cobalt nanoparticle supported on carbon cloth as non-PGM catalyst for Direct Hydrazine Fuel Cell*
Minho Son (Daegu Gyeongbuk Institute of Science & Technology (DGIST), Republic of Korea)

PP-35: *Sn_4P_3 nanoparticles embedded in nanofiber as a free-standing anode for sodium*
Lingbing (The University of Queensland, Australia)

PP-36: *Utilizing mining waste minerals as catalysts for fuel production*
Mohamed Hassan Mohamed (The University of Queensland, Australia)

PP-37: *A simple and inexpensive device for sensitive and selective quantification of Xanthomonas albilineans in sugarcane (Saccharum hybrid)*
Muhammad Umer (Griffith University, Australia)

PP-38: *Effect of particle size distribution on As(V) removal performance*
Mukter Zaman (Multimedia University, Malaysia)

PP-39: *Electrochemical Nitrogen Reduction Reaction on Two-Dimensional Antimonene Nanosheets for Ammonia Synthesis*
Munkhjargal Bat-Erdene (The University of Queensland, Australia)

PP-40: *A Novel Approach for the Development of Moisture Encapsulation for Perovskite Solar Cells*
Nochang Park (Korea Electronics Technology Institute (KETI), Republic of Korea)

PP-41: *Effect of Platinum Atom Nano-catalytic on Hydrogen Storage*
Po-Cheng Kang (National Chiao Tung University, Taiwan)

PP-42: *Degradation of Lignin to Aromatic Monomers over Sulfated Metal-Organic Framework (MOF-808)*
Po- Chun Han (National Taiwan University, Taiwan)

PP-43: *Engineered mesoporous silica-based nanoreactors for chemodynamic therapy*
Ranjith Kumar Kankala (Huaqiao University, China)

PP-44: *A machine learning approach to embryo selection in the context of In Vitro Fertilization (IVF)*
Rex Parsons (City Fertility (Global CHA IVF Partners), Australia)

PP-45: *Multi-color Fluorescence Nanoprobe Activated by Lysosomal Hydrogen Peroxide for Light-controlled "Double-Check" Bioimaging*
Run Zhang (The University of Queensland, Australia)

PP-46: *Neem leaves derived activated carbon based all solid-state symmetrical supercapacitor for high energy density*
Shashank Sundriyal (CSIR-Central Scientific Instrument Organisation (CSIR-CSIO), India)

PP-47: *Layered Double Hydroxide as A New Class of Gas Releasing Materials: Solid Materials that Release H_2S and NO in Response to Air*
Shinsuke Ishihara (National Institute for Materials Science (NIMS), Japan)

PP-48: *Synergy effect of spongy-like $Sn_2Ta_2O_7/SnO_2$ and modified carbon dots for excellent adsorption and strong full spectrum photocatalytic activity*
Shukun Le (Inner Mongolia University, Mongolia)

PP-49: *Synergy Between Metal and Oxide in Pt-WO_x/Al_2O_3 and Cu-WO_x/Al_2O_3 Catalysts for Green Diesel Production*
Srinivas Darbha (CSIR-National Chemical Laboratory, India)

PP-50: *Carbon-coated $Pd/Co(OH)_2$ hybrids for efficient bifunctional oxygen electrocatalysts and rechargeable Zn-air batteries*
Suyeon Hyun (Daegu Gyeongbuk Institute of Science & Technology (DGIST), Republic of Korea)

PP-51: *Synthesis of trimetallic mesoporous nanoparticles of PtPdRh and its electrocatalytic study*
Tomota Nagaura (JX Nippon Mining and Metals Corp., Japan)

PP-52: *Design of nanocarrier: Targeted drug delivery for evaluation of mitochondrial dynamics*
A.Vijaya Lakshmi (CSIR-Centre for Cellular and Molecular Biology, India)

PP-53: *Electric Alignment of Niobate-Clay Binary Nanosheet Colloids*
Wataru Ishitobi (Kyushu Institute of Technology, Japan)

PP-54: *Synthesis of MCP-1 Functionalized, Pd-embedded Metal-Organic Frameworks (MCP-1/Pd@MIL-100) for Monocytes-Targeting and Potential Photothermal Therapy)*
Wei- Cheng Chien (National Taiwan University, Taiwan)

PP-55: *Functional Porous 3D Graphene Monolith: Synthesis and Electrode Application for Supercapacitor*

and Electrocatalysis
Xiangfen Jiang (City University of Hong Kong, China)

PP-56: *The effects of trace additions of Sb and Zn on Cu_6Sn_5 lithium-ion battery anodes*
Xin Fu Tan (The University of Queensland, Australia)

PP-57: *Glycolysis of Poly(ethylene terephthalate) Highly Catalyzed by Nanoporous Zeolitic Metal Azolate Framework (MAF) Catalysts*
Yen-Tsz Bieh (National Taiwan University, Taiwan)

PP-58: *Synthesis of Continuous UiO-66-NH_2 on Anodic Aluminum Oxide Substrates for Salinity Gradient Power Generation*
Yi-Cheng Liu (National Taiwan University, Taiwan)

PP-59: *Niobium Oxyfluoride/Carbon Nanobelts as Anode for Sodium Ion Storage*
Yilan Wu (The University of Queensland, Australia)

PP-60: *Effect of Reduced Graphene Oxide Nanosheets on the Electrochemical Behavior of Bismuth Sulfide Nanorods for Supercapacitor Applications*
Muhammad Faisal Iqbal (Lahore Garrison University, Pakistan)

PP-61: *Metal–organic framework-based nanocomposites composed of dimensionally distinct graphene-based materials for electrochemical applications*
Yi-Sen Wang (National Cheng Kung University (NCKU), Taiwan)

PP-62: *Influence of O_2 Annealing on Resistive Switching Behavior of MoS_2-Based ReRAM*
Young-Woong Song (Yonsei University, Republic of Korea)

PP-63: *Impregnation of Graphene Quantum Dots into a Metal–Organic Framework to Render Increased Electrical Conductivity and Activity for Electrochemical Sensing*
Yu-Chuan Chen (National Cheng Kung University, Taiwan)

PP-64: *Series of metal complexes of N-benzyl HMTA: synthesis and absorption property for water purification*
Yunyin Niu (Zhengzhou University, China)

PP-65: *Material Biology: Study on Enzyme@Metal-Organic Frameworks Composites*
Yu-Shen Hsu (National Taiwan University, Taiwan)

PP-66: *Liquid exchange method to fabricate permanently microporous gels based on metal-organic polyhedral*
Zaoming Wang (Kyoto University, Japan)

PP-67: *A Surface Structure Tailored 3D Perovskite Inverse Opals for Efficient and Durable Water Splitting*
Yuan Wang (The University of New South Wales, Australia)

PP-68: *Lipid-Assisted Synthesis of Mg-Containing Calcium-Phosphate with Various Crystalline Phases*

Yu- Sheng Yu (National Taiwan University, Taiwan)

PP-69: *Metal Free Catalysis for CO_2 Conversion using Dendritic Fibrous Nanosilica*
Vivek Polshettiwar (Tata Institute of Fundamental Research (TIFR), India)

PP-70: *A simple and convenient method to fabricate the fuel cell membrane electrode assembly based on decal transfer*
Yuwei Liu (Beihang University, China)

PP-71: *2D-2D heterostructured TiO_2/g-C_3N_4 nanocomposites for enhanced photocatalytic performance under visible irradiation*
Yuanwen Zhang (Queensland University of Technology, Australia)

PP-72: *Non-Noble Metal Mo Cocatalyst for Full-Spectrum-Driven Photocatalytic CO_2 Reforming to CH_4*
Shaolong Huang (Shenzhen University, China)