ICEAN – 2022 – Poster

Presentations

Poster Session I – 17th of October 2022 at 5.45 PM

Poster No	Name of the Presenter	Affiliation	Country	Title of the Presentation
1P-1	Sagar Dhananjay Jadhav	Queensland University of Technology	Australia	Transition of Charge Storage Mechanism in Supercapacitor Materials
1P-2	Vibin Permulsamy	The University of Newcastle	Australia	Metal oxide (MoO2)/bimetallic sulfides (NiS/MoS 2) nanocomposites supported N- doped carbon for the high- performance Li-ion battery
1P-3	Thi Kim Anh Tran	The University of Newcastle	Australia	Copper substituted ordered core- shell mesoporous silica and its excellent antimicrobial properties
1P-4	Mohannad N.H. Al-Malichi	University of South Australia	Australia	Extremely Low Temperature to Exfoliate Functionalized High Structural Integrity Yet Graphene Nanoplatelets
1P-5	Jiaxing Liang	The University of New South Wales	Australia	High volumetric capacity nanoparticle electrodes enabled by nanofluidic fillers
1P-6	Yitong Cao	The University of Newcastle	Australia	Magnetic Iron Oxide Nanoparticles for Microplastic Collection
1P-7	GuyDong Lee	Kyungpook National University	Korea	Metal-organic frameworks with protonated amines: Adsorbent for the removal of benzonitrile and carbazole from model green-diesel derived from microalgae
1P-8	Md. Mahmudul Hassan Mondol	Kyungpook National University	Korea	TiN@nitrogen-enriched porous carbon derived from metal– organicframeworks and melamine: a remarkable oxidative catalyst to remove indoles from fuel
1P-9	Shuo Chen	The University of Tokyo	Japan	Fluorous Nanochannels Enabling Both Ultrafast Water Permeation and High Salt Reflection
1P-10	Thomas Douglas Small	The University of Adelaide	Australia	Visible-Light Photocatalysis
1P-11	Aathira Mankuzhy Sadanandan	The University of Newcastle	Australia	Carbon moiety incorporated mesoporous C 3 N 5 with highly enhanced photocatalytic hydrogen evolution activity
1P-12	Jiwan Kim	Kyonggi University	Korea	Unconventional quantum dot- based electroluminescence

				devices employing TiO2
1P-13	Cheng Wang	University of Science and Technology of China	China	nanoparticles Enhancing CO2 Electroreduction Selectivity toward Multicarbon Products via Tuning the Local H 2 O/CO 2 Molar Ratio
1P-14	Sharidya Rahman	The Australian National University	Australia	Giant Photoluminescence Enhancement and Resonant Charge Transfer in Atomically Thin Two dimensional Cr2Ge2Te6/WS2
1P-15	Xueqian Sun	The Australian National University	Australia	Modulated interlayer charge transfer dynamics in a monolayer TMD/metal junction
1P-16	Yogesh Kumar	RMIT University	Australia	Realization of π Berry phase and SdH oscillations in Bi single crystal
1P-17	Prashant Kumar	RMIT University	Australia	Synthesis and investigation of structural, optical, magnetic and spin resonance properties of rGO @ Co0.8Zn0.2Fe2O4 magnetic nanocomposites
1P-18	Syamak Farajikhah	The University of Sydney	Australia	Flexible sensors based on conductive tough hydrogels
1P-19	Prince Sharma	RMIT University	Australia	Flexible Narrowband Transmissive Terahertz Filter on COC
1P-20	Chechia Hu	National Taiwan University of Science and Technology	Taiwan	Modification of g-C 3 N 4 through hydroxylation and Na intercalation for photocatalytic formaldehyde removal
1P-21	Sujanya Maria Ruban	The University of Newcastle	Australia	Mesoporous Carbon Nitrides with Tunable Morphology, Nitrogen Contents and Structures for Base Catalysed Transformations
1P-22	Abdulrahman Alhaidar	Queensland University of Technology	Australia	High-throughput Computational Screening of Two-dimensional Materials for Photocatalytic Water Splitting under Visible Light
1P-23	Ashakiran Maibam	RMIT University,	Australia	Sustainable ammonia production on single site catalyst anchored 2D materials
1P-24	Lakshmi Daggubati	The University of Newcastle	Australia	Micronanoplastic release and leaching of toxic metal(loid)s from recycled plastic products
1P-25	Sania Afrose	The University of Newcastle	Australia	Uptake and Accumulation of Polystyrene Nanoplastics in Australian Seabass
1P-26	Satoshi Kuretani	Tokyo Institute of Technology	Japan	Particle Size Control of Polyimide Nano-Particles by Precipitation Polymerization and their Size Evaluation by Small Angle X-ray Scattering

Poster Session II – 19th of October 2022 at 6.15 pm					
Poster No	Name of the Presenter	Affiliation	Country	Title of the Presentation	
2P-1	Gopa Sardar	Indian Institute of Technology	India	Reduced Singlet-Triplet Annihilation for Low Threshold Amplified Spontaneous Emission from Blue Polyfluorene Electroluminescent Organic Semiconductor	
2P-2	Ajanya Maria Ruban	The University of Newcastle	Australia	High Surface Area Porous Activated Biocarbons from Almond Skin for Supercapacitor and Low- and High- pressure CO2 Adsorption	
2P-3	Rohan Bahadur	The University of Newcastle	Australia	Ordered mesoporous graphene-BCN hybrid with high surface area for energy storage applications	
2P-4	Bhavya Jitendrabahi Mod	The University of Newcastle	Australia	Sugarcane waste-derived biochar functionalized with silica nanoparticles to mitigate nutritional and structural deficiencies in sugarcane cultivated soils	
2P-5	Brody McDonald	RMIT University	Australia	Peptide self-assembled Nanostructures serving as templates for Noble Metal composite materials	
2P-6	Marzia Cavallo	The University of New South Wales	Australia	Metal complexes as precursors for the controlled seeded growth of Co branched nanoparticles	
2P-7	Muhammad Adeel Zafar	James Cook University	Australia	Synthesis of freestanding nitrogen- doped graphene oxide for environmental applications	
2P-8	Shahrzad Rezvani- Baboli	Macquarie University	Australia	Controlling the Brightness of Ruby Nanoparticles for Biological Applications	
2P-9	Anh Son Hoang	The University of Newcastle	Australia	Phosphate removal from influents by layered double hydroxide and its slow-release phosphate fertilizer potential	
2P-10	Prince Sharma	RMIT	Australia	Low Temperature Charge Carrier and Phonon Dynamics Exploration of Topological Insulator	
2P-11	Kamilla Sivunova	The University of Newcastle	Australia	Novel nanoparticles fabrication from photovoltaic materials (PDCBT:ITIC)	
2P-12	Jolitta Sheri John Britto	The University of Newcastle	Australia	Synthesis, characterization, and antibacterial assessment of Cu- doped mesoporous N-rich Carbon Nitrides	
2P-13	M.Fairuz B. Jamaluddin	The University of Newcastle	Australia	Proteomic characterization of acellular matrix of human uterine fibroids	
2P-14	Makoto Yamazaki	Yokohama National University	Japan	Build-up Fabrication of Biomaterials from Polysaccharide Polyelectrolyte Complex Particles	
2P-15	Priscila Cardoso	RMIT University, Melbourne	Australia	Rational design of potent ultrashort antimicrobial peptides with	

				programmable assembly into
				nanostructured hydrogels
2P-16		The University of		Biomedical Application of Nitrogen
	Vaishwik Patel	Newcastle	Australia	and Copper doped Mesoporous
				Carbon as a Peroxidase Mimetic
		Chungnam		Toward improved low-temperature
2P-17	Yen Hai Thi Tran	National	Korea	performance of High-Energy Lithium-
		University	Koreu	ion Batteries via Stabilization of
				High–Voltage Interface
2P-18	Joshua Zheyan Soo	The Australian National University	Australia	Novel Substrate-Agnostic Approach
				in Preparing High-Performance
				Regenerative Water Splitting
		oniversity		(Photo)electrodes
	Kevin Mariandry	The University of New South Wales	Australia	Understanding the role of Ag on Ag-
2P-19				core Pt-partial shell nanoparticle for
21 15				alkaline and acid hydrogen evolution
				reaction.
				Activated Graphene Nanoplatelets
2P-20	Mohammed Fawaz	The University of	Australia	Decorated with Carbon Nitrides for
21 20	Palakkat Alihassan	Newcastle	Australia	Efficient Electrocatalytic Oxygen
				Reduction Reaction
				Controlling Geometric Site of
2P-21	Zeno Rizqi	The University of	Australia	Branched Cobalt Phosphide for
21-21	Ramadhan	New South Wales	Australia	Highly Active Oxygen Evolution
				Reaction
	Zhipeng Ma	The University of Newcastle		Insights into the electrochemical
2P-22			Australia	reduction of CO2 on vertical
				graphene-supported Cu catalysts
	Niall L. Malone	National Isotope		Synthesis of transition metal carbide
2P-23		Centre, GNS Science	New Zealand	nano-catalytic surfaces for hydrogen
21 25				evolution reaction by ion
		Selence		implantation
	Azrhy Nichol			Heterogeneous Growth of Platinum
2P-24		The University of New South Wales	Australia	Islands on Copper Nanoparticles to
21 24				Understand the Hydrogen Evolution
				Reaction Mechanism
	Arun Vijay Baskar		Australia	Facile synthesis of copper/copper
2P-25		The University of Newcastle		oxide encapsulated 3D mesoporous
21 25				C60 and their energy storage
				application
		The University of		Rod vs Sphere- A Comparative Study
2P-26	Shan Mohanan	Newcastle	Australia	of Particle Shape Effect in Nano Drug
		Newcastle		Delivery
2P-27	Nithinraj Panangattu Dharmarajan	The University of		Heteroatom doped supramolecular
		Newcastle	Australia	precursor derived carbon nitride for
		Newcastle		photocatalytic water splitting
2P-28	Guntae Lim	Chungnam National University	Korea	Electrochemical Studies of New
				Polymer-encapsulated Sulfur
				Cathode Active Material for a
				Lithium-Sulfur Battery
	Guntae Lim	Chungnam National University	Korea	Correlation between Interfacial
2P-29				Reaction Behavior and Performance
28-29				of Silicon Anode Material for
				Lithium-ion Batteries