

The DGIST (ESE) – NUS (ChBE) Workshop

Date: 18th-19th Dec. 2023 **Locations:** 9 Engineering Drive 1, Singapore 117575 (18th Dec.) 1 Engineering Drive 3, Blk E8, Singapore 117580 (19th Dec.)

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Sunday 17 th Dec	Arrival in Singapore	
Monday 18 th Dec	Engineering Auditorium; EA 9 Engineering Drive 1, Singapore 117575	
9:00-9:20	Prof. Saif Khan (HOD)	Welcome Remark & Introduction of ChBE
9:20-9:45	Dr. Yamin Zhang**	Battery-Powered, Light-Controlled, Bioresorbable Platforms for Programmed Drug Delivery (via ZOOM)
9:45-10:10	Prof. Hongkyung Lee	Magnetically Guided Diagnosis and Therapy for Uniform Current Distribution Inside Lithium Batteries
10:10-10:35	Dr. Yi Hou	Unlocking the Potential of Perovskite Solar Cells: from Single-Junction to Tandem
10:35-11:00	Coffee Break	
11:00-11:25	Prof. Jiwoong Yang	Controlled Synthesis of Colloidal Quantum Dots for Light-Emitting and Photodetecting Devices
11:25-11:50	Dr. Andrew B. Wong	Strategies for Improving the Microenvironment in Electrochemical CO ₂ Reduction
11:50-12:15	Dr. Dae-Hyun Nam	Nano-Metallurgy based Catalyst Design for Selective CO ₂ Electroreduction to Multi- Carbon Products
12:15-2:00	Lunch	Open to workshop delegates only
14:00-14:25	Dr. Lei Wang	Electrochemical conversion of CO ₂ to Fuels and Chemicals
14:25-14:50	Dr. Chanyeon Kim	Engineering of Microenvironments near Cu Catalyst for Electrochemical CO ₂ Reduction
14:50-15:15	Dr. Yanwei Lum	Understanding the mechanisms of electrocatalytic CO ₂ reduction
15:15-15:40	Prof. Ju-Hyuck Lee	Engineering of Functional Polymers for Triboelectric Nanogenerators
15:40-16:00	Coffee Break	<u> </u>

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16:00-16:25	Dr. Sergey Kozlov	The effects of metal-oxide charge transfer in electrochemistry
16:25-16:50	Prof. Chiyoung Park	Supramolecular Hybrid Materials for Sustainable Applications through Reciprocal Association of Multi-components
17:15-17:25		Concluding Remark
18:30	Dinner	