

Singapore-China Joint Symposium on AI & Sustainability

Day 2 Program: Young Scientists Forum

SESSION 1					
Venue: LT5	Venue: LT6	Venue: LT7	Venue: LT8	Venue: LT14	Venue: LT15
Session A: Resource Recovery Session Chair and Co-Chair: Xunchang FEI	Session B: Membrane Technology Session Chair and Co-Chair: Tzyy Haur CHONG & Tian LI	Session C: Computing, Data Science & AI Session Chair and Co-Chair: Rui TAN	Session D: Biotechnology & Bioprocesses Session Chair and Co-Chair: TBC	Session E: Environmental AI & Modelling Session Chair and Co-Chair: Xunyuan YIN & Zhe WU	Session F: Environmental Chemistry & Materials Session Chair and Co-Chair: TBC
Keynote Lecture A1 (09:00 to 09:20) <i>Reclaim, Restore, Reimagine: Circular Waste Solutions in Action</i> Grzegorz LISAK Nanyang Technological University, SG	Keynote Lecture B1 (09:00 to 09:20) <i>Improving Efficiency in Seawater Reverse Osmosis Desalination (SWRO) Process</i> Tzyy Haur CHONG Nanyang Technological University, SG	Keynote Lecture C1 (09:00 to 09:35) <i>Optimization and Acceleration of Large Generative Model Development</i> Tianwei ZHANG Nanyang Technological University, SG	Keynote Lecture D1 (09:00 to 09:20) <i>A Sustainable Bio-platform for High Quality Microbial Protein Production</i> Yan ZHOU Nanyang Technological University, SG	Keynote Lecture E1 (09:00 to 09:20) <i>Spatial-temporal Adaptive Planning of Flood Managed Aquifer Recharge Guided by Deep Reinforcement Learning</i> Xiaogang HE National University of Singapore, SG	Keynote Lecture F1 (09:00 to 09:20) <i>Intercalation in 2D TMDs and Membranes Fabrication for Water Purification</i> Zhiyuan ZENG City University of Hong Kong, CN
Keynote Lecture A2 (09:20 to 09:40) <i>Valorising Waste for Aquaculture Feed in Singapore</i> Yu De CHAO Singapore Food Agency, SG	Invited Lecture B2 (09:20 to 09:35) <i>Enhanced Ammonium Rejection in Thin-Film Composite Osmotic Membranes: Performance and Mechanisms</i> Xian BAO Harbin Institute of Technology, CN	Oral C2 (09:35 to 09:50) <i>Generative AI for Health</i> Hung Manh PHAM Singapore Management University, SG	Oral D2 (09:20 to 09:35) <i>Food Waste Valorization via Fermentation</i> Huang MAO Tennessee Polytechnic, SG	Oral E2 (09:20 to 09:35) <i>A mechanism-data co-driven hybrid modeling framework for WWTPs to achieve reliable simulation at system-level</i> YI PAN Zhejiang University, CN	Invited Lecture F2 (09:20 to 09:35) <i>Developing high-pressure pressure-retarded osmosis membranes for renewable osmotic energy harvesting: the critical role of membrane material design and structure optimization</i> Qianhong SHE Nanyang Technological University, SG
Oral A3 (09:40 to 09:55) <i>Turning Waste into Resource: Biochar Solutions for Sustainable Agriculture</i> Xin YANG Nanyang Technological University, SG	Oral B3 (09:35 to 09:50) <i>Membrane Structure-dependent Water and Ion Transport in Osmotic Electrodialysis</i> Hong LU Nanyang Technological University, SG		Oral D3 (09:35 to 09:50) <i>Medium-chain fatty acid biosynthesis under high ammonia stress: Mechanisms and process optimization</i> Liang ZHANG Sun Yat-Sen University, CN	Oral E3 (09:35 to 09:50) <i>Spatiotemporal Patterns of Urban Flooding in Singapore and Detection via AI-Based Image Analysis</i> Jingyu WANG National Institute of Education, SG	Invited Lecture F3 (09:35 to 09:50) <i>Sustainable Membranes for a Circular Membrane Industry</i> Bofan LI Agency for Science, Technology, and Research (A*STAR), SG
Oral A4 (09:55 to 10:10) <i>Chicken Manure Ash as a Bioresource-based Material for Efficient Carbon Dioxide Capture</i> Jiahui BU Nanyang Technological University, SG	Invited Lecture B4 (09:50 to 10:05) <i>Modeling Dynamics of NF/RO Membrane Fouling with Collision Attachment Approach</i> Tian LI Tongji University, CN	Oral C3 (09:50 to 10:05) <i>Decentralized GPU Banks: Web3-Orchestrated AI Systems for Sustainability</i> Lishan JIANG National University of Singapore, SG	Oral D4 (09:50 to 10:05) <i>Revealing Cryptic Microbial Carbon/Nitrogen Pathways: A Novel Strategy for Sustainable Greenhouse Gas Mitigation and Resource Recovery</i> Chen CAI University of Science and Technology of China, CN	Oral E4 (09:50 to 10:05) <i>Transfer learning in modeling and predictive control of chemical processes</i> Ming XIAO National University of Singapore, SG	Invited Lecture F4 (09:50 to 10:05) <i>Distributed direct air capture by carbon nanofiber air filters</i> Ronghui WU Nanyang Technological University, SG
Oral A5 (10:10 to 10:25) <i>Circular manufacturing implementation, planning and control</i> Marvin Carl MAY Nanyang Technological University, SG	Oral B5 (10:05 to 10:20) <i>Double-Macrocycles Based COF Membranes for Seawater Lithium Extraction</i> Xinkun MA Nanyang Technological University, SG	Oral C4 (10:05 to 10:20) <i>GreenIntelCPAI: AI-Enabled Spatiotemporal Scheduling for Energy-Efficient Computing Power Networks</i> Wen WEN Beijing University of Posts and Telecommunications, CN	Oral D5 (10:05 to 10:20) <i>Carbon Emission of Straw-combined Heat and Power Generation</i> Tingting QIAN Shandong Normal University, CN	Oral E5 (10:05 to 10:20) <i>A Novel Perspective on Process Monitoring: Nonlinear Causal Mapping Aggregation for Key Performance Indicator</i> Haoqian WANG Beijing University of Chemical Technology, CN	Invited Lecture F5 (10:05 to 10:20) <i>Smart imaging for smart separation: electron microscopy and machine learning in membrane design</i> Prashant KUMAR Nanyang Technological University, SG
MORNING TEA BREAK (10:20 to 10:40)					
SESSION 2					
Venue: LT5	Venue: LT6	Venue: LT7	Venue: LT8	Venue: LT14	Venue: LT15
Session A: Resource Recovery Session Chair and Co-Chair: Grzegorz LISAK	Session B: Membrane Technology Session Chair and Co-Chair: Gongping LIU & Mao TIAN	Session C: Computing, Data Science & AI Session Chair and Co-Chair: Rui TAN	Session D: Biotechnology & Bioprocesses Session Chair and Co-Chair: TBC	Session E: Environmental AI & Modelling Session Chair and Co-Chair: Xunyuan YIN & Zhe WU	Session F: Environmental Chemistry & Materials Session Chair and Co-Chair: TBC
Keynote Lecture A6 (10:40 to 11:00) <i>AI Technology for Smart Waste-to-Energy System</i> Qinxing HUANG Zhejiang University, CN	Keynote Lecture B6 (10:40 to 11:00) <i>Machine Learning Accelerates High Throughput Design of MOF-Based Membranes for Molecular Separation</i> Gongping LIU Nanyang Tech University, CN	Keynote Lecture C5 (10:40 to 11:15) <i>AI-Powered Robotic Systems for Sustainable Marine Ecosystem Monitoring</i> Mufika MEGHJANI Singapore University of Technology & Design, SG	Keynote Lecture D6 (10:40 to 11:00) <i>Biological sulfur disproportionation enlightens new technology development for sustainable wastewater treatment</i> Feng JIANG Sun Yat-Sen University, CN	Keynote Lecture E6 (10:40 to 11:00) <i>Machine learning-enabled Koopman modeling and convex optimization-based predictive control of nonlinear systems</i> Xunyuan YIN Nanyang Technological University, SG	Keynote Lecture F6 (10:40 to 11:00) <i>Membranes for Carbon Capture: From Dense Polymers to Porous Structures</i> Sui ZHANG National University of Singapore, SG
Keynote Lecture A7 (11:00 to 11:20) <i>Sustainable Engineering of Functional Carbon Nanotubes from Waste Using an Energy-Efficient Dual-Stage Reactor</i> Wen Da OH Universiti Sains Malaysia, MY	Invited Lecture B7 (11:00 to 11:15) <i>Precise Construction of Hydrogel Interlayers for Enhanced Thin-Film Composite Forward Osmosis Membranes</i> Mao TIAN Northwestern Polytechnical University, X'an, CN	Oral C6 (11:15 to 11:30) <i>Physics and Knowledge-based Cognitive Digital Twin for Advanced Battery Analytics</i> Wei ZHANG Singapore Institute of Technology, SG	Oral D7 (11:00 to 11:15) <i>Sustainable synthetic biology for carbon-negative applications</i> Waiming TU Nanyang Technological University, SG	Oral E7 (11:00 to 11:15) <i>Quantitative Analysis of Electrostatic Interactions in Nanofiltration for Trace Organic Contaminants Removal</i> Zhiyi XIA Zhejiang University, CN	Invited Lecture F7 (11:00 to 11:15) <i>Aligned macrocycle pores in ultrathin films for accurate molecular sieving</i> Zhiwei JIANG Nanyang Technological University, SG
Oral A8 (11:20 to 11:35) <i>Catalytic Conversion of Municipal Sewage Sludge and Animal Manure into Biogenic Multi-Walled Carbon Nanotubes and Hydrogen via Pyrolysis-CVD: Analysis of Catalyst Performance</i> Jintao LU Nanyang Technological University, SG	Oral B8 (11:15 to 11:30) <i>Rotary-actuated Hollow Fiber Membrane Contactor for Bubble-free Bioreactor Aeration</i> Dankel NG Yen Fan Nanyang Technological University, SG		Oral D8 (11:15 to 11:30) <i>Harnessing Methanotroph-Microalgae Synergy for Carbon-Neutral Biogas Purification and High-Value Biomass Production</i> Yuanxi SONG University of Science and Technology of China, CN	Oral E8 (11:15 to 11:30) <i>Machine learning forecasts of global daily CO2 emissions in near-real-time</i> Zhu DENG The University of Hong Kong, CN	Invited Lecture F8 (11:15 to 11:30) <i>Membrane Solutions for Low-Energy and Sustainable Resource Recovery</i> Zhe YANG The University of Queensland, AU
Oral A9 (11:35 to 11:50) <i>Resource recovery of Al and P from gasification sewage sludge slag via a multi-step wet-extraction system</i> MZBM AMRAD Nanyang Technological University, SG	Oral B9 (11:30 to 11:45) <i>Machine learning in GO membrane design: stability mechanisms and water ballistic transport</i> Quan LU Anhui University of Science and Technology, CN	Oral C7 (11:30 to 11:45) <i>Adversarially Trained Dynamic Ensemble: A Moving Target Defense Strategy for Robust Semantic Segmentation in Autonomous Vehicles</i> Yanghui MO Singapore Institute of Technology, SG	Oral D9 (11:30 to 11:45) <i>Mining high-value bioproducts from sludge: Potential for MCFAs production without exogenous electron donors</i> Lei LI Nanyang Technological University, SG	Oral E9 (11:30 to 11:45) <i>Fast Machine Learning-based Model Predictive Control of Nonlinear Processes</i> Wenlong WANG National University of Singapore, SG	Oral F9 (11:30 to 11:45) <i>Lactic-Acid-based Deep Eutectic Solvent for Sustainable Recovery of Critical Metals from Spent Lithium-ion Batteries under Mild Conditions</i> Ziwen YUAN Nanyang Technological University, SG
Oral A10 (11:50 to 12:05) <i>Reclaimed seawater discharge: An electrolytic approach to brine utilization and treatment</i> Hui Han TU Nanyang Technological University, SG	Oral B10 (11:45 to 12:00) <i>2-inch PAN/HMO Nanoforous Membrane Scaffold Module for Lithium Recovery from Simulate SWRO Brine</i> Yajing LIANG Nanyang Technological University, SG	Oral C8 (11:45 to 12:00) <i>Data-Driven Control for Three-Phase AC-DC Power Converters Modulated by Switched Affine Systems</i> Xiaozeng XU Shandong University of Science and Technology, CN	Oral D10 (11:45 to 12:00) <i>Reduction of refractory Meillard reaction products by Fe³⁺ during thermal hydrolysis pretreatment and enhanced sludge biodegradability</i> Yikun GENG Nanyang Technological University, SG	Oral E10 (11:45 to 12:00) <i>Data-Driven Moving Horizon Estimation Using Machine Learning: Application to Membrane Bioreactor Processes</i> Xiaojie LI Nanyang Technological University, SG	Oral F10 (11:45 to 12:00) <i>High-Performance Lithium Extraction from Salt Lakes with designing nano-materials and device</i> Guangqiang MA Xi'an University of Architecture and Technology, CN
LUNCH & POSTER SESSION (12:00 to 14:00)					

SESSION 3					
Venue: LT5	Venue: LT6	Venue: LT7	Venue: LT8	Venue: LT14	Venue: LT15
Session A: Resource Recovery Session Chair and Co-Chair: Qunxing HUANG	Session B: Membrane Technology Session Chair and Co-Chair: Haijing LIN & Yumeng ZHAO	Session C: Computing, Data Science & AI Session Chair and Co-Chair: Rui TAN	Session D: Biotechnology & Bioprocesses Session Chair and Co-Chair: TBC	Session E: Environmental AI & Modelling Session Chair and Co-Chair: Xunyuan YIN and Zhe WU	Session F: Environmental Chemistry & Materials Session Chair and Co-Chair: TBC
Keynote Lecture A11 (14:00 to 14:20) <i>Status, Global Trends and Perspectives for Chemical Recycling</i> M. GRAEBNER TU Bergakademie Freiberg, Fraunhofer Institute for Ceramic Technologies and System ICTS, DE	Keynote Lecture B11 (14:00 to 14:20) <i>Sabater principle on highly CO₂-philic yet rejective membranes for hydrogen purification</i> Haijing LIN University at Buffalo, USA	Keynote Lecture C9 (14:00 to 14:35) <i>Efficient Multi-agent Path Planning via Graph Potential Field</i> Ivor W. TSANG A*STAR Centre for Frontier AI Research, SG	Keynote Lecture D11 (14:00 to 14:20) <i>AI for Toxicology - An Case Study on Deep Learning-enabled Mesoporemetric Analysis (DLMA) for High Throughput Toxicity Screening</i> Sipe LIN Tongji University, CN	Keynote Lecture E11 (14:00 to 14:20) <i>Robust BFMHE and Robust Data-driven MHE for Lithium-ion Battery</i> Xiaodong XU Central South University, CN	Keynote Lecture F11 (14:00 to 14:20) <i>Food as a source of disinfection byproducts: Detection, formation, and control in processing and cooking</i> Yang PAN Nanjing University, CN
Oral A12 (14:20 to 14:35) <i>Development and Application of High-Performance Biochar Catalysts for Waste Pyrolysis-Steam Reforming</i> Jiali GUO Nanyang Technological University, SG	Invited Lecture B12 (14:20 to 14:35) <i>Biomimetic Catalytic Membrane Enables Sustainable Water Purification Through Direct Electron-Transfer Pathway</i> Yumeng ZHAO Hartm Institute of Technology, CN	Oral C10 (14:35 to 14:50) <i>Towards Fair Concurrent Training of Privacy Preserving AI</i> Marie SEW Singapore University of Technology & Design, SG	Oral D12 (14:20 to 14:35) TBC	Keynote Lecture E12 (14:20 to 14:40) <i>Machine Learning in Model Predictive Control of Chemical Processes</i> Zhe WU National University of Singapore, SG	Invited Lecture F12 (14:20 to 14:35) <i>Powering chemicals production with renewable electricity</i> Wan Ru LEOW Nanyang Technological University, SG
Oral A13 (14:35 to 14:50) <i>Incorporating CO2 capture-utilization with municipal solid waste upcycling through isothermal sorbent looping-reforming</i> Gulcal LIU Nanyang Technological University, SG	Oral B13 (14:35 to 14:50) <i>Lithium recovery from seawater desalination brines using ion-sieve electrosup nanofibrous membranes: the role of nanofiber design</i> Naem NADZRI Nanyang Technological University, SG		Oral D13 (14:35 to 14:50) <i>Elucidating the EPS-Biofouling Nexus in Electrochemical Anaerobic Membrane Bioreactor via Explainable AI Approaches</i> Changlin NU Nanyang Technological University, SG	Oral E13 (14:40 to 14:55) <i>Large Language Model-Assisted Machine Learning for the Design and Validation of Deep Eutectic Solvent-Porous Organic Cage Membranes in CO₂/N₂ Separation</i> Jie ZHAO Kunming University of Science and Technology, CN	Invited Lecture F13 (14:35 to 14:50) <i>Hydrogen embrittlement in steels – a roadblock against sustainable hydrogen economy</i> Eason CHEN Nanyang Technological University, SG
Oral A14 (14:50 to 15:05) <i>Carbon black dispersion in conductive cementitious composites: Mechanistic insights into the interrelationship between dispersion behaviour, electrical properties and microstructures</i> Kerwin Matthew MANURUNG Nanyang Technological University, SG	Oral B14 (14:50 to 15:05) <i>Polyphenylsulfone-Based Membranes for Gas Separation</i> Fan FENG National University of Singapore, SG		Oral D14 (14:50 to 15:05) <i>Machine Learning Optimization of Waste Salt Pyrolysis: Predicting Organic Pollutant Removal and Mass Loss</i> Ran ZHOU Nanyang Technological University, SG	Oral E14 (14:55 to 15:10) <i>Distributed Fault-Tolerant Game-Theoretic Control for Sustainable Multi-Agent Systems with Actuator Faults</i> Wenjing HOU Beijing University of Chemical Technology, CN	Oral F14 (14:50 to 15:05) <i>Artificial Intelligence-Assisted Online Sensor for Environmental Monitoring</i> Xuanhao LIN National University of Singapore, SG
Oral A15 (15:05 to 15:20) <i>Utilizing Polyethylene Terephthalate (PET) as a Sustainable Additive in Cementitious Mortar Composites: Plastic Modification and binary additive-cement system</i> Zijian WANG Nanyang Technological University, SG	Oral B15 (15:05 to 15:20) <i>Chemically Robust Hollow Fiber Thin-Film Composite Membranes Based on Polyurea Selective Layers for Nanofiltration under Extreme pH Conditions</i> Qiang XUE Nanyang Technological University, SG	Oral C12 (15:05 to 15:20) <i>Slim-SG: Thought Pruning for Efficient Scaling with Self-Consistency</i> Colin HONG Nanyang Technological University, SG	Oral D15 (15:05 to 15:20) <i>Towards Explainable Hybrid Model for Multi-Hour Ahead Wastewater Effluent Prediction</i> Yijie WANG Nanyang Technological University, SG	Oral E15 (15:10 to 15:25) <i>Evaluating and Advancing Large Language Models for Nanofiltration Membrane Knowledge Tasks</i> Xinchen XIANG Zhejiang University, CN	Oral F15 (15:05 to 15:20) <i>Temperature effects on ozonation: Impacts on kinetics of organic amines abatement, bromate formation and disinfection</i> Zhuangsong HUANG Hartm Institute of Technology, CN
AFTERNOON TEA BREAK (15:20 to 15:40)					
SESSION 4					
Venue: LT5	Venue: LT6	Venue: LT7	Venue: LT8	Venue: LT14	Venue: LT15
Session A: Resource Recovery Session Chair and Co-Chair: Wen Da OH	Session B: Membrane Technology Session Chair and Co-Chair: Xiaoying ZHU & Lei YAO	Session C: Computing, Data Science & AI Session Chair and Co-Chair: Rui TAN	Session D: Biotechnology & Bioprocesses Session Chair and Co-Chair: TBC	Session E: Environmental AI & Modelling Session Chair and Co-Chair: Xunyuan YIN and Zhe WU	Session F: Environmental Chemistry & Materials Session Chair and Co-Chair: TBC
Invited Lecture A16 (15:40 to 16:00) <i>"Waste-to-Products" for the Sustainability Transformation of Megacities: Impacts of Public Knowledge & Perception on Chemical Recycling Deployments in Singapore</i> Roh Pin LEE Brandenburg University of Technology, DE	Keynote Lecture B16 (15:40 to 16:00) <i>Interface-Engineered Functional Membranes for Emerging Pollutant Removal</i> Xiaoying ZHU Zhejiang University, CN	Keynote Lecture C13 (15:40 to 16:15) <i>Being Small in the Era of Large Models</i> Anthony K. H. TUNG National University of Singapore, SG	Keynote Lecture D16 (15:40 to 16:00) <i>Emerging Pollutants: Antibiotic Resistance Genes – Transmission in the Environment</i> Xiaohu YIN Nanyang Technological University, SG	Keynote Lecture E16 (15:40 to 16:00) <i>AAS for Sustainable Innovation: Building High-Quality Datasets for Coal-Based New Materials</i> Yang DONG National Institute of Clean-and-Low-Carbon Energy, CN	Keynote Lecture F16 (15:40 to 16:00) <i>Artificially Confined Sub-Nanoscale Channels for Molecular Separation</i> Jie SHEN Nanyang Technological University, SG
Oral A17 (16:00 to 16:15) <i>Inequality in Air Pollution-Attributable Mortality by Income Level between and within Countries</i> Hongfang ZHANG University of Shanghai for Science and Technology, CN	Invited Lecture B17 (16:00 to 16:15) <i>Machine-learning-guided design and performance prediction of membrane processes for PFAS removal</i> Lei YAO Wuhan Institute of Technology, CN	Oral C14 (16:15 to 16:30) <i>D7MoS: Delving into Diverse Tiny-Model Selection on Microcontrollers</i> Xiao MA Singapore Management University, SG	Oral D17 (16:00 to 16:15) <i>Simultaneous Vanadium(V) Removal and Toxicity Response Mechanisms in Settleable Algae Systems</i> Siling REN Nanyang Technological University, SG	Oral E17 (16:00 to 16:15) <i>Mamba-neural ordinary equation Koopman approach for modeling and optimal control of membrane water treatment system</i> Zhaoyang LI Nanyang Technological University, SG	Oral F17 (16:00 to 16:15) <i>Noncovalent Complex Modulated Fabrication of COF Membrane for Organic Solvent Nanofiltration</i> Baojun WANG Joint School of NUS and TJU, CN
Oral A18 (16:15 to 16:30) <i>Green Synthesis of Binder-Free Waste-Derived adsorbent for H2S Removal at Ambient Temperature</i> Wenying LI Shanghai University, CN, Nanyang Technological University, SG	Oral B18 (16:15 to 16:30) <i>Quantifying the potential of high-performance RO membranes for seawater and hypersaline brine desalination: from module-scale modeling to experimental evaluation</i> Yu Jie LIM Nanyang Technological University, SG		Oral D18 (16:15 to 16:30) <i>The plastisphere: A hazard or solution?</i> Sakcham SAROLYA Nanyang Technological University, SG	Oral E18 (16:15 to 16:30) <i>Data-Efficient Modelling of Integrated Chemical Plants with Recycles using a Graph Convolutional LSTM Approach</i> Yuanli WU National University of Singapore, SG	Oral F18 (16:15 to 16:30) <i>When polymers meet 2D materials: Innovations in nanochannel membrane design</i> Hao ZHANG The University of Queensland, AU
Oral A19 (16:30 to 16:45) <i>Innovative MOF-Based Membrane Technologies for Metal Recovery from E-Waste</i> Bo HAN Nanyang Technological University, SG	Oral B19 (16:30 to 16:45) <i>Effects of 3D Printed Support Pure Size: Purity and Geometry on Performance Efficiency of Vacuum Membrane Distillation</i> Bao Lam NGUYEN Nanyang Technological University, SG		Oral D19 (16:30 to 16:45) <i>A Synergistic Strategy of NH3 Stripping and HNO4 Pathway for Enhanced Nitrogen Removal and Resource Recovery from Ammoniacally Treated Leachate</i> Facai AN Beijing Forest University, CN	Oral E19 (16:30 to 16:45) <i>Mechanism Informed Machine Learning for Predicting Water Treatment Performance: Application to Membrane Fouling</i> Matteo TAGLIAVINI Nanyang Technological University, SG	Oral F19 (16:30 to 16:45) <i>Cellular toxicities of disinfection byproducts of 6PPD – a comparison between UV/NaHClO disinfection and conventional disinfection methods</i> Caike LI Nanyang Technological University, SG
Oral A20 (16:45 to 17:00) <i>AI-Enhanced Sorting and Tailored Processing for High-Yield Recovery of Critical Metals from Complex E-Waste</i> Dong XIA Nanyang Technological University, SG	Oral B20 (16:45 to 17:00) <i>Centrifugal Reverse Osmosis (CRO) for energy-efficient desalination: Modelling and Validation</i> Vinh Han TRUONG Nanyang Technological University, SG	Oral C16 (16:45 to 17:00) <i>LR-Auth: Towards Practical Implementation of Implicit User Authentication on Earbuds</i> Changshuo HU Singapore Management University, SG	Oral D20 (16:45 to 17:00) <i>Artificial electron snorkels for reducing methane emission decrease microbial community complexity but increase its stability in lake sediment</i> Nan SHEN Nanjing Normal University, CN	Oral E20 (16:45 to 17:00) <i>Event-Triggered Data-Driven Control of Multi-Agent Systems under Sequential Scaling Attacks</i> Haoxi MA Beijing University of Chemical Technology, CN	Oral F20 (16:45 to 17:00) <i>Robust and Ordered Ultra-Thin MXene Composite Film for Electromagnetic Shielding and Thermal Camouflage</i> Changan LU South China University of Technology, CN
TRANSFER TO CONFERENCE DINNER (17:00 to 18:00)					
CONFERENCE DINNER & AWARD CEREMONY (18:00 onwards)					