

a

19th Asian Conference on Solid State Ionics

ACSSI-2026

TENTATIVE CONFERENCE PROGRAM

(Draft — subject to change)

 13–16 September 2026

 Montien Hotel Surawong, Bangkok, Thailand
Hosted by Chulalongkorn University

A board meeting of the Asian Society for Solid State Ionics (ASSSI)
will be held in conjunction with this event

Scientific Tracks

Track 1: Energy Conversion Materials and Devices

Track 2: Energy Storage Materials and Devices

Track 3: Iontronics

Track 4: Computational Science

Oral and poster presenters highlighted in amber have not yet paid their registration fee.

Day 1 — Monday, 14 September 2026

Plenary & Common Sessions

Time	Session	Presenter	Affiliation	Abstract ID	Title
08.00-09.00	Registration (Early Morning Break)				
Location: Rajamontien 4 MC: Ravisara Wattana and Chanon Pornrunroj					
09.00-09.40	1. Opening Remarks (Soorathep Kheawhom, Vice President of Chulalongkorn University, Deans of Faculty of Science & Faculty of Engineering) 2. Welcome Remarks (Zhaoyin Wen, B.V.R. Chowdari, Sam Sung Ting) 3. Photo Session				
Session Chair: Zhaoyin Wen					
09.40 - 10.20	Special Lecture	B.V.R. Chowdari	National University of Singapore & Nanyang Technological University, Singapore	—	ASSSI & ACSSI – Past, Present and Future Perspectives
Session Chair: Rojana Pornprasertsuk and Session Co-Chair: Sukwon Cha					
10.20 - 11.00	Plenary 1	Turgut M. Gür	Stanford University, Stanford, United States. Chulalongkorn University, Bangkok, Thailand	157	Tera-Watt and Giga-Ton Challenges for Solid State Ionic Devices
11.00 - 11.40	Plenary 2	Soorathep Kheawhom	Chulalongkorn University, Bangkok, Thailand	186	Beyond Ionic Conductivity: Coordination-Transport-Interface Design Rules for Durable Sodium Batteries
11.40 - 13.30	Lunch (Regular Participants: Montientip Room , Halal Participants: Piman Room)				
16.00 - 18.00	ASSSI Board meeting (An An1 Room) – Hybrid meeting				
16.40 - 18.00	Poster session (Exhibition Hall)				
17.30 - 21.00	Banquet (All Oral and Poster Presenters are invited.) (Rajamontien 1-4) MC: Jitti Kasemchainan and Manaswee Suttipong - Thai performance - Sponsor Session - Karaoke				

Track 1 — Energy Conversion Materials and Devices (Location: Rajamontien 1)

Time	Session	Presenter	Affiliation	Abstract ID	Title
Session Chair: Pei-Chen Su and Session Co-Chair: Sangwook Park					
13.00 - 13.20	Keynote	Tatsumi Ishihara	Kyushu University, Fukuoka, Japan	30	Double Decker Cell Design for High Performance Solid Oxide Reversible Cells
13.20 - 13.40	Keynote	Suk-Won Cha	Seoul National University, Seoul, Korea, Republic of	1	Beyond Performance: Structural Strategies for Robust SOFC Systems
13.40 - 14.00	Keynote	Minfang Han	Tsinghua University, Beijing, China	91	Relation of Performance and Reduction Process of NiO-YSZ Anode in Commercial Solid Oxide Fuel Cell
14.00 - 14.20	Keynote	Chia-Yu Lin	National Cheng Kung University, Tainan City, Taiwan	12	Ampere-Level Single-Pass CO ₂ Electroreduction to CO Using Molecularly Dispersed Phthalocyanine Gas-Diffusion Electrodes
14.20 - 14.40	Oral	Hyuntak Sohn	Seoul National University, Seoul, Republic of Korea	43	Compositional Optimization of Ni–YSZ Nanostructured Anode Functional Layers for Thin-Film Anode-Supported SOFCs
14.40 - 15.00	Afternoon Break				
Session Chair: Tatsumi Ishihara and Session Co-Chair: Sukwon Cha					
15.00 - 15.20	Keynote	Yuji Okuyama	University of Miyazaki, Miyazaki, Japan	15	Power Generation and Impedance Properties of Protonic Ceramic Fuel Cells Using Barium Zirconate Doped with Ytterbium
15.20 - 15.40	Keynote	Zhipeng Li	Northwestern Polytechnical University, Xi'an, Shanxi, China	75	Solid Oxide Fuel Cells: from Materials Research to Industrial Fabrication
15.40 - 16.00	Oral	Maoqing Liu	Tsinghua University, Beijing, China	94	A Thermodynamic-Defect-Wagner Unified Model for Oxygen Permeation in MIEC Membranes

Track 2 — Energy Storage Materials and Devices (Location: Rajamontien 4)

Time	Session	Presenter	Affiliation	Abstract ID	Title
Session Chair: Stefan Adams and Session Co-Chair: Soorathep Kheawhom					
13.00 - 13.20	Keynote	Yogesh Sharma	Indian Institute of Technology, Roorkee, India	164	Modulating the Na ⁺ Conductivity to Na Metal Compatibility by Synergistic Doping in Nasicon-Structured Na ₃ Zr ₂ Si ₂ PO ₁₂ (NZSP)
13.20 - 13.40	Keynote	Amartya Mukhopadhyay	Indian Institute of Technology Bombay, Mumbai, India	22	Development of Sustainable and High Energy Density Na-Ion Batteries: Water-Stable 'Layered' Transition Metal Oxide Based Cathodes and 'Alloying Reaction' Based Anode

Time	Session	Presenter	Affiliation	Abstract ID	Title
13.40 - 14.00	Keynote	Ranjith Thangavel	Indian Institute of Technology Tirupati, Tirupati, India	173	Hybrid Artificial Solid Electrolyte Interphase (SEI) Layer for Dendrite Free Sodium Metal Anodes
14.00 - 14.20	Oral	Zerong Deng	China Three Gorges University, Yichang, China	108	Countering Fluorine Loss in Na ₃ V ₂ (PO ₄) ₂ F ₃ Cathodes: Three Complementary Strategies
14.20 - 14.40	Oral	Sruthy E S	Kerala University of Digital Sciences,Thiruvananthapuram, India	170	Biomass Precursor Guided Engineering of Hard Carbon Anodes for Sodium-Ion Batteries
14.40 - 15.00	Afternoon Break				
Session Chair: Jitti Kasemchainan and Session Co-Chair: Amartya Mukhopadhyay					
15.00 - 15.20	Keynote	Stefan Adams	National University of Singapore, Singapore, Singapore	153	Durable High Energy Solid-State Batteries by Compressible Light Solid Electrolytes
15.20 - 15.40	Keynote	Sang-Young Lee	Yonsei University, Seoul, Korea, Republic of	9	Low-Pressure, Low-Cost All-Solid-State Batteries Enabled by Monomer-In-Salt Polymer Electrolytes
15.40 - 16.00	Invited	Neelam Srivastava	Banaras Hindu University, Varanasi, India	37	The Search for Ideal Hosts for Polymer-In-Salt Electrolytes Synthesis:From Fundamentals to Design Rules

Track 3 — Iontronics (Location: Rajamontien 2)

Time	Session	Presenter	Affiliation	Abstract ID	Title
Session Chair: Natthaphon Raengthon and Session Co-Chair: Hanxing Liu					
13.00 - 13.20	Keynote	Pongsakorn Kanjanaboos	Mahidol University, Nakhon Pathom, Thailand	25	Perovskite Solar Cells and Radiative Cooling Films as Energy Materials for the Era of Energy Crisis
13.20 - 13.40	Keynote	Jongin Hong	Chung-Ang University, Seoul, Republic of Korea; Chulalongkorn University, Bangkok, Thailand	147	Advanced Scanning Probe Microscopy for Ferroelectric and Multiferroic Materials
13.40 - 14.00	Keynote	Hyung Gyu Park	Postech, Pohang, Republic of Korea	119	Synaptic Response of 2D Lamellar Architecture via Regulable Ion Release
14.20 - 14.40	Keynote	Xin Guo	Huazhong University of Science And Technology, Wuhan, China	106	Solid State Ionics for Information, Energy and Environmental Applications
14.40 - 15.00	<i>Afternoon Break</i>				

Time	Session	Presenter	Affiliation	Abstract ID	Title
Session Chair: Ravisara Wattana and Jongin Hong					
15.00 - 15.20	Keynote	Daisuke Mori	Mie University, Tsu, Japan	44	Synthesis, First-Principles Calculations, and Fluorine Ionic Conductivity of Double Perovskite-Type Cs ₂ RbBiF ₆ -Based Fluoride
15.20 - 15.40	Keynote	Wijendra Bandara	University of Peradeniya, Peradeniya, Sri Lanka	142	Fluorine-Free, Ceramic and Organic Binders for High-Performance Electrochemical Double-Layer Supercapacitors
15.40 - 16.00	Keynote	Duangmanee Wongratanaphisan	Materials Science Research Center, Faculty of Science, Chiang Mai University, Chiang Mai, Thailand	197	Passivation Strategies for Sustainable Carbon Electrode-Based Perovskite Solar Cells

Track 4 — Computational Science (Location: Rajamontien 3)

Time	Session	Presenter	Affiliation	Abstract ID	Title
Session Chair: Kota Suzuki and Session Co-Chair: Manaswee Suttipong					
13.00 - 13.20	Keynote	Manfred Martin	RWTH Aachen University, Aachen, Germany	7	The Crucial Role of Defect Interactions for Thermodynamics and Kinetics in Solid State Ionics
13.20 - 13.40	Keynote	Siriporn Jungsuttiwong	Ubon Ratchathani University, Ubon Ratchathani. Thailand	191	Bridging Experiment and Theory for Next-Generation Energy Storage Materials: Insights from DFT
13.40 - 14.00	Keynote	Suwit Suthirakun	Suranaree University of Technology, Nakhon Ratchasima, Thailand	192	Single-Atom Engineering of Mo ₂ B ₂ O ₂ MBene Cathodes for High-Performance Li-S Batteries
14.00 - 14.20	Oral	Makino Keisuke	Nagoya Institute of Technology, Nagoya, Japan	2	Thermodynamic Stability Screening Using Anomaly Detection Based Only on Composition Descriptors
14.20 - 14.40	Oral	Manussada Ratanasak	University of Tsukuba, Tsukuba, Japan	21	Computational Elucidation of Hydrogen-Bonded Superexchange Pathways in a Humidity-Responsive Tristate Magnetic Spin-Cluster Material
14.40 - 15.00	Afternoon Break				
Session Chair: Manfred Martin and Session Co-Chair: Siriporn Jungsuttiwong					
15.00 - 15.20	Keynote	Sayato Terashima	Nagoya Institute of Technology, Nagoya, Japan	10	Analysis of Li-Ion Exchange Reactions at Li ₇ La ₃ Zr ₂ O ₁₂ /LiCoO ₂ Interfaces Using Machine-Learning Potential
15.20 - 15.40	Keynote	Kota Suzuki	Institute of Science Tokyo, Yokohama, Japan	107	Prediction and Experimental Verification: ML-Guided Exploration of Lithium-Ion-Conducting Sulfides

Time	Session	Presenter	Affiliation	Abstract ID	Title
15.40 - 16.00	Oral	Chao Ma	Taiyuan University of Technology, Taiyuan, China	112	Unveiling Interfacial Electron-Ion Coupled Dynamics in Organic-Inorganiccomposite Materials for Fast Air Self-Charging Zinc-Ion Batteries
16.00 - 16.20	Oral	Qiang Bai	Taiyuan University of Technology, Taiyuan, China	20	Crystal Structural Frameworks as a Design Principle for Lithium Super-Ionic Conductors: from Topological Analysis to AI-Driven Molecular Dynamics

Track 5 — ICSMEI 2026 (Location: An An2 Room)

Time	Session	Presenter	Affiliation	Abstract ID	Title
Session Chair: Sirithan Jiemsirilerts					
13.00 - 13.30	Keynote	Huirong Le	Tsinghua University, China	215	Waste Derived Geopolymers - Processing Technologies and Applications
13.30 - 14.00	Keynote	Alexandra Chirescu	INCDPM Bucharest, Romania		Evaluating soil amendment strategies for enhancing climate resilience in triticale agroecosystems using the DNDC model
14.00 - 14.20	Invited	Yeong Yin Fong	Universiti Teknologi PETRONAS	205	Comparison of Silane-Modified and Unmodified SAPO-34/Polyimide Mixed Matrix Membranes for CO ₂ and CH ₄
14.20 - 14.40	Invited	Gina Ghita	INCDPM Bucharest, Romania	206	Assessment of Acetaminophen Contamination in Lakes of the Bucharest Metropolitan Area, Romania, and its Efficient Removal using Chitosan-Based Hybrid
14.40 - 15.00	Afternoon Break				
Session Chair: Norazian Mohamed Noor					
15.00 - 15.20	Invited	Siti Hasnah Kamarudin	Universiti Teknologi MARA, Malaysia	207	Towards Sustainable Polymer Composites: Tensile Performance, Interfacial Morphology, and Biodegradation Behaviour of Bamboo Fiber- Reinforced Recycled Polypropylene
15.20 - 15.35	Oral	Florina-Diana Gheorghe	INCDPM Bucharest, Romania	208	Wastewater Treatment using Hybrid Materials. A Review
15.35 - 15.50	Oral	Wan Nor Raihan Wan Jaafar	Universiti Teknologi MARA, Malaysia	209	Surface Modification of Spent Coffee Ground for Composite Production
15.50 - 16.05	Oral	Monica Matei	INCDPM Bucharest, Romania	210	Absolute Quantification of Antibiotic-Resistance Genes in Municipal Wastewater using Digital PCR
16.05 – 16.20	Oral	Georgeta Tudor	INCDPM Bucharest, Romania	211	Assessing sediment transport in a complex terrain area with sturgeon migration disruption risk using numerical modelling
16.20 – 16.35	Oral	Dora Ioniță	INCDPM Bucharest, Romania	212	Urban recreational lakes in Bucharest as reservoirs of fecal and opportunistic microbial contamination
16.35 – 16.50	Oral	Andra-Gabriela Zorcă	INCDPM Bucharest, Romania	213	Heavy metals removal from the aquatic system using alginate–agar composite with onion peel additives

Time	Session	Presenter	Affiliation	Abstract ID	Title
16.50 – 17.05	Oral	Nurul Izzati Natasya Hussin	Universiti Teknologi MARA, Malaysia	214	Thermal Stability and Antibacterial Activity of Bioplastic Films Incorporating Lemongrass Essential Oil

Day 2 — Tuesday, 15 September 2026

Plenary & Common Sessions

Time	Session	Presenter	Affiliation	Abstract ID	Title
Location: Rajamontien 4 Session Chair: Zhaoyin Wen					
08.00 - 08.30	Special Session	Zhaoyin Wen and ACSSI Board Members	Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai, China	—	<i>New ACSSI Board Announcement</i>
08.30 - 08.50	Memorial Talk in Memory of Prof. Selvasekhara Pandian (Hybrid Event)				
Session Chair: Yogesh Sharma and Session Co-Chair: Orapa Tamwattana					
08.50 - 09.30	Plenary 3	Zhaoyin Wen	Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai, China	56	Solid Electrolytes and Application in Energy Storage Batteries
09.30 - 10.10	Plenary 4	Kisuk Kang	Seoul National University, Seoul, Republic of Korea	195	Solid State Ionics of Halide Superionic Conductor for Lithium Batteries
10.10 - 10.30	<i>Morning break</i>				
11.50 – 13.00	<i>Lunch (Regular Participants: Montientip Room, Halal Participants: Piman Room)</i>				
15.40 - 17.00	<i>Poster Session + the 2nd Annual ECS Meeting</i>				

Track 1 — Energy Conversion Materials and Devices (Location: Rajamontien 1)

Time	Session	Presenter	Affiliation	Abstract ID	Title
Session Chair: Yuji Okuyama and Session Co-Chair: Junjuda Unruangsri					
10.30 - 10.50	Keynote	Jia Guo	Fudan University, Shanghai, China	134	Emerging Covalent Organic Framework Photocatalysts with Molecular Precision for Sustainable Hydrogen Generation
10.50 - 11.10	Keynote	Lakshman Dissanayake	National Institute of Fundamental Studies, Kandy, Sri Lanka	136	Iodide Ionics: Effect of Iodide Ion Conductivity in Efficiency Enhancement in Dye Sensitized Solar Cells
11.10 - 11.30	Invited	Yan Chen	South China University of Technology, Guangzhou, China	82	Recovery of Doped-Electrocatalysts from Solid Waste for Catalytic Valorization of Waste-Derived Molecules

Time	Session	Presenter	Affiliation	Abstract ID	Title
11.30 - 11.50	Oral	Chaowaphat Seriwattanachai	Mahidol University, Nakhon Pathom, Thailand	50	High-Efficiency and Stable HTL-Free Carbon-Based Perovskite Solar Cells for Indoor Photovoltaics via Facet Control
Session Chair: Junjuda Unruangsri and Session Co-Chair: Shafeer Kalathil					
13.00 - 13.20	Keynote	Ashish Garg	Indian Institute of Technology Kanpur, Kanpur, India	121	Improving Performance and Stability of Perovskite Solar Cells Through Materials Engineering
13.20 - 13.40	Oral	Sangwook Park	Seoul National University, Seoul, Republic of Korea	152	Ultrafast Flame Synthesized CuRu and NiFe Catalysts for Alkaline and AEM Water Electrolysis
13.40 - 14.00	Oral	Akihiro Ishii	Tohoku University, Sendai, Japan	41	Anion Redox Activity and Stability of One-Dimensional π -Conjugated Li ₃ BN ₂ Polymorphs
14.00 - 14.20	Oral	Rei Sato	Tohoku University, Sendai, Japan	42	Fluence Window Determination for Scalable and Reproducible Laser Sintering
14.20 - 14.40	Afternoon Break				
Session Chair: Patchanita Thamyongkit and Session Co-Chair: Ashish Garg					
14.40 - 15.00	Keynote	Xianwen Mao	National University of Singapore, Singapore, Singapore	187	Quantitative functional imaging of complex interfaces
15.00 - 15.20	Oral	Ci Lin	Hainan University, Haikou, China	23	Regulating the Oxygen Evolution Mechanism Through in Situ Reconstruction of Ru-Modified Manganese Oxybromide
15.40 - 17.00	Poster Session + the 2 nd Annual ECS Meeting				

Track 2 — Energy Storage Materials and Devices (Location: Rajamontien 4)

Time	Session	Presenter	Affiliation	Abstract ID	Title
Session Chair: Manunya Okawilai and Session Co-Chair: Won-Hee Ryu					
10.30 - 10.50	Keynote	Jongsoon Kim	Sungkyunkwan University, Suwon, Republic of Korea	17	Development of High Performance Cathode Materials for Na-Ion Batteries
10.50 - 11.10	Keynote	Aravindan Vanchiappan	Indian Institute of Science Education And Research (IISER) Tirupati, Tirupati, India	31	Na-Ion Batteries from Spent Li-Ion Batteries

Time	Session	Presenter	Affiliation	Abstract ID	Title
11.10 - 11.30	Invited	Kai Zhu	Harbin Engineering University, Harbin, China	113	Electrode-Electrolyte Interfacial Reconstruction towards Capable Zn Metal Batteries
11.30 - 11.50	Invited	Biao Li	Peking University, Beijing, China	97	Correlation between Anionic Redox and Voltage Hysteresis in Li/Na Layered Compounds
Session Chair: Soorathep Kheawhom and Session Co-Chair: Jongsoon Kim					
13.00 - 13.20	Invited	Ya You (Online)	Wuhan University of Technology, Wuhan, China	62	Construction of Electrolyte for Batteries toward Extreme Temperature Application
13.20 - 13.40	Keynote	Seokwoo Jeon	Korea University, Seoul, Republic of Korea	125	Connecting Electrochemical Property with Structural Factor of 3D Nanostructure
13.40 - 14.00	Keynote	Jae Hyun Kim	DGIST, Daegu, Republic of Korea	27	Functional Materials Design of Polymer Electrolytes for Next-Generation Energy Storage
14.00 - 14.20	Keynote	Hans-Jürgen Meyer	University of Tübingen, Tübingen, Germany	13	A Complete Cathode Recovery Cycle of an Exhausted and Dismantled Lithium Battery Material
14.20 - 14.40	Afternoon Break				
Session Chair: Jiaqian Qin and Session Co-Chair: Aravindan Vanchiappan					
14.40 - 15.00	Keynote	Won-Hee Ryu	Yonsei University, Seoul, Republic of Korea	61	Lithium Metal–Air Batteries: from Fundamental Gas-Phase Electrochemistry to Atmospheric Open-Cell Energy Storage
15.00 - 15.20	Keynote	Raju Kumar Gupta	Indian Institute of Technology Kanpur, Kanpur, India	156	Material-To-Cell Integration for High-Performance Sodium-Ion Batteries
15.20 - 15.40	Keynote	Yanbing He	Tsinghua University, Shenzhen, China	76	Advanced Solid Electrolyte Interphase for Solid-State Lithium Batteries
15.40 – 16.00	Keynote	Quan-Hong Yang	Tianjin University, Tianjin, China	131	Sieving is believing: what is right carbon for sodium batteries?
16.00 – 16.20	Invited	Jeng-Yu Lin	Tunghai University, Taichung City, Taiwan	34	Modification of MOF-5 Thin Film on MnO ₂ Cathodes for Ultra-Stable Aqueous Zinc-Ion Batteries

Track 3 — Iontronics & Track 2 — Energy Storage (Afternoon) (Location: Rajamontien 2)

Note: Track 3 and Track 4 ran out of scheduled speakers by 15 September noon. From this point onward, this meeting room also hosts Track 2 — Energy Storage Materials and Devices presentations. The room/track assignment itself is unchanged.

Time	Session	Presenter	Affiliation	Abstract ID	Title
Session Chair: Seokwoo Jeon and Session Co-Chair: Numpon Insin					
10.30 - 10.50	Keynote	Rajendra K. Singh	Banaras Hindu University, India	201	Next-generation sodium-ion battery cathode materials for battery energy storage: performance optimization, recent advances, and future perspectives
10.50 - 11.10	Keynote	Kandalam V. Ramanujachary	Rowan University, USA	200	Nephelauxetic Study of Photoluminescence in Structurally and Anionically Modified Materials
11.10 - 11.30	Oral	Dipti Yadav	Jaypee Institute of Information Technology, Noida, India	46	Flexible Polysaccharide-Based Polymer-In-Salt-Electrolytes (PISEs) Doped with Magnesium Salt for All-Solid-State Ultra-Capacitor: Anion Effect
11.30 – 11.50	Oral	Zhenshen Li	Tianjin University, Tianjin, China	124	Low-Ion-Electron Transport Strategy Minimizes Electrolyte Oxidation for Stable All-Solid-State Batteries without Cathode Modification
Session Chair: Raju Kumar Gupta and Session Co-Chair: Prasit Pattananuwat					
13.00 - 13.20	Keynote	Takeshi Yajima	Nagoya University, Nagoya, Japan	16	Single-Crystal Studies on Conduction Mechanisms in Lithium Superionic Conductors
13.20 - 13.40	Keynote	Feng Li	Chinese Academy of Sciences, Shenyang, China	140	Ion Mobility in Polymer-Based Solid-State Batteries
13.40 - 14.00	Invited	Jiayun Wen	University of Shanghai For Science And Technology, Shanghai, China	141	Interface Engineering and Wetting Behavior Study of Solid-State Lithium Metal Batteries
14.00 - 14.20	Oral	Junjie Wang	Tianjin University, Tianjin, China	127	Size-Dependent Trade-Off between Sulfur Catalysis and Sulfide Electrolyte Decomposition for Room-Temperature Ultrahigh-Rate All-Solid-State Li-S Batteries
14.20 - 14.40	Afternoon Break				
Session Chair: Seokwoo Jeon and Session Co-Chair: Jae Hyun Kim					
14.40 - 15.00	Invited	Ya Chen	Shanghai Jiao Tong University, Shanghai, China	58	Multi-Scale Interfacial Design for Inorganic All-Solid-State Lithium Metal Batteries
15.00 - 15.20	Invited	Ming Liu	Tsinghua Shenzhen International Graduate School, Shenzhen, China	66	A Direct View on Li Ions Transport in Solid State Batteries

Time	Session	Presenter	Affiliation	Abstract ID	Title
15.20 - 15.40	Invited	Pulkit Garg	Indian Institute of Technology Jammu, Jammu, India	165	Tailoring ZnMn ₂ O ₄ Through Metal Doping for Enhanced Zinc-Ion Hybrid Supercapacitor Performance
15.40 - 16.00	Invited	Brindha Moorthy	Indian Institute of Technology Tirupati, Tirupati, India	179	Design and Optimization of High-Performance Cathode Materials for Sodium-Ion Batteries

Track 4 — Computational Science (Morning) & Track 2 — Energy Storage Materials and Devices (Afternoon) (Location: Rajamontien 3)

Note: Track 3 and Track 4 ran out of scheduled speakers by 15 September noon. From this point onward, this meeting room also hosts Track 2 — Energy Storage Materials and Devices presentations. The room/track assignment itself is unchanged.

Time	Session	Presenter	Affiliation	Abstract ID	Title
Session Chair: Manaswee Suttipong and Session Co-Chair: Wanwisa Limphirat					
10.30 - 10.50	Keynote	Gregory Offer	Imperial College London, London, United Kingdom	146	Predicting the Lifetime of Lithium-Ion and Next Generation Batteries via Physics Based Modelling
10.50 - 11.10	Invited	Hui Xia	Nanjing University of Science and Technology, Nanjing, China	64	Manganese-Based Cathode Design and Interface Modulation for High-Performance Sodium-Ion Batteries
11.10 - 11.30	Oral	Yoshiya Matsuoka	Nagoya Institute of Technology, Nagoya, Japan	8	Atomistic Insights into Ion Transport at Ceramics–Polymer Composite Electrolyte Interfaces via Neural Network Potential Molecular Dynamics
11.30 - 11.50	Oral	Ali Hassan	Chulalongkorn University, Bangkok, Thailand	143	Molecular Dynamics Investigation of PEO-Modified Sodium-Ion Liquid Electrolytes
Session Chair: Anongnat Somwangthanaroj and Session Co-Chair: Manfred Martin					
13.00 - 13.20	Invited	Chunpeng Yang	Tianjin University, Tianjin, China	67	AI-Assisted Study on Solid-State Electrolytes for Lithium Batteries
13.20 - 13.40	Invited	Chunxi Hai	Chengdu University of Technology, Chengdu, China	24	Configuring Highly Ultra-Stable Na ₃ V ₂ (PO ₄) ₃ Cathodes for Long-Cycle-Life Sodium-Ions Batteries
13.40 - 14.00	Oral	Yichun Zhao	Wuhan University of Technology, Wuhan, China	114	3D MOF-Derived Novel CuF ₂ Nanocubes as Cathode: Porous Structure Design and Application in High Energy Density Primary Batteries
14.00 – 14.20	Invited	Ahmad Azmin Mohamad	Universiti Sains Malaysia, Malaysia	230	Mn Doping on the Structural, Surface, and Electrochemical Properties of SrTiO ₃ for Hybrid Supercapacitors

Time	Session	Presenter	Affiliation	Abstract ID	Title
14.20 - 14.40	Afternoon Break				
Session Chair: Rojana Pornprasertsuk and Session Co-Chair: Hans-Jürgen Meyer					
14.40 - 15.00	Oral	Jeet Sharma	The University of New South Wales (UNSW), Sydney, Australia	159	Liquid Crystal Display-Printed Programmable Nanochannels via Photo-PIMS for Lithium Metal Batteries
15.00 - 15.20	Oral	Maya Das	Tribhuvan University, Kathmandu, Nepal	184	Zinc Functionalized Reduced Graphene Oxide Hydrogel: a Potential Paradigm for Advanced Energy Storage Applications
15.20 - 15.40	Oral	Daya Rani	INST Mohali, Mohali, India	154	Nitrogen-Doped Carbon Interfaces to Regulate Lithium Transport in Entropy-Stabilized Oxides for Lithium Storage
15.40-16.00	Oral	Qidi Zhang	Harbin Engineering University, Harbin, China	158	Interfacial Engineering of Lithium Metal Anodes for Next-Generation High-Energy-Density Batteries
16.00-16.20	Oral	Harini E.M	Institute of Nano Science and Technology, Mohali, India	155	Strength in Unity: Designing of Hybrid Heterostructure (NiSe ₂ /rGO/PANI) Electrode towards High Performance, Flexible, Asymmetric Supercapacitor Device for Renewable Energy Storage

Track 5 — ICSMEI 2026 (Location: An An 2 Room)

Time	Session	Presenter	Affiliation	Abstract ID	Title
Session Chair: Orathai Boondamnoen					
10.30 – 11.00	Keynote	Lai Chin Wei	Universiti Malaya, Malaysia	204	Advancing Environmental Remediation with Titanium Dioxide-Based Nanoparticles: From Innovation to Real-World Applications
11.00 - 11.30	Keynote	Pei-Chen Su	Nanyang Technological University, Singapore	193	Hydrogen-Free Exsolution of Socketed Ir-Fe Nanoalloys for Stable SOC Air Electrodes
11.30- 11.50	Invited	Thiam Leng Chew	Universiti Teknologi PETRONAS, Malaysia	216	Mixed Matrix Membranes Incorporated with Mesoporous Silica MSU-2 for Enhancement in CO ₂ /CH ₄ Permeation
11.50 - 13.00	Lunch				
Session Chair: Irnis Azura Zakarya					
13.00 – 13.15	Oral	Mohamad Azim Faris Bin Roslee	Universiti Tun Hussein Onn, Malaysia	217	Design of Experiments (DOE) for the Parametric Study of a Multi-Axis Air Injection Banana Fiber Opener

Time	Session	Presenter	Affiliation	Abstract ID	Title
13.15 – 13.30	Oral	Raynabelle Emilia Raymond	Universiti Tun Hussein Onn, Malaysia	218	Development and Finite Element Analysis of a Pneumatic Needle-Punching Machine for Laboratory-Scale Nonwoven Production
13.30 - 13.45	Oral	Wei Sing Yong	Swinburne University of Technology Sarawak Campus, Malaysia	219	Cellulose nanocrystals reinforced paint: rheological evaluation and performance study
13.45 – 14.00	Oral	Chanon Manee	Chulalongkorn University, Thailand	220	Exploration of Shelf-Life Extension and Antimicrobial PVA Biocomposite Films Incorporating Eggshell Membrane-Derived Collagen and Rhinacanthin-C Extract from
14.00 - 14.15	Oral	M. Amirulhusni M.Fadzir	Universiti Tun Hussein Onn, Malaysia	221	Stability of biopolymer from renewable resources
14.15 - 14.40	Afternoon Break				
Session Chair: Irnis Azura Zakarya					
14.40 – 14.55	Oral	Sovankongkea Som	Chulalongkorn University, Thailand	222	Influence of TPS/ENR Ratio and MCC Incorporation on Blend Morphology and Mechanical Performance
14.55 – 15.10	Oral	Amin Suffian bin Suleiman	Universiti Tun Hussein Onn, Malaysia	223	Physical Characterization of Waste oil Polymer Composite After Prolonged Storage
15.10 - 15.25	Oral	Ahmad Shawqee Hasan	Universiti Tun Hussein Onn, Malaysia	224	Theoretical Framework for BIM Personnel Competencies: A Review of Technical and Non-Technical Competencies in the Construction Industry
15.25- 15.40	Oral	Theara Yann	Chulalongkorn University, Thailand	225	Natural Rubber Fibrous Mats via Solution Blow Spinning: Effect of Processing Parameters on Fiber Formation
15.40-15.55	Oral	Alvin Guo Jian Lee	Swinburne University of Technology Sarawak Campus, Malaysia	226	Operating pH influencing nickel and zinc carbonation using bicarbonate-carbonate from CO2 capture with NaOH-CaCO3
15.55-16.10	Oral	Daniel Nyuin Alfred Damu	Swinburne University of Technology Sarawak Campus, Malaysia	227	Utilisation of captured CO2 as calcium bicarbonate with silicomanganese slag for sustainable pressed brick production
1610-16.25	Oral	Sk Md Kamal Uddin	Khulna University of Engineering & Technology (KUET), Bangladesh	228	Investigating the potential of jute hurd for sustainable bio-composite construction materials

Day 3 — Wednesday, 16 September 2026

Plenary & Common Sessions

Time	Session	Presenter	Affiliation	Abstract ID	Title
Location: Rajamontien 4 Session Chair: Nipapan Ruecha and Session Co-Chair: Pawin lamprasertkun					
08.30 - 09.10	Plenary 5	Charles S Henry	Colorado State University, Fort Collins, United States	103	Electrochemical Detection in Microfluidics: Innovations for Affordable and Portable Analytical Sensing
09.10 - 09.50	Plenary 6	Ming-Kang Tsai	National Taiwan Normal University, Taipei, Taiwan	14	Quantitative Predictions for the Molecular Properties of Metal-Ligand Coordination Compounds Using Chemical Text-Based Information
09.50 - 10.10	<i>Morning break</i>				
11.50 - 12.20	<i>Award Announcement and Appreciation Remarks (by ASSI New Board Committee) (Location: Rajamontien 4)</i>				
12.20 - 13.30	<i>Lunch (Regular Participants: Montientip Room, Halal Participants: Piman Room)</i>				

Track 1 — Energy Conversion Materials and Devices (Location: Rajamontien 1)

Time	Session	Presenter	Affiliation	Abstract ID	Title
Session Chair: Pinit Kidkhunthod and Session Co-Chair: Sangwook Park					
10.10 - 10.30	Keynote	Wanwisa Limphirat	Synchrotron Light Research Institute	199	X-ray Absorption Spectroscopy at SLRI for Advanced Energy Conversion and Storage Materials
10.30 - 10.50	Keynote	Chinmoy Ranjan	Indian Institute of Science, Bengaluru, India	172	High Temperature CO ₂ Electrolysis: Operando Studies
10.50 - 11.10	Invited	Ping He	Nanjing University, Nanjing, China	169	Electrocatalytic Energy Storage
11.10 - 11.30	Invited	Yihan Ling	China University of Mining And Technology, Xuzhou, China	65	The Anode Support of Microporous Channels Can Safely and Efficiently Convert and Utilize Low Concentration Coal Mine Methane in High-Temperature Fuel Cells
11.30 - 11.50	Oral	Abdul Basit	Harbin Institute of Technology, Harbin, China	110	Effects of RF Plasma Treatment on the Electrolyte for Intermediate Temperature Solid Oxide Fuel Cells

Time	Session	Presenter	Affiliation	Abstract ID	Title
Session Chair: Chanon Pornrungrroj and Session Co-Chair: Ravisara Wattana					
13.30 - 13.50	Invited	Jianghua Chen	Hainan University, Haikou, China	26	Quantitative and 3D Imaging in Electron Microscopy for Materials Science
13.50 - 14.10	Oral	Sanni Lawal Enesi	Federal University Dutse, Jigawa, Nigeria	98	Development of Cobalt Doped Activated Carbon Nanomaterial Derived from Biowaste as an Efficient Electrocatalyst for Hydrogen Generation
14.10 - 14.30	Oral	Manasi Murmu	Chonnam National University, Republic of Korea	151	ALD Enabled Interface Engineering of WO ₃ /MXene/FeOOH Photoanodes for Efficient Photoelectrochemical Water Oxidation
14.30 - 14.50	Oral	Nathawuth Wongwutcharanukoun	Tohoku University, Sendai, Japan	32	Understanding the Role of Cobalt Substitution in Low-Temperature Oxygen Surface Exchange of SrTi _{1-x} FexO _{3-δ}
14.50 - 15.10	Invited	Huiyu Zhang	Xi'an Jiaotong University, Xi'an, China	105	Mechanism of Synergistic Regulation between Electrochemical Performance and Thermal Uniformity for Segmented Series Tubular Solid Oxide Fuel Cells with Direct Internal Methane Reforming
15.10 - 15.30	Oral	Selvaraj Seenivasan	Indian Institute of Technology Goa, Goa, India	145	Formation of NiMo Nano-Alloys via ALD to Accelerate Electron Transport and Achieve Sustainable Solar Hydrogen Production in Silicon Photocathodes.

Track 2 — Energy Storage Materials and Devices (Location: Rajamontien 4)

Time	Session	Presenter	Affiliation	Abstract ID	Title
Session Chair: Prasit Pattanauwat and Session Co-Chair: Panawan Vanaphuti					
10.10 - 10.30	Keynote	Wei-Ren Liu	Chung Yuan Christian University, Taoyuan, Taiwan	190	Oxygen Vacancies Engineering to Boost Li-Ion Transport and Cycling Stability in TiNb ₂ O ₇ Anodes
10.30 - 10.50	Keynote	Derrick Fam Wen Hui	Institute of Materials Research and Engineering (IMRE), A*STAR	202	Polymer-Based, Mechanically-Robust, All-Solid-State Batteries
10.50 - 11.10	Keynote	Hong Li	Institute of Physics, CAS, Beijing, China	196	R&D on In Situ Solidification
11.10 - 11.30	Keynote	Jun Lu	Zhejiang University, Hang Zhou, China	74	Sulfide-Based Solid-State Batteries and Materials Interface Engineering
11.30 – 11.50	Invited	Mani Pujitha Illa	National Institute of Technology Tiruchirappalli, Tiruchirappalli, India	175	Upcycling Spent Graphite for Multivalent Aqueous Zinc-Ion and Aluminum-Ion Batteries
Session Chair: Derrick Fam Wen Hui and Session Co-Chair: Orapa Thamwattana					

Time	Session	Presenter	Affiliation	Abstract ID	Title
13.30 - 13.50	Invited	Shu-Hao Chang	Chung Yuan Christian University, Taoyuan City, Taiwan	160	Designing Current Collectors and Interfaces for Stable Lithium and Zinc Metal Batteries
13.50 - 14.10	Invited	Hongqiang Wang	Guangxi Normal University, Guilin, China	99	Research on Electrode Materials for High-Energy-Density Lithium-Ion Batteries
14.10 - 14.30	Oral	Sudarshan Narayanan	Indian Institute of Technology Kanpur, Kanpur, India	189	Ion-Transport Enhancement Strategies for High-Performance NASICON-Type Na-Ion Solid-State Battery Electrolytes
14.30 - 14.50	Oral	Yuki Nagao	Japan Advanced Institute of Science and Technology, Nomi, Japan	11	Decoupling Interfacial Proton Transport in Thin Polymer Electrolytes

Track 2 — Energy Storage Materials and Devices (Location: Rajamontien 2)

Note: Track 3 and Track 4 ran out of scheduled speakers by 15 September noon. From this point onward, this meeting room also hosts Track 2 — Energy Storage Materials and Devices presentations. The room/track assignment itself is unchanged.

Time	Session	Presenter	Affiliation	Abstract ID	Title
Session Chair: Pawin lamprasertkun and Session Co-Chair: Orapa Thamwattana					
10.10 - 10.30	Invited	Insik In		—	—
10.30 - 10.50	Invited	Chen-Zi Zhao	Tsinghua University, Beijing, China	39	Designing Electrolytes for 600 Wh kg ⁻¹ Lithium Batteries
10.50 - 11.10	Invited	Yujing Liu	Zhejiang University of Technology, Hang Zhou, China	162	Micro-Scale Study on Sensitive Lithium Metal Battery Materials
11.10 – 11.30	Invited	Chilin Li	Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai, China	84	Recent Progresses of Fluoride Batteries
11.30 – 11.50	Oral	Debin Kong	China University of Petroleum (East China), Qingdao, China	194	Lithium-Chlorine Batteries and Associated Critical Materials
Session Chair: Panawan Vanaphuti and Session Co-Chair: Pawin lamprasertkun					
13.30 - 13.50	Invited	Xin Ao	Nanchang University, Nanchang, China	93	Strategies for Enhancing PEO-Based Polymer Solid-State Electrolytes

Time	Session	Presenter	Affiliation	Abstract ID	Title
13.50 - 14.10	Oral	Yimeng Huang	Tongji University, Shanghai, China	78	Integrated Rocksalt-Polyanion Cathodes for High-Energy and Stable Lithium-Ion Batteries
14.10 - 14.30	Oral	Guang Sun	Tongji University, Shanghai, China	73	Dynamic Structural Adaptation in Halide Cathodes for All-Solid-State Lithium Batteries
14.30 - 14.50	Invited	Abhik Banerjee	TCG Crest, Kolkata, India	188	Engineering Fluorine Chemistry in Chloride Solid Electrolytes for Next-Generation Li-Metal Batteries
14.50-15.10	Oral	Bhargab Sharma	Birla Institute of Technology and Science, Pilani, Pilani, India	19	Porous Spinel Powering Solid-State Supercapacitors
15.10 - 15.30	<i>Afternoon Break</i>	—		—	—

Special Session: Thai-UK Workshop (Morning) + Track 2 — Energy Storage Materials and Devices (Afternoon) (Location: Rajamontien 3)

Note: Track 3 and Track 4 ran out of scheduled speakers by 15 September noon. From this point onward, this meeting room also hosts Track 2 — Energy Storage Materials and Devices presentations. The room/track assignment itself is unchanged.

Time	Session	Presenter	Affiliation	Abstract ID	Title
09.00 - 09.30	Keynote	Jiaqian Qin		—	Surface Modification of Copper Current Collectors and Solid-State Electrolytes for Advancing Lithium Metal Batteries
09.30 - 09.45	Invited	Jingwen Weng	Imperial College London, London, United Kingdom	150	Battery Thermal Safety and Phase-Change-Materials-Based Thermal Management Strategy
09.45 – 10.00	Invited	Mohammed Asheruddin Nazeeruddin	Imperial College London, London, United Kingdom	149	Physics-Based Modelling of LFP Cell and Pack Performance under Thai Climatic and Driving Conditions
10.00 – 12.00	Panel Discussion and Battery Modelling Workshop				
Session Chair: Rojana Pornprasertsuk and Session Co-Chair: Orapa Tamwattana					
13.30 - 13.50	Oral	Gulraiz Tanvir	Nationanl Center For Nanoscience & Technology, Beijing, China	3	Dihydrophenazine-Based Porous Composite Organic Cathode for Lithium-Ion Battery

Time	Session	Presenter	Affiliation	Abstract ID	Title
13.50 - 14.10	Invited	Xiangjun Pu	Wuhan Universtiy, Wuhan, China	59	Iron-Based Polyanionic Solid-Solution Phases for Sodium-Ion Batteries
15.10 - 15.30	<i>Afternoon Break</i>				

Special Session: Green Hydrogen and Advanced Characterization Workshop and Seminar

Time	Session	Presenter	Affiliation	Abstract ID	Title
15.30 – 15.40	Invited	Chanon Pornrungroj	Chulalongkorn University, Thailand		
15.40 – 15.50	Invited	Pawin lamprasertkun	Sirindhorn International Institute of Technology, Thailand		
15.50 – 16.00	Invited	Manunya Okhawilai	Chulalongkorn University, Thailand		
16.00 – 16.10	Invited	Wanwisa Limphirat	Synchrotron Light Research Institute, Thailand		
16.10 – 16.20	Invited	Wisit Hirunpinyopas	Kasetsart University, Thailand		
16.20 – 17.00	Panel Discussion				

Poster Presentations (Location: Exhibition Hall)

Poster presenters are split evenly by paid-registration status across the two poster sessions and grouped by track below. Presenters highlighted in amber have not yet paid their registration fee.

Poster Session — Day 1 (Monday, 14 September 2026, 16.40 – 18.00)

Poster No.	Track	Presenter	Affiliation	Abstract ID	Title
Track 1 — Energy Conversion Materials and Devices					
P-01	Track 1	Suhyuk Ko	Seoul National University, Seoul, Republic of Korea	36	Highly Textured BZY Thin Films with Enhanced Proton Conductivity for Proton-Conducting Solid Oxide Cells
P-02	Track 1	Daniel Gil	Seoul National University, Seoul, Republic of Korea	40	Effect of Anode Nanostructures on the Electrochemical Performance of Thin-Film SOFCs Fabricated on Nanoporous AAO Substrates
P-03	Track 1	Inyoung Jeong	Seoul National University, Seoul, Republic of Korea	45	Redox-State Engineering of Ni/GDC Thin-Film Anodes for Carbon-Tolerant Syngas-Fueled SOFCs
P-04	Track 1	Feungsiri Jankrajangaeng	Chulalongkorn University, Bangkok, Thailand	48	Micro-Honeycomb Monolith Fabricated by Ice-Templating for Enhanced Photocatalytic Hydrogen Production Couple with Alcohol Oxidation
P-05	Track 1	Yuan Gao	China University of Mining And Technology, Xuzhou, China	60	In-Situ Formed High-Entropy Composite Air Electrode with Brilliant Tri-Phase Conductivity for Proton-Conducting Tubular Solid Oxide Cell
P-06	Track 1	Jiahong Hu	University of Science And Technology of China, Hefei, China	69	Anode Supported Solid Oxide Fuel Cells with Enhanced Mechanical Strength and Thermal Cycle Stability
P-07	Track 1	Thanakorn Khumtong	Ubon Ratchathani University, Ubon Ratchathani, Thailand	54	Annealing-Temperature-Driven Structural Evolution and Photoelectrochemical Performance of Well-Defined Iron Oxide Nanorod Arrays
P-08	Track 1	Darinee Phromyothin	King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand	53	Electrochemical Detection of Salbutamol Using the Molecular Imprinted Polymer Technique with Nano Copper Oxide
P-09	Track 1	Narathon Khemasiri	King Mongkut's Institute of Technology Ladkrabang (KMITL), Bangkok, Thailand	55	Unveiling the Crucial Role of Post-Annealing in Crystal Structure Evolution and Photoelectrochemical Performance of BiVO ₄ Films for Self-Powered H ₂ O ₂ Detection
P-10	Track 1	Jiawen Jian	Ningbo University, Ningbo, China	83	Study and Application of High-Temperature Solid Electrolyte Gas Sensors
Track 2 — Energy Storage Materials and Devices					
P-11	Track 2	Sunglun Kwon	The Catholic University of Korea, Bucheon-Si, Republic of Korea	4	Electrochemical Formate and CO Reduction Utilizing LDH(Layered Double Hydroxide) Nanosheet

Poster No.	Track	Presenter	Affiliation	Abstract ID	Title
P-12	Track 2	Hyeryun Jeong	GIST, Gwangju, Korea, Republic of	5	Multidimensional Chemical–Biological Evaluation of Encapsulation Materials for Implantable Micro-LED Bioelectronic Interfaces
P-13	Track 2	Riku Imanishi	Mie University, Tsu, Japan	29	Lithium Metal Electrode Coated with Inorganic Thin Film by Pulsed Laser Deposition
P-14	Track 2	Wasinee Sirifongnukul	Chulalongkorn University, Bangkok, Thailand	47	Development of Semi-Transparent 3D Structured Conductive Electrode
P-15	Track 2	Yudai Huang	College of Chemistry, Xinjiang University,, Urumqi, China	57	Design and Stabilization Mechanism of the Negative Electrode Interface for Aqueous Zinc-Ion Batteries
P-16	Track 2	Jun Jin	Chinese Academy of Sciences, Shanghai, China	68	Single-Atomic Triggered Fast Redox Conversion in Li-S Batteries
P-17	Track 2	Xiangwei Wu	Chinese Academy of Sciences, Shanghai, China	88	Structure Design of the Cathode Enables Na-NiCl ₂ Batteries with High Rate and Long Cycling Performance
P-18	Track 2	Huijian Wang	Hunan University, Changsha, China	102	Solid-To-Solid Zn Anode and Interhalogen Iodine Cathodes for High-Voltage Fluoride-Ion Batteries
P-19	Track 2	Yuan Zhou	Chengdu University of Technology, Chengdu, China	28	Preparing High-Performance Resin-Based Hard Carbon for Sodium-Ion Batteries
P-20	Track 2	Gia-Linh Huynh	Chulalongkorn University, Bangkok, Thailand	90	All-Solid-State Electrode for Potentiometric Chloride Detection in Biological Fluids
P-21	Track 2	Xiao Liang	Hunan University, Changsha, China	100	Earth-Abundant Elements for High-Energy Rechargeable Batteries
P-22	Track 2	Parame Janson	Chulalongkorn University, Bangkok, Thailand	49	Direct Regeneration of Spent LiNi _{0.5} Mn _{0.3} Co _{0.2} O ₂ (NMC532) Cathodes via Carbon Flotation and LiI-LiOH Eutectic Molten Salt
P-23	Track 2	Arpita Mishra	Birla Institute of Technology and Science, Pilani, Pilani, India	18	Novel Quasi-Solid-State Electrolyte Membranes for Zn ²⁺ Ion Energy Storage Devices.
P-24	Track 2	Bumjoon Kim	KAIST, Daejeon, Korea, Republic of	33	Elastomeric Electrolytes and Protective Layers for Stable Operation of Lithium Metal Batteries
P-25	Track 2	Priyanka Bhardwaj	Birla Institute of Technology and Science, Pilani, India	70	Enhancing Ionic Transport in PEO-Based Composite Electrolytes Using a 3D Sulfonate-Functionalized MOF for All-Solid-State Supercapacitors
P-26	Track 2	Hardeep Hardeep	Birla Institute of Technology and Science, Pilani, Pilani, India	111	CO ₂ -Activated Freeze-Dried Carbon Aerogel Electrodes for High-Performance Sodium-Ion Solid-State Supercapacitors

Poster No.	Track	Presenter	Affiliation	Abstract ID	Title
Track 3 — Iontronics					
P-27	Track 3	Mingdeng Wei	Fuzhou University, Fuzhou, China	63	Amorphization of Zirconium-Based Halide Electrolytes for All-Solid-State Batteries
P-28	Track 3	Sisi Liu	Tianjin University, Tianjin, China	71	A Dense Fluorinated Composite Polymer Electrolyte Featuring Fluoride- Rich Interface for Long-Life Lithium Batteries
P-29	Track 3	Zichang You	China; University of Chinese Academy of Sciences, Beijing, China	77	In Situ Grain Boundary Engineering Enabling Ultra-Long Stable Cycling Garnet-Based Solid-State Electrolytes
P-30	Track 3	Weijie Liu	Tsinghua Shenzhen International Graduate School, Shenzhen, China	118	Coupling Coordination Structures and Superionic Lithium Conduction in Amorphous Oxyhalide Solid-State Electrolytes
P-31	Track 3	Chien-Pan Liu	Tunghai University., Taichung City, Taiwan	35	UV-Cured Fluorinated All-Component Crosslinked Solid Polymer Electrolytes via Diazide Nitrene Insertion for High-Voltage Solid-State Lithium Metal Batteries
P-32	Track 3	Kamaldeep Bisht	Birla Institute of Technology and Science Pilani, Pilani, India	52	High-Performance Solid-State Supercapacitor Using Li+-Garnet Polymer Composites
P-33	Track 3	Xiaorong Dong	Chinese Academy of Sciences, Shanghai, China	104	Tailoring Solvation Structure via Soft-Hard Segment Synergy in Gel Polymer Electrolytes Enables Dendrite-Free Sodium Batteries with Ultra-Long Cycling
Track 4 — Computational Science					
P-34	Track 4	Kittiyaporn Siao Suk	Chulalongkorn University, Bangkok, Thailand	148	Molecular Dynamics Insights into Anion-Dependent Solvation and Ion Transport in DME-Based Sodium-Ion Battery Electrolytes
P-35	Track 4	Yujin Oh	Sejong University, Seoul, Korea, Republic of	177	Compositional Engineering of High-Conductivity Amorphous Sulfide Electrolytes via Data-Driven Optimization

Poster Session — Day 2 (Tuesday, 15 September 2026, 15.40 – 17.00)

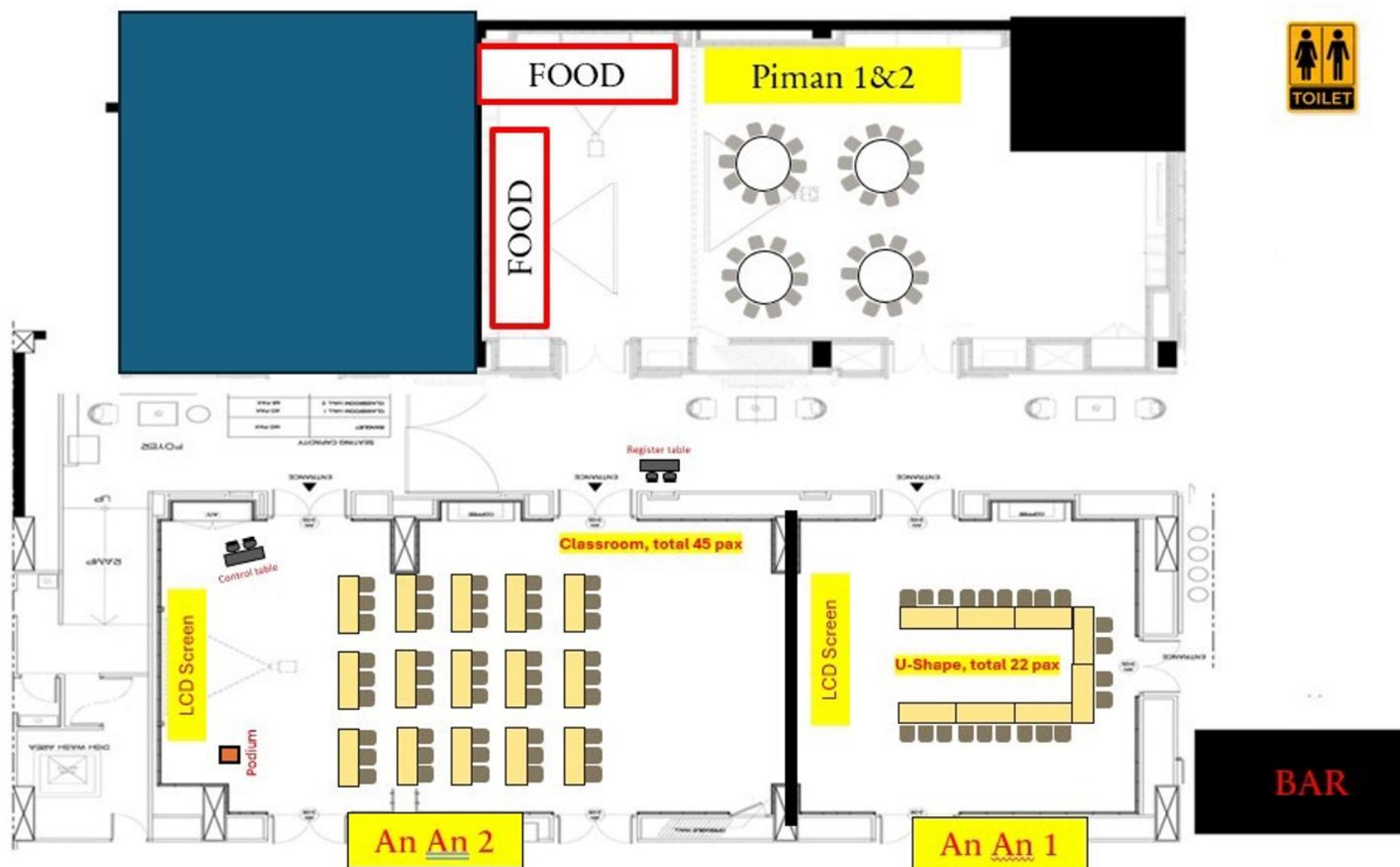
Poster No.	Track	Presenter	Affiliation	Abstract ID	Title
Track 1 — Energy Conversion Materials and Devices					
P-01	Track 1	Bo Wei	Harbin Institute of Technology, Harbin, China	79	Turning Detrimental Segregation into Beneficial Surface Reconstruction in Double Perovskites for SOFCs
P-02	Track 1	Hongru Hao	Harbin Institute of Technology, Harbin, China	80	F-Doped GdBaCo ₂ O _{5+δ} Layered Perovskite Cathodes for Enhanced Oxygen Reduction Activity and CO ₂ Tolerance
P-03	Track 1	Jian Zhou	Harbin Institute of Technology, Harbin, China	81	Etching Promoted Surface Reconstruction of PrNi _{0.3} Co _{0.7} O ₃ for Enhanced Oxygen Electrocatalysis
P-04	Track 1	Hailu Dai	Yancheng Institute of Technology, Yancheng, China	89	La _{0.5-x} ScxSr _{0.5} MnO _{3-δ} Cathodes for Proton-Conducting Solid Oxide Fuel Cells: Taking Advantage of the Secondary Phase
P-05	Track 1	Chalinee Auanphui	Chulalongkorn University, Bangkok, Thailand	138	A Laser-Induced Graphene-Based Potentiometric Aptasensor for Escherichia Coli Detection: Comparative Performance of Cationic and Anionic Marker Ions
P-06	Track 1	In Won Choi	Seoul National University, Seoul, Korea, Republic of	166	Enhanced Activity and Durability of a Layered Double Perovskite Oxygen Electrode via Niobium Doping for Intermediate-Temperature Reversible Solid Oxide Cells
P-07	Track 1	Pravesh Negi	Indian Institute of Technology Roorkee, Roorkee, India	180	Engineering Silicon Nanostructures for Efficient Solar-Driven Hydrogen Evolution
P-08	Track 1	Napol Chuanchart	Chulalongkorn University, Bangkok, Thailand	185	A Net-Structured Graphene–Chitosan Electrochemical Immunosensor for Sensitive Detection of Mpox Virus
P-09	Track 1	Dnyaneshwari Lokhande	Symbiosis International University, PUNE, India	167	Synergistic Coupling of Co-Doped V ₂ O ₅ Nanobelts with Reduced Graphene Oxide for Enhanced Oxygen Evolution Electrocatalysis
P-10	Track 1	Nichapat Parvilairut	Department of Chemistry, Faculty of Science, Chulalongkorn University, Bangkok, Thailand	229	CoII-Phthalocyanine-based Photoanodes for Photoelectrochemical Water Oxidation
Track 2 — Energy Storage Materials and Devices					
P-11	Track 2	Junwei Liang	Tsinghua Shenzhen International Graduate School, Shenzhen, China	109	Longitudinal Spatial Charge Transfer Optimization in Composite Cathodes Enables Ultra-Stable All-Solid-State Batteries

Poster No.	Track	Presenter	Affiliation	Abstract ID	Title
P-12	Track 2	Guanyou Xiao	Tsinghua Shenzhen International Graduate School, Shenzhen, China	116	In-Situ Polymerized Composite Electrolytes for High-Voltage Solid-State Lithium Metal Batteries
P-13	Track 2	Nan Fang	Tsinghua University, Shenzhen, China	117	Efficient Ion Percolating Network and Interfacial Engineering for PVDF-Based Solid-State Battery with High Loading Cathode and Long-Cycling-Life
P-14	Track 2	Zhenshen Li	Tianjin University, Tianjin, China	123	Low-Ion-Electron Transport Strategy Minimizes Electrolyte Oxidation for Stable All-Solid-State Batteries without Cathode Modification
P-15	Track 2	Zhenhan Xie	Tsinghua Shenzhen International Graduate School, Shenzhen, China	132	Activating Interfacial Ion Exchange in Composite Electrolytes for High-Rate and Long-Cycling Solid-State Lithium Batteries
P-16	Track 2	Hui Dou	Nanjing University of Aeronautics and Astronautics, Nanjing, China	133	Fast Deposition Kinetics Enabled by Na ₁₅ Sn ₄ /NaBr Interphase Engineering for Superior Sodium Metal Batteries at Room and Low Temperatures
P-17	Track 2	Aamir Khan	Chulalongkorn University, Bangkok, Thailand	176	Green Synthesis of AuNPs and GO-AuNPs Nanocomposite Using Withania Cogulans Seed Extract.
P-18	Track 2	Asha Chaudhary	IIT Roorkee, Roorkee, India	182	Calcination Temperature Effect on the Morphology of NVP/Carbon Nanofibers and the Performance of the Optimized Cathode
P-19	Track 2	Rahul Patel	India Institute of Technology Roorkee, Roorkee, India	183	Improved PEMFC Performance via Sulfamic Acid-Doped SPEEK/MIL-101 Membranes
P-20	Track 2	Chatmongkhon Konwitthayasin	Chulalongkorn University, Bangkok, Thailand	178	Effects of Mn ₂ O ₃ Content on the Phase Formation and Sintering Behavior of Na ₃ Zr ₂ Si ₂ PO ₁₂ Prepared by Reactive Sintering from the Na ₂ ZrSi ₂ O ₇ -ZrO ₂ -NaPO ₃ System
P-21	Track 2	Tham Le Mai Hong	Chulalongkorn University, Bangkok, Thailand	181	Mn-Doped NiCo ₂ S ₄ Composite with Bifunctional ORR/OER Activities in Rechargeable Zinc-Air Batteries
P-22	Track 2	Chonnamas Piadsoongnern	Chulalongkorn University, Bangkok, Thailand	144	Preparation of Manganese Dioxide/Graphitic Carbon Nitride Photocatalyst Composites for Dye Degradation under Visible Light Irradiation
P-23	Track 2	Xiaogang Zhang	Nanjing University of Aeronautics and Astronautics, Nanjing, China	135	An Aqueous Proton Battery under Alkaline Electrolyte
P-24	Track 2	Sakshi Khatavkar	Deemed University, Pune, India	168	Interlayer-Stabilized Layered Co _{0.25} V ₂ O ₅ Nanobelts for High-Energy and Durable Supercapacitor Applications
Track 3 — Iontronics					
P-25	Track 3	Zheng Zhang	Tsinghua Shenzhen International Graduate School, Shenzhen, China	120	A Ductile Solid Electrolyte Interphase for Solid-State Batteries

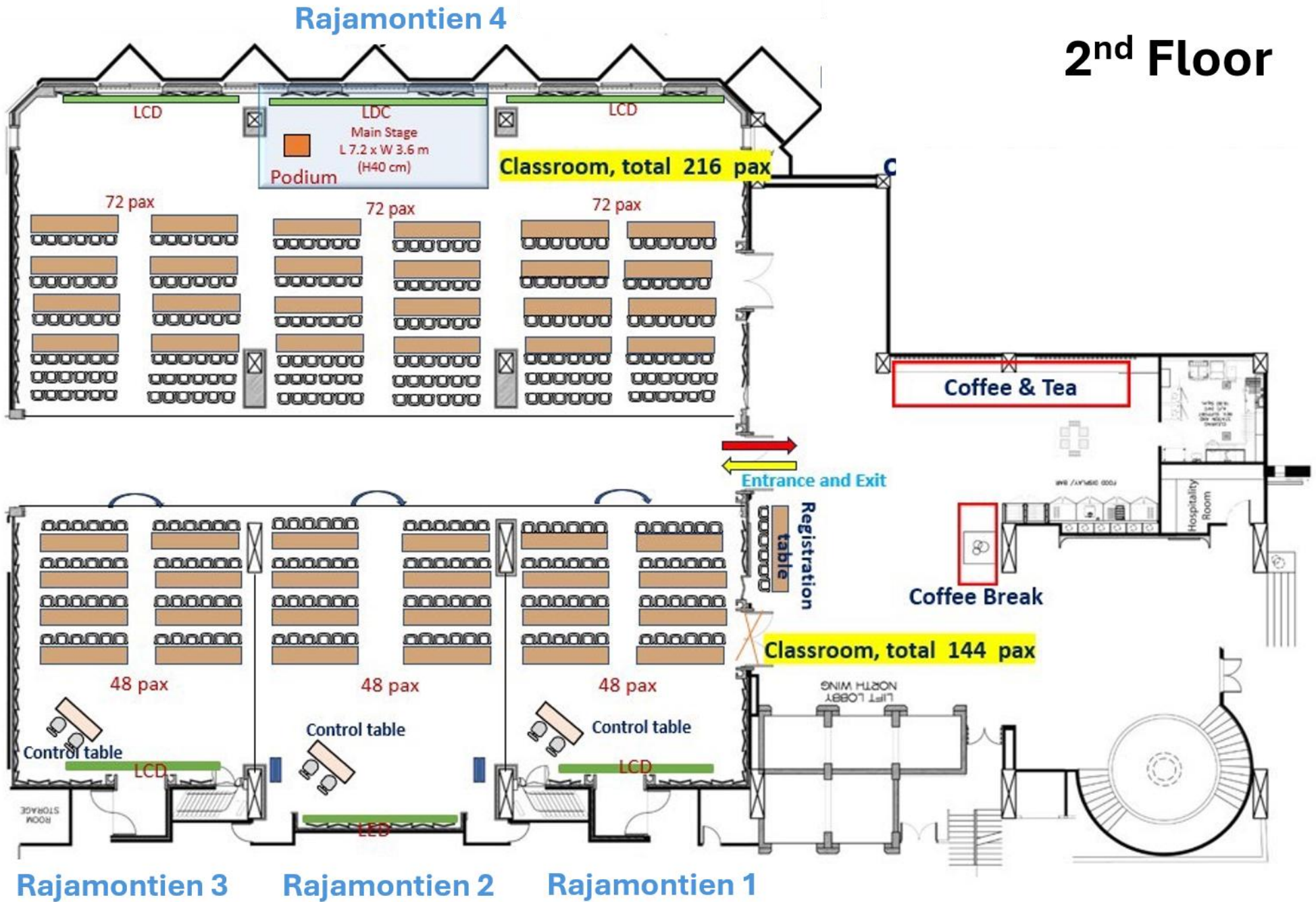
Poster No.	Track	Presenter	Affiliation	Abstract ID	Title
P-26	Track 3	Junjie Wang	Tianjin University, Tianjin, China	126	Size-Dependent Trade-Off between Sulfur Catalysis and Sulfide Electrolyte Decomposition for Room-Temperature Ultrahigh-Rate All-Solid-State Li-S Batteries
P-27	Track 3	Kang-Rui Ren	Tsinghua Shenzhen International Graduate School, Shenzhen, China	128	Supramolecular Ligands Enable Efficient Ion Transport in Solid-State Lithium Batteries
P-28	Track 3	Zhiyuan Zhu		130	Oxygen-Rich Crosslinker Modulated Weakly-Solvating Gel Polymer Electrolyte for Stable High-Voltage Lithium Metal Batteries
P-29	Track 3	Ke Yue		171	Low-LUMO Orotic Acid Enables Li ₃ N-Embedded Solid Electrolyte Interphase for Stable All-Solid-State Lithium Metal Batteries
P-30	Track 3	Jiajie Wen	Shanghai Institute of Ceramics, Shanghai, China	122	Nano-Inorganic Cluster Chains Construct Internal Interfaces in Polymer Solid Electrolytes to Enhance Sodium-Ion Transport
P-31	Track 3	Chuang Yu	Xidian University, Xidian, China	137	Functional Solid Electrolytes Design for High-Performance All-Solid-State Lithium Batteries
P-32	Track 3	Manel Sarangika	Sabaragamuwa University of Sri Lanka, Belihuloya, Sri Lanka	161	Design and Optimization of Xanthan Gum-Based Gel Electrolyte Using Mixed Magnesium Salts for Mg-Ion Batteries
P-33	Track 3	Sarangika H.N.M	Department of Physical Sciences And Technology, Faculty of Applied Sciences , Sabaragamuwa University of Sri Lanka, Belihuloya, Sri Lanka	163	Influence of Glycerol Plasticizer on Ionic Conductivity and Dielectric Properties of Biodegradable Sodium Alginate Gel Electrolytes

Meeting Room in Montien Surawong Hotel

B Floor



2nd Floor



2nd Floor

