

# IAS International Conference on Energy Materials (Jan 19-23, 2026)

## Poster List

Poster Board #	Poster Presenter	University/Institution	Poster Title	Date of Presentation
1	Lee, Dong Gyu	HKUST	Suppressing SEI Growth for Al Foil Anode under a Low Stack Pressure with Solid Polymer Electrolytes	Jan 20 (Tuesday)
2	Chang, Kin Ting Rex	HKUST	Triplet Sensitization Photon Upconversion Using Near-Infrared Indirect-Bandgap AgBiS <sub>2</sub> Nanocrystals	Jan 22 (Thursday)
3	Li, Xiangshuai	HKUST	Homochiral Metal–Organic Framework Featuring Transformable Helical and Sheeted Structures	Jan 20 (Tuesday)
4	Chang, Xiaomeng	HKUST	Solvent-Dripping Modulated 3D/2D Heterostructures for High-Performance Perovskite Solar cells	Jan 22 (Thursday)
5	Lin, Yutong	Southern University of Science and Technology	Hybrid Bimetallic Halides with Swift Blue Luminescence for Highly Sensitive Remote Thermometry	Jan 20 (Tuesday)
6	Deng, Yanhao	National University Of Singapore	Accelerating the Discovery of Disordered Multi-Component Solid Electrolytes with High-Performance Machine Learning Interatomic Potentials	Jan 22 (Thursday)
7	Sun, Chongbo	Tsinghua University	PulseRenew: Rapid Pulse Diagnostics for Lithium-ion Battery Reuse & Recycling	Jan 20 (Tuesday)
8	Ding, Lifeng	Xi'an Jiaotong-Liverpool University	Computer Simulation and Machine Learning Aided Discovery of Novel Nanoporous Materials	Jan 22 (Thursday)
9	Yang, Cui Yun	HKUST	Stabilizing Solid-State Lithium Metal Batteries with Laser-Driven Transient Thermal Gradient Interface Engineering	Jan 20 (Tuesday)
10	Dubey, Akshita	Indian Institute of Science Education and Research Bhopal	Synthesis and Study of Transport Properties of Topological Semi-Metals	Jan 22 (Thursday)
11	Zhang, Taolue	HKUST (Guangzhou)	Unlocking Ultrafast Diagnosis of Retired Batteries via Interpretable Machine Learning and Optical Fiber Sensors	Jan 20 (Tuesday)
12	Huang, Jiajia	HKUST	A Combined First Principles and Experimental Study of Super-Concentrated Aqueous Solutions of KOH and NaOH	Jan 22 (Thursday)
13	Zhou, Jia Qian	Southern University of Science and Technology	Tunable Blue-Emitting Hybrid Zinc-Based Halides with Thermally Activated Delayed Fluorescence and Room-Temperature Phosphorescence	Jan 20 (Tuesday)
14	Ouyang, Jing	HKUST	Modulator Engineering to Bifunctional Metal-Organic Framework for Synergistic Catalysis	Jan 22 (Thursday)
15	Zou, Zhi	Shanghai Jiao Tong University	Direct Regeneration of Spent Li-Ion Cathodes via Rapid Heating: Microwave and Joule-Thermal Approaches	Jan 20 (Tuesday)
16	Kan, Wang Hay Jack	China Spallation Neutron Source	Determination of the Degree of Randomness in LMR and Rock-Salt Cathodes	Jan 22 (Thursday)
17	Shang, Jin	City University of Hong Kong	Size-Inverse Molecular Sieving Xenon/Krypton Separation through Cation-Tuned Gating Effect within Linde Type A Zeolites	Jan 20 (Tuesday)
18	Kumar, Nitish	HKUST	In-situ Growth of Perovskite Heterostructure for Photocatalytic H <sub>2</sub> Generation	Jan 22 (Thursday)
19	Shen, Xinyi	HKUST	Crystal-Facet-Directed Fully Evaporated Perovskite Solar Cells	Jan 20 (Tuesday)
20	Leung, Ho Yin	HKUST	Ultrapore Engineering of Metal Isonicotinate MOFs using Ligand Solid Solutions	Jan 22 (Thursday)

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21	Sun, Haifeng	The Chinese University of Hong Kong	All-Inorganic Chiral Core@Shell Nano-Luminophores: Boosting Circular Polarization of Luminescence by Multimodal Deep Learning	Jan 20 (Tuesday)
22	Leung, Tik Lun	University of Sydney	Ammonium-Free Layered Perovskites for Wide-Bandgap Solar cells	Jan 22 (Thursday)
23	Tam, Bryan Siu Ting	HKUST	Hybrid Organic-Perovskite Color Conversion Media for Full-Color Displays	Jan 20 (Tuesday)
24	Li, Nuotong	HKUST	A Robust Hierarchical Nanoporous Electrode as a Bifunctional Catalyst for Membrane-Free Electrolyzer	Jan 22 (Thursday)
25	Wang, Zilong	HKUST	Enthalpy-Driven Molecular Engineering Enables High-Performance Quasi-solid-state Electrolytes for Long Life Lithium Metal Batteries	Jan 20 (Tuesday)
26	Liu, Huiyu	ShanghaiTech University	Rational Design of High-Performance Piezoelectric Organic Cage Salts for Flexible Wearable Sensors	Jan 22 (Thursday)
27	Wong, Wan Yin Lawrence	HKUST (Guangzhou)	Variation Temperature Studies on Quartz-like Zeolitic Imidazolate Frameworks (ZIF) Materials by X-Ray and Neutron Powder Diffraction	Jan 20 (Tuesday)
28	Nie, Si Qing	HKUST	Evaporated Hole Transport Layer for Stable and High-Performance p-i-n Structured Perovskite Solar Cell	Jan 22 (Thursday)
29	Yao, Jingwen	Chongqing Normal University	Efficient Green and Red/NIR Spin-LEDs Enabled in Chiral Perovskites at Room Temperature	Jan 20 (Tuesday)
30	Otal, Eugenio	Shinshu University	Screening Cu Paddlewheel MOFs for Methane Storage Using CHGNet and Techno-Economic Linker Analysis	Jan 22 (Thursday)
31	Yang, Hua	China Spallation Neutron Source	Nanoengineered Aqueous-Hydrotrope Hybrid Liquid Electrolyte Solutions for Efficient Zinc Batteries across a Wide Temperature Range	Jan 20 (Tuesday)
32	Qu, Feng Jin	China Spallation Neutron Source	Local Structure Evolution in a Ferric Oxsulfate Cathode for Na-Ion Batteries	Jan 22 (Thursday)
33	Yang, Xinchun	Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences	Enzyme-Mimicking Dual Site Catalysts for Ammonia Electrosynthesis of Nitrate	Jan 20 (Tuesday)
34	Rong, Lirong	HKUST	Thienoacene-Bonded Laminate Cements Hole-Transport Interfaces in Perovskite Solar Cells	Jan 22 (Thursday)
35	Yin, Mei Lin	The University of Queensland	Infiltration Hybrids of COFs and Glasses	Jan 20 (Tuesday)
36	Lau, Kwan Shing	HKUST	Overcoming Lattice Interpenetration in Zn(INA) <sub>2</sub> Diamondoid MOFs	Jan 22 (Thursday)
37	Yu, Zhiling	South China University of Technology	Quantitative Study on Photogenerated Charges Based on Electron Holography	Jan 20 (Tuesday)
38	Sung, Herman Ho Yung	HKUST	Challenges in Structural Characterization of Energy Materials Using S-XRD	Jan 22 (Thursday)
39	Zhang, Qingqing	HKUST	From Stability Compromise to Reinforcement: A Safe Molecular Strategy for Inverted Perovskite Solar Cells	Jan 20 (Tuesday)
40	Wang, Cengan	HKUST	Determining Absolute Structure of Chiral MOFs by Micro-Electron Diffraction	Jan 22 (Thursday)
41	Zhong, Zihan	Dalian University of Technology	HOF-Enabled Synthesis of Porous PEDOT as an Improved Electrode Material for Supercapacitor	Jan 20 (Tuesday)