

International Conference on Advanced Functional Materials and Technologies (ICAFMT) Program

Time	PLENARY (Talk: 30 min; Question: 5 min)	Keynote (Talk: 17 Min; Question: 3 min)	Invited (Talk: 12 min; Question: 3 min)	Oral (Talk: 10 min; Question: 2 min)
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DAY 1 | Friday, October 23, 2026
Registration
2nd Floor, Building C, Dongguan Institute of Materials Science and Technology, CAS

2nd Floor, Building C, Dongguan Institute of Materials Science and Technology, CAS

DAY 2 Morning | Saturday, October 24, 2026
Registration Available 2nd Floor, Building C

Registration Available 2nd Floor, Building C

08:30–08:40	Opening Ceremony & Welcome Address Weihua Wang
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PLENARY	Chair: Weihua Wang Room 206, Building C
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08:40–09:15	Kuijuan Jin (Institute of Physics, CAS, China) (PLENARY) Research on Photonic Interactions with Low-Dimensional Oxides
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09:15–09:50	Huiming Cheng (Shenzhen Institute of Advanced Technology, CAS, China) (PLENARY) Exploration of 2D Material Membranes with High Ion Conductivities
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09:50–10:25	Vivian Wing-Wah Yam (The University of Hong Kong, China) (PLENARY) From Control of Excited States, Nanostructures and Morphologies To Functions Through Molecular Design and Supramolecular Assembly
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10:25-10:40	Tea Break & Poster Session
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Time	Room 204, Building C	Room 313, Building A4	Room 314, Building A4	Room 203, Building C	Room 202, Building C	Room 206, Building C	Room 201, Building C
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Sessions	Session 1 Chair: Shu Ping Lau Electronic and Information-Processing Materials	Session 2A Chair: Lifeng Liu Advanced Materials for Energy Storage and Conversion	Session 2B Chair: Xuejie Huang Advanced Materials for Energy Storage and Conversion	Session 3 Chair: Chenjie Xu Biomaterials	Session 4 Chair: Bo Zhang High-Performance Metallic Materials & Alloys	Session 5 Chair: Alexandre Tkatchenko AI-Driven Materials Discovery & Computational Materials Science	Session 6 Chair: Zhiyi Wei Advanced Characterization and Measurement Techniques
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10:40-11:00	Yang Chai (The Hong Kong Polytechnic University, China) (KEYNOTE) Bioinspired In-Sensor Intelligence for Artificial Vision	Shengli Chen (Wuhan University, Wuhan, China) (KEYNOTE) Materials Strategies for Electrocatalytic Interface Engineering in Proton Exchange Membrane Fuel Cells	Wei Chen (Huazhong University of Science and Technology, China) (KEYNOTE) High Performance Inverted Perovskite Solar Cells: From Lab to Fab	Min Wang (The University of Hong Kong, China) (KEYNOTE) New Inks and Bioinks and their 3D/4D/5D Printing and Bioprinting for Tissue Engineering	Xiaoyan Li (Tsinghua University, China) (KEYNOTE) Strength-ductility synergy in emerging nanostructured metallic materials and associated mechanisms	Gian-Marco Rignanese(École Polytechnique de Louvain, Belgium) (KEYNOTE) From High-Throughput ab initio Calculations to Machine Learning: The New Era of Materials Informatics	Lin Gu (Tsinghua University, China) (KEYNOTE) Structure–property relationships of materials in real space
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11:00-11:20	Kui Jin (Institute of Physics, CAS, China) (KEYNOTE) Enhanced superconductivity in FeSe and the physics behind	Paulo Ferreira (University of Lisbon, Portugal) (KEYNOTE) Understanding $\text{LiNi}_x\text{Co}_y\text{Mn}_z\text{O}_2$ Battery Cathodes by Advanced Transmission Electron Microscopy	Weiguo Song (Institute of Chemistry CAS, China) (KEYNOTE) A Green Technology for Chiral Amino Alcohol Production	Jinhui Wu (Nanjing University, China) (KEYNOTE) Drug Delivery Systems Based on Engineered Living Biological Carriers	Yuntian Zhu (City University of Hong Kong, China) (KEYNOTE) Heterostructured Materials: Definition, Differentiation and Design	Patrick Rinke (Technical University Munich, Germany) (KEYNOTE) Machine-learning accelerated catalyst discovery and characterisation	Renzhong Tai (Shanghai Advanced Research Institute, CAS, China) (KEYNOTE) SSRF phase-II beamlines and application in material science
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11:20-11:35	Xingli Wang (Nanyang Technological University, Singapore) (INVITED) CVD-Grown Two-Dimensional Iron Tellurides: A Platform for Room-Temperature Multiferroicity	S. Mouli Thalluri (International Iberian Nanotechnology Laboratory, Portugal) (INVITED) A Scalable, Substrate-Integrated Route to High-Entropy Alloy Electrocatalysts for Green Hydrogen Production	Man Chung Tang (Tsinghua Shenzhen International Graduate School, China) (INVITED) Recent Advances in Deuterated Materials for High-Efficiency Optoelectronic Devices	Menghua Xiong (South China University of Technology, China) (INVITED) Activable membranolytic peptides for spatiotemporal control of membrane rupture	Xusheng Yang (The Hong Kong Polytechnic University, China) (INVITED) High-performance Nanostructured Crystalline-amorphous Dual-phase Metals	Wei Liu (Changchun Institute of Applied Chemistry, CAS, China) (INVITED) AI-Enabled High-Precision Surface and Interface Chemistry	Qingyu Kong (Synchrotron Soleil, France) (INVITED) The Optical Dispersive EXAFS (ODE) Beamline at Soleil Synchrotron and Its Studies
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11:35-11:50	Long Ren (Shanghai University, China) (INVITED) Preparation and application of liquid metal-based hetero-composites	Wenwen Liu (Nanyang Technological University, Singapore) (INVITED) Design and Construction of High-Performance Micro-Supercapacitors Based on Two-Dimensional Quantum Dots	Bo Shen (City University of Hong Kong, China) (INVITED) Integrated High-Throughput Computation and Synthesis for Accelerated Discovery of Multi-Principal Element Alloys	Yu Du (Institute of Mechanics, CAS, China) (INVITED) Study Mechanical Regulation of Liver Diseases with Microphysiological Systems	Yu Zou (University of Toronto, Canada) (INVITED) Extreme mechanics and additive manufacturing of metallic materials	Igor Poltavskiy (University of Luxembourg, Luxembourg) (INVITED) Small Data, Big Simulations: Building Better Force Fields with aims-PAX	Chunyang Wang (Institute of Metal Research, CAS, China) (INVITED) Advanced Electron Microscopy for Understanding the Failure Mechanisms of Battery Materials
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11:50-12:05	Chong Wei Tan (Nanyang Technological University, Singapore) (INVITED) Plasma-Enabled Thin Film Engineering for Coating Applications	Udayabhaskararao Thumu (University of Electronic Sci & Tech China) (INVITED) Adaptive Crystallization and Multication Engineering of Functional Nanomaterials for Multifunctional Electrocatalysis	Hao Shen (Suzhou National Laboratory, China) (INVITED) From Microscopic Defects to Microstructural Engineering: Toward Reliable Solid-State Batteries	Ye Zhang (Dongguan Institute of Materials Science and Technology, CAS, China) (INVITED) Engineering Peptide Assembly for Mechanotransduction-Mediated Cell Reprogramming	Zhen Lu (Institute of Physics, CAS, China) (INVITED) Heterostructured Amorphous Alloys for Highly Efficient Catalysis	Wengen Ouyang (Wuhan University, China) (INVITED) Modular and Scalable Modeling of Interfacial Properties in van der Waals Heterostructures	Songhua Cai (The Hong Kong Polytechnic University, China) (INVITED) Characterization and Modulation of Halide Perovskite Microstructures
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DAY 2 Afternoon | Saturday, October 24, 2026
Registration Available 2nd Floor, Building C

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PLENARY	Chair: Jinkui Zhao Room 206, Building C						
13:15-13:50	Tao Xiang (Institute of Physics, CAS, China) (PLENARY) AI for Quantum Materials Discovery and Strongly Correlated Physics						
13:50-14:25	Yousung Jung (Seoul National University, Korea) (PLENARY) Designing Matter That Can Be Made						
14:25-15:00	En Ma (Xi'an Jiaotong University, China) (PLENARY) Realizing two challenging functions: alloy for load-bearing at >2000 °C and phase-change material for memory with no drift						
15:00-15:35	Alexandre Tkatchenko (University of Luxembourg, Luxembourg) (PLENARY) Toward Predictive Materials Simulations with Machine-Learned Force Fields						
15:35-15:50	Tea Break & Poster Session						
Time	Room 204, Building C	Room 313, Building A4	Room 314, Building A4	Room 203, Building C	Room 202, Building C	Room 206, Building C	Room 201, Building C
Sessions	Session 1 Chair: Xingli Wang Electronic and Information-Processing Materials	Session 2A Chair: Paulo Ferreira Advanced Materials for Energy Storage and Conversion	Session 2B Chair: Weiguo Song Advanced Materials for Energy Storage and Conversion	Session 3 Chair: Min Wang Biomaterials	Session 4 Chair: Yuan Wu High-Performance Metallic Materials & Alloys	Session 5 Chair: Yongqing Cai AI-Driven Materials Discovery & Computational Materials Science	Session 6 Chair: Xiuliang Ma Advanced Characterization and Measurement Techniques
15:50-16:10	Shu Ping Lau (The Hong Kong Polytechnic University, China) (KEYNOTE) Ferroelectricity in metallic van der Waals ferromagnets	Xuanhua Li (Northwestern Polytechnical University, China) (KEYNOTE) Photocatalytic Water Splitting: Catalysts, Reaction System, and Multifunctional Devices	Yanbing He (Tsinghua Shenzhen International Graduate School, China) (KEYNOTE) Composite Electrolyte for Solid-State Lithium Batteries	Deju Ye (Nanjing University, China) (KEYNOTE) Smart In Situ Molecular Assembly for Cancer Theranostics	Yanhui Liu (Institute of Physics, CAS, China) (KEYNOTE) Combinatorial Development of Metallic Glasses	Stefano Sanvito (Trinity College, Dublin, Ireland) (KEYNOTE) Machine-learning Methods for Magnetic Materials Discovery	Qian Yu (Zhejiang University, China) (KEYNOTE) The Influence of Dislocation-Solute Inelastic Interactions on Materials' Mechanical Properties
16:10-16:30	Han Wang (The University of Hong Kong, China) (KEYNOTE) Van Der Waals Material Devices for Advanced Computing and Memory	Maria Helena Braga (University of Porto, Portugal) (KEYNOTE) Ferroionic Materials for Energy Harvesting, Storage, and Sensing: From Polarization Landscapes to Wireless Devices	Xuejie Huang (Institute of Physics, CAS, Beijing, China) (KEYNOTE) Materials for High Energy Density Lithium Battery	Hongliang Ren (The Chinese University of Hong Kong, China) (KEYNOTE) Endoluminal Robotics & Embodied AI in vivo	Bo Zhang (Dongguan Institute of Materials Science and Technology, CAS, China) (KEYNOTE) From Ultrastable Glasses to Glass Dating	Jun Cheng (Xiamen University, China) (KEYNOTE) AI acceleration of AIMD simulation of electrochemical interfaces	Zhiyi Wei (Institute of Physics, CAS, China) (KEYNOTE) Advanced ultrafast laser system for matter dynamics and material fabrication
16:30-16:45	Beibei Xu (Zhejiang University, China) (INVITED) Room temperature continuous wave circularly polarized laser from 3D chiral organic–inorganic perovskite	Xi Chen (Lingnan University, China) (KEYNOTE) Negative Emissions: Advances in Key Materials for Direct Air Capture of Carbon Dioxide	Yongsheng Hu (Institute of Physics, CAS, China) (KEYNOTE) Solid-State Na Batteries: Advances in Electrolytes and Interfaces	Chenjie Xu (City University of Hong Kong, China) (KEYNOTE) Development of microneedle devices for body fluid sampling and biosensing	Yuan Wu (University of Science and Technology Beijing, China) (KEYNOTE) Simultaneous increase of strength and plasticity via low-temperature annealing in amorphous alloys and high-entropy alloys	Yongqing Cai (University of Macau, China) (KEYNOTE) From Weak to Strong Atomic Dynamics: Diverse Scattering and Transport Pathways	Yeliang Wang (Beijing Institute of Technology, China) (KEYNOTE) Tuning Properties of Novel 2D Heterostructures & Devices
16:45-17:00	Jinbao Jiang (National University of Defense Technology, China) (INVITED) Ultra-Steep Subthreshold Swing 2D Semiconductor Transistors	Shuqin Song (Sun Yat-sen University, Guangzhou, China) (INVITED) Creation and Mechanistic Investigation of Catalysts for Hydrogen–Electricity Conversion	Jijian Xu (City University of Hong Kong, China) (INVITED) Constructing inorganic-rich interphases for high-energy, wide-temperature batteries	Yi Kuang (The Hong Kong University of Science and Technology, China) (INVITED) Bidirectional photoriboswitch for translational regulation in mammalian cells	Pengfei Guan (Ningbo Institute of Materials Technology and Engineering, CAS, China) (KEYNOTE) AI-Enabled Computation and Design of High-Performance Alloys	Jizhou Li (The Chinese University of Hong Kong, China) (INVITED) AI-Driven Computational Microscopy for Materials Science	Xiyang Li (Institute of Physics, CAS, China) (INVITED) From Transverse Phonons to the Boson Peak: Probing the Vibrational Correlations in Amorphous Materials
17:00-17:15	Nianpeng Lu (Institute of Physics, CAS, China) (INVITED) Freestanding oxide membranes and flexible devices	Zhiming Cui (South China University of Technology, China) (INVITED)-Intermetallic Compound Electrocatalysts for Hydrogen-Electric Conversion	Shunli Wang (Sichuan University, China) (INVITED) Advanced Characterization and Situation Awareness of Energy Storage Power Station	Zhaoli Gao (The Chinese University of Hong Kong, China) (INVITED) Electronic Biosensors Harnessing CVD-Grown Graphene	Binbin He (Southern University of Science and Technology, China) (INVITED) Ductilizing ultrastrong martensitic steel via anisotropic lattice distortion	Xiaofei Liu (Nanjing University of Aeronautics and Astronautics, China) (INVITED) Consistent descriptions of van de Waals torque and stress using both molecular and continuum methods	Ziming Chen (The University of Hong Kong, China) (INVITED) Tracking Localised Carrier Dynamics via Pump–Push Action Spectroscopy
17:15-17:30	Hong Li (Nanyang Technological University, Singapore) (INVITED) Strain Two-Dimensional Materials for Optoelectronic Applications	Xuebin Wang (Nanjing University, China) (INVITED) Graphene Porous Monolith Network for Potassium-Ion Batteries	Chenhui Yang (Northwestern Polytechnical University, China) (INVITED) From MAX to MXene: High-Efficiency Ion Storage Driven by Atomic-Level Defect Engineering	Botao Gao (Guangdong Academy of Sciences, China) (INVITED) Cell Sheet Engineering for Pathological Microenvironment Adaptation	Jianguo Wang (Dongguan University of Technology, China) (INVITED) Net-shaping of metallic glass workpiece	Igor Ying Zhang (Fudan University, China) (INVITED) DL-xDH26: A Glass-Box Foundation Model for Density Functional Theory	Yujun Xie (Shanghai Jiao Tong University, Shanghai, China) (INVITED) 4D-STEM Characterization of Complex Materials for Industrial Applications
17:30-17:45	Jingyuan Zhou (Nankai University, China) (ORAL) Controllable Synthesis and Quantum Property Modulation of Two-Dimensional Intercalation Superlattices	Gaoqiang Yang (Hunan University, China) (INVITED) Interfaces and working mechanisms in Hydrogen–Electricity Conversion Devices	Mingjun Chen (Harbin Institute of Technology, Harbin, China) (INVITED) Dual Electro-Photo Responsive Smart Windows with Photo-Thermal Regulation for Building Thermal Management	Xin Li (City University of Hong Kong, China) (INVITED) Smart Microgels for Biomedical Applications	Jiang Ma (Shenzhen University, China) (INVITED) Ultrasonic plasticity of metallic glasses	Caichao Ye (South University of Science and Technology, China) (INVITED) Exploring of organic polymer functional materials by machine learning based on “polymer unit”	Yu Wang (South China University of Technology, China) (INVITED) Intelligent Electron Microscopy for Trustworthy Characterization of Functional Materials
17:45-18:00		Wen Tang (Eastern Institute of Technology, China) (ORAL) Design and Mechanistic Insights into Amorphous Halide Solid Electrolytes for All-Solid-State Batteries	Roland Yingjie Tay (Nanyang Technological University, Singapore) (INVITED) Advanced 2D Material Heterostructures for Next-Generation Energy Storage and Thermal Management	Hanbai Wu (City University of Hong Kong (Dongguan), China) (ORAL) Electroactive Biomaterials for Skin Health Management	Zengbao Jiao (The Hong Kong Polytechnic University, China) (INVITED) Design of hierarchically structured alloys with superior strength and strain hardening	Zhihua Yang (Xinjiang Technical Institute of Physics and Chemistry, CAS, China) (INVITED) Paradigm-Driven Research on Nonlinear Optical Materials	Shuqi Xu (Lund University, Sweden) (ORAL) A data analysis methodology for quantitative hydrogen mapping in metallic materials using wavelength-resolved neutron imaging
18:00-18:10		Chenkun Zhou (Nanjing Normal University, Nanjing, China) (ORAL) Termination Regulation and Surface Covalent Modification of Two-Dimensional MXenes and MXenoids			Yuanshen Qi (Guangdong Technion - Israel Institute of Tech, China) (ORAL) Lowering Young's Modulus of Ti-15Zr Alloys via Grain Boundary De-Partitioning by Electropulsing	Hongyu Yu (Fudan University, China) (ORAL)Machine learning potential for magnetic and multiferroic materials	
18:10	Banquet, Royal Garden Hotel. Shuttle bus service is available at the Building C						

DAY 3 Morning Sunday, October 25, 2026							
PLENARY	Chair: Gian-Marco Rignanes Room 206, Building C						
08:30–09:05	Bing Xu (Brandeis University, USA) (PLENARY) Enzyme-Instructed Self-Assembly for Biomedicine						
09:05-09:40	Anubhav Jain (Lawrence Berkeley National Laboratory, USA) (PLENARY) New thermal property data in the Materials Project and AI agents that compute and design materials autonomously						
09:40-10:15	Shyue Ping Ong (National University of Singapore, Singapore) (PLENARY) Physics-Informed, AI-Scale Materials Science						
10:15-10:30	Tea Break & Poster Session						
Time	Room 204, Building C	Room 313, Building A4	Room 314, Building A4	Room 203, Building C	Room 202, Building C	Room 206, Building C	Room 201, Building C
Sessions	Session 1 Chair: Shenghuang Lin Electronic and Information-Processing Materials	Session 2A Chair: Maria Helena Braga Advanced Materials for Energy Storage and Conversion	Session 2B Chair: Xin Wang Advanced Materials for Energy Storage and Conversion	Session 3 Chair: Ye Zhang Biomaterials	Session 4 Chair: Yong Yang High-Performance Metallic Materials & Alloys	Session 5 Chair: Miao Liu AI-Driven Materials Discovery & Computational Materials Science	Session 6 Chair: Yang Ren Advanced Characterization and Measurement Techniques
10:30-10:50	Beng Kang Tay (Nanyang Technological University, Singapore) (KEYNOTE) Carbon Nanotube-Based Passive Technologies for Sub-THz Applications	Xiangdong Yao (Sun Yat-sen University, Guangzhou, China) (KEYNOTE) Defect Electrocatalysis	Ping He (Nanjing University, Nanjing, China) (KEYNOTE) Electrocatalytic Energy Storage	Kai Wu (South China University of Technology, China) (INVITED) Advances and Clinical Translation in Brain–Computer Interfaces	Junqiang Wang (Ningbo Institute of Materials Technology and Engineering, CAS, China) (KEYNOTE) The evolution and interaction of relaxuns during annealing metallic glasses	Chen Ling (Beijing Institute of Technology, Beijing, China) (KEYNOTE) AI for energy materials: from big data, machine learning to AI-agents	Li Song (University of Science and Technology of China, China) (KEYNOTE) Synchrotron Radiation Study on Functional Electrochemical Materials
10:50-11:10	Zhongshuai Wu (Dalian Institute of Chemical Physics CAS, China) (KEYNOTE) 2D Materials for Micro-electrochemical Energy Storage Devices	Dawei Wang (Shenzhen University of Advanced Technology, Shenzhen, China) (KEYNOTE) Regulating Molecular Charge Topology through Lewis Acid–Base Interactions for Advanced Batteries	Torsten Brezesinski (KIT, Germany) (KEYNOTE) Protective (Dry/Wet) Coatings for Ni-Rich Cathodes in Sulfide Solid-State Batteries	Junfeng Shi (Hunan University, China) (INVITED) Molecular Chirality Encoded in Supramolecular Assemblies Programs Cellular Fate	Yong Yang (City University of Hong Kong, China) (KEYNOTE) Interfacial Distortion of Nanoprecipitates Enables Cryogenic Strength-Ductility Synergy in Complex Concentrated Alloy	Baisheng Sa (Fuzhou University, China) (INVITED) Data-driven machine learning modeling of two-dimensional group VI heterostructures	Yandong Wang (University of Science and Technology Beijing, China) (KEYNOTE) Characterization and Application of Confined Martensitic Transformation
11:10-11:25	Ruitao Wen (South University of Science and Technology, China) (INVITED) Visible and near infrared light modulation based on electrochromism	Minghui Yang (Dalian University of Technology, Dalian, China) (KEYNOTE) Metal Nitride Functional Materials	Yumei Wang (NUS Chongqing Research Institute, Chongqing, China) (INVITED) Innovations and Strategies for High-Safety, High-Energy Lithium Battery Technologies	Xiao Zhang (Guangzhou Institutes of Biomedicine and Health, CAS, China) (INVITED) Region-Specific Kidney Matrix Hydrogels Shape Podocyte Subpopulations and Glomerular Niche Assembly	Zhigang Yu (Shanghai University, China) (INVITED) Phase Diagram Mapping and Extrapolative Design of Multicomponent Alloys via Dimensionality Reduction Based on Elemental Similarity Coefficients	Zefeng Gao (Renmin University of China, China) (INVITED) AI-Driven Inverse Design of Functional Materials	Xin Tong (Institute of High Energy Physics, CAS, China) (KEYNOTE) Status of the China Spallation Neutron Source
11:25-11:40	Guofa Cai (Henan University, China) (INVITED) Large-Area Electrochromic Smart Device	Peng Zhang (Sun Yat-sen University, Guangzhou, China) (INVITED) Functional Elastomers for Adaptive Electrochemical Interfaces in Secondary Batteries	Kangning Zhao (Great Bay University, Dongguan, China) (INVITED) Aqueous Battery Stability Optimization and Device Design	Huaimin Wang (Westlake University, China) (INVITED) Designing Interactive Peptide Materials in Biological Systems for Controlling Cell Function	Wenjian Wang (Southwest Jiaotong University, China) (INVITED) Study on Thermal Fatigue Damage Behaviour of Freight Railway Wheels under Wheel-Rail-Block Coupled Contact Conditions	Lijun Liang (Hangzhou Dianzi University, China) (INVITED) Physics-Informed Machine Learning for Membrane Separation Design	Enyue Zhao (Songshan Lake Materials Laboratory, China) (INVITED) Multimodal and Multiscale Neutron Characterization of Rechargeable Batteries
11:40-11:55	Hao Wang (Nanjing University, China) (INVITED) Superconducting Nanowires for Single-photon Detection	Xijun Xu (Guangdong University of Technology, Guangzhou, China) (INVITED) Interface Engineering Enables High-Performance Sodium-Ion Batteries	Weijia Meng (Chang'an University, Xi'an, China) (INVITED) Fabrication of Micro/Nano-Structured Titanium-Based Oxides with Defects and Their Sodium Storage Mechanisms	Xunwu Hu (Dongguan Institute of Materials Science and Technology, CAS, China) (ORAL) Engineering Integrin Ligand Assemblies to Shape Cell Migration	Yuanchao Hu (Dongguan Institute of Materials Science and Technology, CAS, China) (INVITED) Graph Learning Metallic Glass Discovery from Wikipedia	Congwei Xie (Xinjiang Tech Inst of Physics and Chemistry, CAS, China) (INVITED) AI-driven Prediction of Novel Opto-electronic Functional Materials	Wanrong Gen (Dongguan Institute of Materials Science and Technology, CAS, China) (INVITED) Nanoscale manipulation and dynamic behaviors of ferroelectrics
11:55-12:10			Tianxing Kang (Guangdong University of Technology, Guangzhou, China) (ORAL) Operando Fiber Optic Sensing for Multi-Physical Monitoring and Failure Analysis of Rechargeable Batteries	Dongfei Ma (Dongguan Institute of Materials Science and Technology, CAS, China) (ORAL) Single-Molecule Dynamics of Conformational Responses in Membrane-Associated Proteins	Qingchun Yu (Kunming University of Science and Tech, China) (ORAL) Investigation on Kinetics and interfacial properties of carbon-coated copper powder	Haifeng Li (University of Macau, China) (INVITED) From Composition Design to Failure Prediction: A Machine Learning Framework for Next-Generation Battery Materials and Beyond	Chunzhen Yang (Sun Yat-sen University, China) (ORAL) Thermal Instability and Oxygen Release in High-Ni NCM Cathodes via Operando XRD, XAS and Online Mass Spectrometry
12:10-12:20						Chong Liu (Sichuan University, China) (ORAL) Artificial Intelligence in Radiochemistry: Explorations and Emerging Applications	Fangfei Hu (GBTC (Beijing) Inspection & Certification Co., Ltd., China) (ORAL) Application of GDMS to the Determination of Impurity Elements in Rare Earth and Semiconductor Materials
12:20-12:30						Xiaoyun Lin (University of Luxembourg, Luxembourg) (ORAL)A High-Fidelity and Scalable Machine Learning Force Field for Accelerating Solid-State Electrolyte Design	
12:30-13:30	Lunch , Building A1						
DAY 3 Afternoon Sunday, October 25, 2026							
PLENARY	Chair: Torsten Brezesinski (Room 206, Building C)						
13:30-14:05	Andrey Rogach (City University of Hong Kong, China) (PLENARY) Perovskite Light-Emitting Devices						
14:05-14:40	Xiangfeng Duan (University of California, USA) (PLENARY) Molecularly Programmed Solids: From Molecular Code to Emergent Functionality						
14:40-15:15	Yang Ren (City University of Hong Kong, China) (PLENARY)Neutrons and Synchrotron X-rays: Complementary Probes of Functional Materials						
15:15-15:30	Best Post/Oral Award & Closing Ceremony						