

Conference Agenda

会议日程总安排表

Data 日期	Time 时间	Activities 事项	Address 地点
August 5th 8月5日	14:00-22:00	Check-in, Registration 会议报到、注册	Yifu Building 逸夫楼
August 5th 8月5日	19:30-22:00	National committee meeting 全国理事会议	Room C401, Sino-French Center 中法中心 C401
August 6th 8月6日	8:20-18:00	Opening ceremony, plenary lectures 开幕式、大会报告	Auditorium 大礼堂
August 6th 8月6日	19:30-22:00	Asian committee meeting 亚洲理事会议	Room 113, Yifu Building 逸夫楼 113
August 6th 8月6日	19:30-22:00	SOFC committee meeting SOFC 理事会议	Room C401, Sino-French Center 中法中心 C401
August 7th 8月7日	8:30-12:00	Parallel sessions 分会场报告	Yifu building, Sino-French Center, South building of Teaching 逸夫楼、中法中心、教学南楼
August 7th 8月7日	13:00-20:00	Technical tour and Banquet 技术考察、晚餐	China (Shanghai) Electric Vehicles International EV Zone 中国(上海)电动汽车国际示范区
August 8th 8月8日	8:30-16:00	Parallel sessions 分会场报告	Yifu building, Sino-French Center, South building of Teaching 逸夫楼、中法中心、教学南楼
August 8th 8月8日	16:00-20:00	Poster session 海报环节	Sino-French Center 中法中心
August 8th 8月8日	16:00-18:00	Journal editor session 期刊编辑特别活动	Room C201, Sino-French Center 中法中心 C201
August 8th 8月8日	20:00-22:00	Industry session 产学研合作交流	Room C201, Sino-French Center 中法中心 C201
August 9th 8月9日	8:30-12:00	Plenary lectures, awarding and closing ceremony 大会报告、颁奖仪式、闭幕式	129 Auditorium 129 大礼堂

Session A: Plenary lecture 大会报告
First Day Agenda, August 6th, Monday 第一天日程安排, 8月6日, 星期一
Auditorium, Tongji University 同济大学 大礼堂

Opening Ceremony 开幕式			
8:20-9:00	合影 Group photo		
9:00-10:00	Host 主持人: Yunhui Huang 黄云辉 Opening speakers: Zhaoyin Wen 温兆银, Minfang Han 韩敏芳		
Session A-1: Plenary lecture			
10:00-12:00	Chairmen: Dr. Kawamura, Dr. Chusheng Chen 陈初升		
Time 时间	Speaker 报告人	Affiliation 单位	Title 报告题目
10:00-10:30	Plenary: Arumugam Manthiram	University of Texas at Austin	Where is Electrical Energy Storage Headed?
10:30-11:00	Plenary: Han-Il Yoo	Daegu Gyeongbuk Institute of Science & Technology	Origin of the time-dependence of open-circuit voltage of a galvanic cell involving a mixed conductor compound
11:00-11:30	Plenary: Ryoji Kanno	Tokyo Institute of Technology	All-solid-state battery - Developments of the solid-electrolytes
11:30-12:00	Plenary: Yong Yang 杨勇	Xiamen University 厦门大学	Advanced Characterization Techniques for Solid State Ionics
12:00-13:30	Lunch 午餐		

13:30-16:00	Session A-2: Plenary lecture Chairmen: Dr. Thakur, Dr. Xuejie Huang 黄学杰		
13:30-14:00	Plenary: Scott A. Barnett	Northwestern University	Novel Titanate-Based Electrodes for Solid Oxide Cells
14:00-14:30	Plenary: Feiyu Kang 康飞宇	Graduate School at Shenzhen, Tsinghua University 清华大学深圳研究生院	From Graphite to Graphene: Application to Lithium Ion Battery
14:30-15:00	Plenary: Truls Norby	University of Oslo	Proton ceramic cells for fuel cells, electrolyzers, and natural gas conversion
15:00-15:30	Plenary: Hua Zhang 张华	Nanyang Technological University	Synthesis of Novel Two-Dimensional Nanomaterials for Clean Energy Applications
15:30-16:00	Tea Break 茶歇		
16:00-18:00	Session A-3: Plenary lecture Chairmen: Dr. Eguchi, Dr. Wen Chen 陈文		
16:00-16:30	Plenary: Cewen Nan 南策文	Tsinghua University 清华大学	Solid electrolyte for all solid state lithium ion battery
16:30-17:00	Plenary: Teruhisa Horita	National Institute of Advanced Industrial Science and Technology	New National SOFC Project in Japan on High Efficiency and Toughening
17:00-17:30	Plenary: Jong-Ho Lee	Korea Institute of Science and Technology	Current Status of SOFC RD&D in Korea
17:30-18:00	Plenary: Feng Pan 潘锋	Peking University Shenzhen Graduate School 北京大学深圳研究生院	Exploring “Material Genes” In Energy Conversion and Storage Materials
18:00-19:30	Dinner 晚餐		

Session B: Advances in Solid State Ionics 固态离子学前沿分会场**Address: Second floor meeting room of Yifu Building 逸夫楼二楼演讲厅****Session Chairmen: Dr. Hanxin Liu 刘韩星 & Dr. Xin Guo 郭新****Morning, 7 August, 8月7日上午**

Session B-1				
Chairmen: Dr. Xin Guo 郭新, Dr. Wolfram Jaegerman				
No. 编号	Time 时间	Speaker 报告人	Affiliation 工作单位	Title 报告题目
1	8:30-8:50	Keynote: Jong-Sook Lee	Chonnam National University	Havriliak-negami dielectric functions and transmission line models for effective impedance spectroscopy in solid state ionics
2	8:50-9:10	Keynote: Xin Guo 郭新	Huazhong University of Science and Technology 华中科技大学	固态离子学与人工智能
3	9:10-9:25	Invited: S.R.S Prabaharan	Hindustan Institute of Technology and Science	Memristor ionics: a new path way for new-generation data storage
4	9:25-9:40	Invited: Mu Chen 陈牧	Beijing Institute of Aerial Materials 中国航发北京航空材料研究院	电化学法掺杂 Li 源制备的全固态电致变色玻璃
5	9:40-9:50	Oral: Zhangjing Zhang 张章静	Fujian Normal University 福建师范大学	宽温域晶状多孔离子导体材料
6	9:50-10:00	Oral: R.Manjuladevi	SSN College of Engineering and Technology	Study of blend polymer electrolyte film based on pva-pan incorporated with Mg(CF ₃ SO ₃) ₂
10:00-10:20		Tea Break 茶歇		
Session B-2				
Chairmen: Dr. S. Selvasekarapandian, Dr. Hua Zhang (张华 南洋理工大学)				
7	10:20-10:40	Keynote: Wolfram Jaegerman	Technische Universität Darmstadt	Performance of Li-ion batteries: contribution of electronic and ionic factors
8	10:40-11:00	Keynote: E. Kartini	Science and Technology Center for Advanced Materials	Design of the LIB module for the solar street lamp
9	11:00-11:15	Invited: M.S. Michael	SSN College of Engineering	Performance improvement of monoclinic phase Li ₂ MnSiO ₄ by ex-situ carbon coating

10	11:15-11:25	Oral: S. Monisha	Research Department of Physics, N.M.S.S.Vellaichamy Nadar College	Investigation of bio polymer electrolyte based on gum arabic with ammonium thiocyanate
11	11:25-11:35	Oral: Liangdong Fan 范梁栋	Shenzhen University 深圳大学	低温固态氧化物燃料电池纳米复合电解: 一步合成与界面超质子电导性能研究
12	11:35-11:45	Oral: Anil Arya	Central University of Punjab	Effect of TiO ₂ (Nanofiller vs. Nanorod) on the PEO based solid polymer electrolyte
13	11:45-11:55	Oral: Yanfei Liang 梁言菲	Zhejiang University 浙江大学	基于共混改性的高性能聚合物电解质隔膜
14	11:55-12:05	Oral: S.Selvalakshmi	N.M.S.S.V.N College, Nagamalai, Madurai, Tamilnadu	Ion transport studies on biodegradable solid polymer electrolyte system based on Agar-NH ₄ Br:Vibrational and electrical analysis
15	12:05-12:15	Oral: Asit Sahoo	Indian Institute of Technology	Incorporation of alloy-de-alloy phase with conversion based manganese oxide to enable high and stable capacity and density functional theory study of CdMn ₂ O ₄
12:15-13:30		Lunch 午餐		

Morning, 8 August, 8月8日上午

Session B-3				
Chairmen: Dr. Nobuyuki Imanishi, Dr. Zifeng Ma 马紫峰				
No. 编号	Time 时间	Speaker 报告人	Affiliation 工作单位	Title 报告题目
1	8:30-8:50	Keynote: Zifeng Ma 马紫峰	Shanghai Jiao Tong University 上海交通大学	燃料电池电催化过程及应用
2	8:50-9:10	Keynote: Quanhong Yang 杨全红	Tianjian University 天津大学	Transforms in carbon cage designs towards super lithium storage
3	9:10-9:30	Keynote: S. Selvasekarapandian	Bharathiar University, Coimbatore	Design and development of self-humidifying natural polymer membrane for application to fuel cell stack
4	9:30-9:45	Invited: Yan Chen 陈燕	South China University of Technology 华南理工大学	Controlling cation segregation in perovskite-based electrodes for high electro-catalytic activity and durability
5	9:45-10:00	Invited: Hua Zhang 张华	Nanjing Tech University 南京工业大学	Performance and Durability of Pt-Ni Catalysts Supported on Polypyrrole-Carbon For Fuel Cell
6	10:00-10:10	Oral: Aristatil Ganesan	Ingsman Energy and Fuel cell Organization Pvt Ltd	Development of CO tolerant anode catalyst for PEM based fuel cells

7	10:10-10:20	Oral: Tong Liu	Wuhan University 武汉大学	Enhanced oxygen permeation through hierarchically-structured dual-phase membranes fabricated by freeze-drying tape-casting method
10:20-10:30		Tea Break 茶歇		
Session B-4				
Chairmen: Dr. S.R.S. Prabaharan, Dr. Jiawen Jian 简家文				
8	10:30-10:50	Keynote: Jiawen Jian 简家文	Ningbo University 宁波大学	固态离子气体传感器控制器的研究与设计
9	10:50-11:05	Invited: Jing Li 李箐	Huazhong University of Science and Technology 华中科技大学	先进氧还原和氧析出反应电催化剂设计
10	11:05-11:20	Invited: A. K. Thakur	Indian Institute of Technology Patna	An Overview of Metal Sulphide Based Electrode for Storage Applications
11	11:20-11:30	Oral: P. Christopher Selvin	Bharathiar University	Proton exchange membrane based on biopolymer kappa carrageenan embedded with ammonium formate for application in PEMFC
12	11:30-11:40	Oral: V. Moniha	Ayya Nadar Janaki Ammal College, Sivakasi	Characterization of bio-polymer electrolyte based on iota-carrageenan with ammonium formate for electrochemical devices
13	11:40-11:50	Oral: P. Perumal	Bharathiar University	Novel eco-friendly solid polymer membrane with an incorporation of plasticizer for clean energy electrochemical devices
14	11:50-12:00	Oral: Bao Lei 雷宝	Nankai University 南开大学	双相电解液中基于储氢机制的光充二次电池
15	12:00-12:10	Oral: Jiulin Hu	Shanghai Institute of Ceramics, CAS 中科院上海硅酸盐 所	Anode Dendrite Suppression Enabled by Functional Filler and Additive Reinforced Electrolytes in Li-Metal Batteries
12:10-13:30		Lunch 午餐		

Afternoon, 8 August, 8月8日下午

Session B-5 Chairmen: Dr. Yong Yang 杨勇, Dr. Zhengwen Fu 傅正文				
No. / 编号	Time 时间	Speaker 报告人	Affiliation 工作单位	Title 报告题目
1	13:30-13:50	Invited: Koji Kandori	Ritsumeikan University	X-ray imaging study on cross-sectional concentration distribution in all-solid-state rechargeable batteries
2	13:50-14:05	Invited: Yue Shen 沈越	Huazhong University of Science and Technology 华中科技大学	锂离子电池超声波检测与监测技术
3	14:05-14:20	Invited: K. Amezawa	Tohoku University	Operando observation of reaction distribution in a composite positive electrode for all-solid-state lithium-ion batteries by using CT-XAFS
4	14:20-14:30	Oral: Wen Yang 杨文	Beijing Institute of Technology 北京理工大学	铁-氮掺杂碳基氧还原催化剂活性中心位点结构的谱学研究及其新应用
5	14:30-14:40	Oral: G. Govindaraj	Pondicherry University	Universal dielectric relaxation process and new physical insights form ac conductivity spectra
14:40-15:00		Tea Break 茶歇		
Session B-6 Chairmen: Dr. Evvy Kartini, Dr. Gang He 何岗				
6	15:00-15:15	Invited: Rohan Senadeera	The Open University of Sri Lanka	Performance enhancement of dye sensitized solar cells by co-sensitization of triple layered photoanode consisting of TiO ₂ nanofibers
7	15:15-15:30	Invited: Xianzhu Fu 符显珠	Shenzhen University 深圳大学	电力与增值化学品共生型燃料电池
8	15:30-15:45	Invited: Kuan-Zong Fung	National Cheng Kung University	Importance of Mixed-Conducting Mechanism for High-Temperature Fuel Cell Applications
9	15:40-15:55	Oral: M.A.K. Lakshman Dissanayake	University of Peradeniya	Mixed cation effect in dye sensitized solar cells
10	15:55-16:05	Oral: Rebti Bhushan	Indian Institute of Technology, Patna	Electrochemical response of N-, B-and co-doped Graphene
11	16:05-16:15	Oral: Yuyang Lu 陆宇阳	University of Science and Technology of China 中国科学技术大学	相场方法研究应力和塑性变形对相变电极容量的影响

Session C: Solid Oxide Fuel Cell-1

SOFC 分会场 1

Address: Room C201, Sino-French Center / 中法中心 C201

Session Chairmen: Dr. Minfang Han 韩敏芳

Morning, 7 August, 8月7日上午

Session C-1				
Chairmen: Dr.Truls Norby, Dr. Jong-Ho Lee				
No. / 编号	Time 时间	Speaker 报告人	Affiliation 工作单位	Title 报告题目
1	8:30-8:50	Keynote: Mark C. Williams	National Energy Technology Laboratory 美国国家能源技术实验室	Solid oxide fuel cell heat engine networks for distributed energy systems
2	8:50-9:10	Keynote: Jian Li 李箭	Huazhong University of Science and Technology 华中科技大学	A-site-deficient LaMnO ₃ -based perovskite with in-situ exsolved Ni nanoparticles: a highly active, performance stable and coking resistant catalyst for CO ₂ dry reforming of CH ₄
3	9:10-9:25	Invited: Zhe Lv 吕喆	Harbin Institute of Technology 哈尔滨工业大学	A partial-decomposed niobium doped Praseodymium barium ferrite anode material for solid oxide fuel cells
4	9:25-9:35	Oral: Zhenjun Jiao	Tokyo University	Study on the effects of polarization on Ni morphological change at active three-phase-boundary in patterned Ni-film solid oxide fuel cell anode
5	9:35-9:45	Oral: Mingyang Zhou	South China University of Technology 华南理工大学	The effect of CO-CO ₂ binary diffusion between anode and carbon fuel on the performance of a direct carbon solid oxide fuel cell
6	9:45-9:55	Oral: Shuanglin Shen	China University of Mining and Technology 中国矿业大学	A new method to estimate the leakage current in the solid oxide fuel cell with a mixed Ionic and electronic conducting electrolyte
7	9:55-10:05	Oral: Ilya N. Burmistrov	Institute of Solid State Physics RAS, Russia	Comparison of In-situ raman studies of SOFC with thick single-crystal and thin-film magnetron sputtered membranes
10:05-10:25		Tea Break 茶歇		
Session C-2				
Chairmen: Dr. Mark C. Williams, Dr. Jian Li 李箭				
1	10:25-10:45	Keynote: Toshiaki Matsui	Kyoto University	Redox-induced self-modification of cermet anodes of Ni-CeO ₂ -based oxide for solid oxide fuel cells

2	10:45-11:05	Keynote: Yanhai Du	Kent State University	A review on freeze-casting and freeze-drying Solid oxide fuel cells
3	11:05-11:20	Invited: Gang Chen	Northeastern University	Investigation of LT-SOFC based on new nanocrystalline structure
4	11:20-11:30	Oral: Zewei Lyu	Tsinghua University 清华大学	Electrochemical analysis of solid oxide fuel cells with direct internal dry reforming of methane
5	11:30-11:40	Oral: Chunling Lu	Jilin University 吉林大学	Efficient and stable symmetrical electrode $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.7}\text{Mo}_{0.1}\text{O}_{3-\delta}$ for direct hydrocarbon solid oxide fuel cells
6	11:40-11:50	Oral: Yuto Wakita	Kyushu University	Effect of Glass Wettability on the Mechanical Reliability of the Planar SOFC
7	11:50-12:00	Oral: Tao Wei 魏涛	University of Jinan 济南大学	Unveiling the different effects of a and b sites doping for ruddlesden-popper type SOFCs cathode: Sr and Co doping (substitution) in La and Ni sites of La_2NiO_4
12:00-13:30		Lunch 午餐		

Morning, 8 August, 8月8日上午

Session C-3				
Chairmen: Dr. Prabhakar Singh, Dr. Hailei Zhao 赵海雷				
No. /编号	Time 时间	Speaker 报告人	Affiliation 工作单位	Title 报告题目
1	8:30-8:50	Keynote: Joongmyeon Bae	Korea Advanced Institute of Science and Technology	Development of diesel-powered solid oxide fuel cell auxiliary power units
2	8:50-9:10	Keynote: Jiang Liu	South China University of Technology 华南理工大学	Direct operation of Ag-Based anode solid oxide fuel cells on propane
3	9:10-9:20	Oral: Junya Onishi	Tokyo University	An adjoint-based optimization method for SOFC electrodes
4	9:20-9:30	Oral: Haoyu Huang	Wuhan University 武汉大学	Effect of pre-heating temperature on fabrication and performance of anode-supported solid oxide fuel cells
5	9:30-9:40	Oral: Panpan Jiang	Jilin University 吉林大学	Fe-based double perovskite $\text{PrBaFe}_2\text{O}_{5+\delta}$ as anode material for direct hydrocarbon solid oxide fuel cell
6	9:40-9:50	Oral: Hao Meng	Tsinghua University 清华大学	The layout patterns comparison of kilowatt level SOFC stacks and characteristic parameters analysis
7	9:50-10:00	Oral: Qianyuan Qiu	South China University of Technology 华南理工大学	A sealless direct carbon solid oxide fuel cell stack for portable device
10:00-10:20		Tea Break 茶歇		

Session C-4

Chairmen: Dr. Koichi Eguchi, Dr. Yanhai Du

1	10:20-10:40	Keynote: Hailei Zhao 赵海雷	University of Science and Technology Beijing 北京科技大学	Novel electrode material $\text{SmBaMn}_2\text{O}_{5+\delta}$ for symmetrical solid oxide fuel cells
2	10:40-10:55	Invited: Chengxin Li 李成新	Xi'an Jiaotong University 西安交通大学	Study on the performance of very low pressure plasma sprayed large-area porous metal supported solid oxide fuel cell
3	10:55-11:05	Oral: Dehua Dong	Jinan University 济南大学	Nanocatalysts over supporting cathode of SOECs for CO_2 electrolysis
4	11:05-11:15	Oral: Sanghun Lee	Korea Advanced Institute of Science and Technology	Design and fabrication of a short stack with metal-based solid oxide fuel cells fabricated by sinter-joining method
5	11:15-11:25	Oral: Xiaofeng Ye 叶晓峰	Shanghai Institute of Ceramics, CAS 中科院上海硅酸盐研究所	Barium cerate based protonic conductor and its application for hydrolysis of steam
6	11:25-11:35	Oral: Yuepeng Wang	Xi'an Jiaotong University 西安交通大学	Performance of 430L stainless-steel supported solid oxide fuel cell with atmospheric plasma-sprayed $\text{La}_{0.8}\text{Sr}_{0.2}\text{Ga}_{0.8}\text{Mg}_{0.2}\text{O}_3$ electrolyte
7	11:35-11:45	Oral: Chaoqi Wang	Harbin Institute of Technology 哈尔滨工业大学	Effects of discharge mode and fuel treating temperature on the fuel utilization of Direct-carbon solid oxide fuel cell
8	11:45-11:55	Oral: Biao Wang 王彪	University of Science and Technology Liaoning 辽宁科技大学	Sm, Nd 共掺杂 $\text{BaCe}_{1-2x}\text{Sm}_x\text{Nd}_x\text{O}_{3-\delta}$ 固体氧化物燃料电池质子导体电解质的性能研究
11:55-13:30		Lunch 午餐		

Afternoon, 8 August, 8月8日下午

Session C-5

Chairmen: Dr. Tatsuya Kawada, Dr. Zhe Lv 吕喆

No. 编号	Time 时间	Speaker 报告人	Affiliation 工作单位	Title 报告题目
1	13:30-13:50	Keynote: Rak-Hyun Song	Korean Institute of Energy Research	Recent development of solid oxide Co-electrolysis cells for syngas production at KIER

2	13:50-14:10	Keynote: Ming Chen	Technical University of Denmark	Strategy for enhancing stability of solid oxide electrolysis cells at high current density
3	14:10-14:20	Oral: Guoping Xiao	Shanghai Institute of Applied Physics, CAS 中科院上海应用物理研究所	Hydrogen production using solid oxide electrolyser cells at shanghai institute of applied physics
4	14:20-14:30	Oral: Yongliang Zhang	Tsinghua University 清华大学	Gd _{0.2} Ce _{0.8} O _{2-δ} (GDC) modified electrode of methane assisted solid oxide electrolysis cells
5	14:30-14:40	Oral: Yixiao Cai	Donghua University 东华大学	Utilization of Yttria-Stabilized Zirconia-based Semiconducting-Ionic Composites for Low-Temperature Solid Oxide Fuel Cells
14:40-15:00		Tea Break 茶歇		
Session C-6 Chairmen: Dr. Shaorong Wang 王绍荣, Dr. Gang Chen 陈刚				
6	15:00-15:15	Invited: Junwei Wu	Harbin Institute of Technology (Shenzhen) 哈尔滨工业大学 (深圳)	Developing novel coatings for Impeding high temperature corrosion of solid oxide fuel cells interconnects
7	15:15-15:25	Oral: Zhibin Yang 杨志宾	China University of Mining and Technology, Beijing 中国矿业大学 (北京)	La _{0.4} Sr _{0.6} Co _{0.2} Fe _{0.7} Nb _{0.1} O _{3-δ} 电极用于对称固体氧化物电解池共电解 CO ₂ /H ₂ O 研究
8	15:25-15:35	Oral: Yuefeng Song	Dalian Institute of Chemical Physics, CAS 中科院大连化学物理研究所	Promoting oxygen evolution reaction by RuO ₂ nanoparticles in solid oxide CO ₂ electrolyzer
9	15:35-15:45	Oral: Nataliya V. Demeneva	Institute of Solid State Physics RAS, <i>Russia</i>	Long-term stability of the Ni plated crofer 22 APU for solid oxide fuel cell interconnect

Session D: Solid Oxide Fuel Cell-2**SOFC 分会场 2****Address: Room C301, Sino-French Center / 中法中心 C301****Session Chairmen: Dr. Jiang Liu 刘江****Morning, 7 August, 8月7日上午**

Session D-1				
Chairmen: Dr. Teruhisa Horita, Dr. Jiang Liu 刘江				
No. 编号	Time 时间	Speaker 报告人	Affiliation 工作单位	Title 报告题目
1	8:30-8:50	Keynote: Xingbo Liu	West Virginia University	Highly performing triple-conductive Pr ₂ NiO _{4+δ} anode for proton-conducting steam solid oxide electrolysis cell
2	8:50-9:10	Keynote: Guntae Kim	Ulsan National Insitute of Science and Technology	Development of solid oxide cells based on Perovskite materials
3	9:10-9:25	Invited: Qianli Ma	Jülich GmbH	La _{0.97} Ni _{0.5} Co _{0.5} O _{3-δ} as air electrode material for solid oxide cells
4	9:25-9:35	Oral: Ting Chen	Kyushu University	Impact of microstructure and crystallinity on surface exchange kinetics of strontium titanium iron oxide perovskite by in situ optical transmission relaxation approach
5	9:35-9:45	Oral: Shiru Le	Harbin Institute of Technology 哈尔滨工业大学	Zr and Nb co-doped BaCoO _{3-δ} as cathode for solid oxide fuel cells
6	9:45-9:55	Oral: Muhammad Zubair Khan	Korea University of Science and Technology	Degradation analysis and lifetime prediction of a solid oxide fuel cell cathode
7	9:55-10:05	Oral: Wei Wang	South China University of Technology 华南理工大学	Performance Improvement of anode-supported direct carbon solid oxide fuel cells prepared by tape casting with double-interlayer cathode
10:05-10:25		Tea Break 茶歇		
Session D-2				
Chairmen: Dr. Guntae Kim, Dr. Xingbo Liu				
1	10:25-10:45	Keynote: Koichi Eguchi	Kyoto University	Degradation factors of cathode during operation of solid oxide fuel cells
2	10:45-11:05	Keynote: Prabhakar Singh	Connecticut University	Air side challenges in SOFC

3	11:05-11:20	Invited: Wanbing Guan 官万兵	Ningbo Institute of Industrial Technology, CAS 中科院宁波工业技术研究院	对称双阴极结构固态燃料电池技术
4	11:20-11:30	Oral: Jin Wan Park	Daegu Gyeongbuk Institute of Science and Technology	Fundamental understanding of time-dependent degradation of the $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$ cathode for solid oxide fuel cells
5	11:30-11:40	Oral: Huijun Chen	South China University of Technology 华南理工大学	Enhance the activity and stability of perovskite oxide electrode by surface oxygen defect engineering
6	11:40-11:50	Oral: Mubashar Nadeem	University of Science and Technology of China 中科大	Effect of NiO addition on oxygen reduction reaction at lanthanum strontium cobalt ferrite cathode for solid oxide fuel cell
7	11:50-12:00	Oral: Xiaoliang Zhou 周晓亮	Harbin Institute of Technology 哈尔滨工业大学	直接碳固体氧化物燃料电池铈基阳极及其电极过程
12:00-13:30		Lunch 午餐		

Morning, 8 August, 8月8日上午

Session D-3				
Chairmen: Rak-Hyun Song, Zhongliang Zhan 占忠亮				
No. 编号	Time 时间	Speaker 报告人	Affiliation 工作单位	Title 报告题目
1	8:30-8:50	Keynote: Naoki Shikazono	The University of Tokyo	Tomographic and numerical Investigations of composite cathodes
2	8:50-9:05	Invited: Wonyoung Lee	Sungkyunkwan University.	Enhancing the electrochemical and chemical stability of perovskite oxide cathodes with the suppression of Sr segregation
3	9:05-9:20	Invited: Di Chen	Stanford University	Analyzing the dependence of oxygen incorporation current density on overpotential and oxygen partial pressure in mixed conducting oxide electrodes
4	9:20-9:30	Oral: Bo Wei 魏波	Harbin Institute of Technology 哈尔滨工业大学	双钙钛矿氧电极的表面偏析和 Cr 沉积
5	9:30-9:40	Oral: Takashi Okiba	Nihon University	Preparation of $\text{Ba}_{1-x}\text{La}_x\text{FeO}_{3-\delta}$ ($x=0.1-0.6$) with cubic perovskite structure and their electrical conduction property
6	9:40-9:50	Oral: Xifeng Ding	Nanjing University of Science and Technology 南京理工大学	Tailoring a novel core-shell structure cathode to achieve high CO_2 tolerance for solid oxide fuel cells

7	9:50-10:00	Oral: Qiang Li	Heilongjiang University 黑龙江大学	Electrochemical performance of cobalt-free Sn-doped Bi _{0.5} Sr _{0.5} FeO _{3-δ} cathode for intermediate-temperature solid oxide fuel cells
10:00-10:20		Tea Break /茶歇		
Session D-4				
Chairmen: Dr. Scott A. Barnett, Dr. Ming Chen 陈铭				
1	10:20-10:40	Keynote: Tatsuya Kawada	Tohoku University	Mechanical properties of electrolyte materials at elevated temperatures
2	10:40-10:55	Invited: Meng Ni	Hong Kong Polytechnic University 香港理工大学	Modeling of non-conventional solid oxide fuel cells with porous electrolyte
3	10:55-11:10	Invited: Kongfa Chen	Fuzhou University 福州大学	In situ fabrication of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} oxygen electrode using an electrochemical polarization approach: interface, performance and stability
4	11:10-11:20	Oral: K. Sasaki	Kyushu University	Spatial electrochemical impedance spectroscopy analysis of an anode-supported planar solid oxide fuel cell with segmented electrodes
5	11:20-11:30	Oral: Wangying Shi	Tsinghua University 清华大学	Stability analysis of solid oxide fuel cell based on distribution of relaxation time method
6	11:30-11:40	Oral: Yihan Ling	Forschungszentrum Jülich GmbH	Charge transfer modeling and polarization DRT analysis of La ₂ Ce ₂ O ₇ -based proton ceramics fuel cells with single and bi-layer electrolytes
11:40-13:30		Lunch 午餐		

Afternoon, 8 August, 8月8日下午

Session D-5				
Chairmen: Dr. Naoki Shikazono, Dr. Joongmyeon Bae				
No. 编号	Time 时间	Speaker 报告人	Affiliation 工作单位	Title 报告题目
1	13:30-13:50	Keynote: Shengli An 安胜利	Inner Mongolia University of Science and Technology 内蒙古科技大学	PLD 构建的 GDC-ScSZ/GDC 双层电解质导电性能研究
2	13:50-14:05	Invited: Hee Jung Park	Daejeon University	Protonic conduction properties of nanostructured doped ceria at low temperatures
3	14:05-14:20	Invited: Donglin Han	Kyoto University	Influence of sintering additives of NiO, CuO or ZnO on electrochemical properties of Y-doped BaZrO ₃

4	14:20-14:30	Oral: Zhijun Liu	South China University of Technology 华南理工大学	Enhancing sinterability and electrochemical properties of Ba(Zr _{0.1} Ce _{0.7} Y _{0.2})O _{3-δ} proton conducting electrolyte for solid oxide fuel cells by addition of NiO
5	14:30-14:40	Oral: Qianli Chen	Shanghai Jiao Tong University 上海交通大学	Proton polaron in perovskite metal oxides
14:40-15:00		Tea Break 茶歇		
Session D-6 Chairmen: Dr. Chengxin Li 李成新, Dr. Meng Ni 倪萌				
6	15:00-15:15	Invited: Kang Taek Lee	Daegu Gyeongbuk Institute of Science and Technology	Dramatic enhancement of long-term stability of erbia-stabilized bismuth oxides via quadrivalent Hf doping
7	15:15-15:25	Oral: Xueqing Yu	Northeast Normal University 东北师范大学	One-pot combustion synthesis of La _{9.67} Si ₆ O _{26.5} nanocrystals and their improved sintering and oxygen ion conduction properties
8	15:25-15:35	Oral: Yun Xie 谢云	University of Science and Technology of China 中科大	全氟体系质子导体固体氧化物燃料电池阴极材料的研究
9	15:35-15:45	Oral: Minle Chen	Fuzhou University 福州大学	High performance nanostructured bismuth oxide-cobaltite as a durable oxygen electrode of reversible solid oxide cells

Session E: Solid-State Batteries 固态电池分会场

Address: First floor lecture hall of Yifu Building 逸夫楼一楼报告厅

Session Chairmen: Dr. Guanglei Cui 崔光磊 & Dr. Xiaoxiong Xu 许晓雄

Morning, 7 August, 8月7日上午

Session E-1				
Chairmen: Dr. Stefan Adams, Dr. Guanglei Cui 崔光磊				
No. 编号	Time 时间	Speaker 报告人	Affiliation 工作单位	Title 报告题目
1	8:30-8:50	Keynote: Stefan Adams	National University of Singapore	Design of Fast-ion Conductors for Safe High Rate Capability Batteries
2	8:50-9:10	Keynote: Yuguo Guo 郭玉国	Institute of Chemistry, CAS 中科院化学所	纳米固态金属锂电池研究进展
3	9:10-9:30	Keynote: Qiang Zhang 张强	Tsinghua University 清华大学	复合固态电解质膜保护金属锂负极
4	9:30-9:45	Invited: Y. Matsukawa	Tohoku University	Evaluation of Ionic Conduction in Hybrid Organic-Inorganic Perovskite NH_4MgF_3
5	9:45-10:00	Invited: Renjie Chen 陈人杰	Beijing Institute of Technology 北京理工大学	新型固态电解质的研究
6	10:00-10:10	Oral: Jun Zhang 张俊	Zhejiang University of Technology 浙江工业大学	浆料涂覆法制备复合正极及粘结剂用量对全固态电池性能的影响
7	10:10-10:20	Oral: Fan Bai	Mie University	Lithium-ion conduction of $\text{Li}_{1.4}\text{Al}_{0.4}\text{Ti}_{1.6}(\text{PO}_4)_3\text{-GeO}_2$ composite solid electrolyte
10:20-10:40		Tea Break /茶歇		
Session E-2				
Chairmen: Dr. Yuguo Guo 郭玉国, Dr. Hui Xia 夏晖				
8	10:40-11:00	Keynote: Guanglei Cui 崔光磊	Qingdao Institute of Biomass Energy and Bioprocess Technology, CAS 中科院青岛生物能源与过程研究所	固态锂电池失效机理
9	11:00-11:15	Invited: Hui Xia 夏晖	Nanjing University of Science and Technology 南京理工大学	3D 自支撑纳米阵列正极用于全固态薄膜微电池

10	11:15-11:30	Invited: Xiangxin Guo 郭向欣	Qingdao University 青岛大学	固态锂电池关键界面问题研究
11	11:30-11:45	Invited: Chunwen Sun 孙春文	Beijing Institute of Nanoenergy and Nanosystems, CAS 中科院北京纳米能源与系统研究所	固态锂/钠电池及自供电系统研究
12	11:45-12:00	Invited: Lizhen Fan 范丽珍	University of Science and Technology Beijing 北京科技大学	固态锂电池复合型聚合物电解质
13	12:00-12:10	Oral: S. Taminato	Mie University	Synthesis, Structure and Ionic Conductivity of garnet-like lithium conductor $\text{Li}_{6.25+x}\text{Ga}_{0.25}\text{La}_{3-x}\text{Sr}_x\text{Zr}_2\text{O}_{12}$
14	12:10-12:20	Oral: Yasuhito Aoki	National Institute of Industrial Science and Technology	Analytical approach for the optimization of heat treatment condition to increase ion conductivity of sulfide solid electrolyte
12:20-13:30		Lunch 午餐		

Morning, 8 August, 8月8日上午

Session E-3				
Chairmen: Dr. Liwei Chen 陈立桅, Dr. Jingze Li 李晶泽				
No. 编号	Time 时间	Speaker 报告人	Affiliation 工作单位	Title 报告题目
1	8:30-8:50	Keynote: Liangbing Hu	University of Maryland	Garnet based solid state Li metal batteries
2	8:50-9:10	Keynote: Xiaoxiong Xu 许晓雄	FunLithium 锋锂	Polymer-ceramic composite solid electrolytes and their applications in all-solid-state lithium batteries
3	9:10-9:30	Keynote: Narumi Ohta	National Institute for Materials Science	Si anodes in thiophosphate-based solid electrolytes
4	9:30-9:45	Invited: Shouxing Bo 薄首行	Shanghai Jiao Tong University 上海交通大学	the critical role of crystallographic structure and defect in ionic/electronic transport of superionic conductors
5	9:45-10:00	Invited: Yanbing He 贺艳兵	Graduate School at Shenzhen, Tsinghua University 清华大学深圳研究生院	Low-impedance solid-state electrolyte/electrode interface for solid state lithium and sodium metal batteries
6	10:00-10:10	Oral: Shengzhao Zhang 张晟昭	Zhejiang University 浙江大学	电极/电解质界面改性有效提高固态锂电池性能

7	10:10-10:20	Oral: Liangliang Li 李亮亮	Tsinghua University 清华大学	基于锂镧锆氧陶瓷的全固态锂电池
10:20-10:35		Tea Break /茶歇		
Session E-4 Chairmen: Dr. Xiaoxiong Xu 许晓雄, Dr. Yanbing He 贺艳兵				
8	10:35-10:55	Keynote: Liwei Chen 陈立桅	Suzhou Institute of Nano-Tech and Nano-Bionics, CAS 中国科学院苏州纳 米技术与纳米仿生 研究所	固态电池中的材料与界面研究进展
9	10:55-11:10	Invited: Jun Chen 程君	eTrust Power 力信能源	力信能源全固态电池研究进展
10	11:10-11:25	Invited: Shimou Chen 陈仕谋	Institute of process engineering, CAS 中科院过程工程研 究所	锂金属电池固态电解质构筑及表面微观机制研究
11	11:25-11:40	Invited: Xia Lu 卢侠	Beijing University of Chemical Technology 北京化工大学	Solid rechargeable Li batteries enabled by LATP-based solid electrolyte with artificial buffering layer
12	11:40-11:55	Invited: Wei Liu 刘巍	Shanghai Tech University 上海科技大学	Conformable and Self-Healing Solid State Electrolytes for Stable Lithium Metal Batteries 自修复固体电解质基锂金属电池
13	11:55 -12:05	Oral: Qigao Han 韩奇高	Tianjin University of Technology 天津理工大学	一种具有超高倍率和循环性能的全固态锂硫电池的 构筑
12:05-13:30		Lunch 午餐		

Afternoon, 8 August, 8月8日下午

Session E-5 Chairmen: Dr. Siqu Shi 施思齐, Dr. Shufeng Song 宋树丰				
No. 编号	Time 时间	Speaker 报告人	Affiliation 工作单位	Title 报告题目
1	13:30-13:50	Keynote: Weiping Tang 汤卫平	Shanghai Institute of Space Power-Sources 上海空间电源研究 所	全固态电池制备过程问题浅析
2	13:50-14:05	Invited: Long Zhang 张隆	Yanshan University 燕山大学	Organic-inorganic hybrid solid electrolyte for all-solid-state lithium ion batteries
3	14:05-14:20	Invited: Hongtao Liu 刘洪涛	Central South University 中南大学	A flexible polycation-type solid conducting co-polymer film electrolyte 聚阳离子型柔性导电共聚物薄膜电解质

4	14:20-14:35	Invited: Lianqi Zhang 张联齐	Tianjin University of Technology 天津理工大学	Design, synthesis and electrochemical performance investigation of various core-shell structured Ni-rich layered cathode materials
5	14:35-14:45	Oral: Xianxiang Zeng 曾宪祥	Hunan Agricultural University 湖南农业大学	渗流型准固体电解质的制备及性能研究
6	14:45-14:55	Oral: Xianwei Guo	Beijing University of Technology 北京工业大学	A novel amorphous polyether polymer electrolyte for solid-state lithium batteries
14:55-15:10		Tea Break 茶歇		
Session E-6 Chairmen: Dr. Weiping Tang 汤卫平, Dr. Lianqi Zhang 张联齐				
7	15:10-15:30	Keynote: Naoaki Kuwata	Tohoku University	Thin-film solid-state batteries prepared by high-rate PLD and diffusion coefficient in the battery materials
8	15:30-15:45	Invited: Siqi Shi 施思齐	Shanghai University 上海大学	关于固体电解质中传导离子运输物理的一点浅显认识
9	15:45-16:00	Invited: Chang Yu 余创	Delft University of Technology 代尔夫特理工大学	Unravel Li-ion Transport and capacity mechanism in $\text{Li}_6\text{PS}_5\text{X}$ (X=Cl, Br)
10	16:00-16:15	Invited: Shufeng Song 宋树丰	Chongqing University 重庆大学	Preparation, structure and properties of garnet type solid electrolytes
11	16:15-16:25	Oral: Zheyi Zhou 邹喆义	Shanghai University 上海大学	Na^+ 在 $\text{Na}_3\text{Zr}_2\text{Si}_2\text{PO}_{12}$ 中的协同运输机制研究
12	16:25-16:35	Oral: Zhengliang Gong 龚正良	Xiamen University 厦门大学	复合固体电解质在锂硫电池中的性能研究
13	16:35-16:45	Oral: Jun-ichi Hata	Tokyo Institute of Technology	ZrO _{2-x} surface modification on LiCoO ₂ film using arc plasma deposition and improving lithium (de-)intercalation properties in high voltage operation
14	16:45-16:55	Oral: Arunkumar Dorai	Tohoku University	Fluoride ion dynamics in PbSnF ₄ measured by NMR and ionic conductivity
15	16:55-17:05	Oral: Pengcheng Zhao 赵鹏程	Research Institute of Chemical Defense 防化研究院	Garnet-like solid-state electrolytes enhanced by self-consolidation strategy
16	17:05-17:15	Oral: Xiayin Yao 姚霞银	Ningbo Institute of Industrial Technonlgy, CAS 宁波材料所	Sulfide electrolytes for all-solid-state rechargeable batteries
17	17:15-17:25	Oral: Dong Xu 徐东	Shanghai Institute of Ceramics, CAS 中科院上海硅酸盐 研究所	Sustainable polysaccharide-based gel polymer electrolyte for lithium batteries

Session F: Lithium-ion Conductors and Lithium-ion Batteries

锂离子导体与锂离子电池分会场

Address: Room 301, South Building of Teaching / 教学南楼 301

Session Chairmen: Dr. Qingyu Li 李庆余 & Dr. Xunlin Yang 杨学林

Morning, 7 August, 8月7日上午

Session F-1				
Chairmen: Dr. Qingyu Li 李庆余, Dr. Yonghong Deng 邓永红				
No. 编号	Time 时间	Speaker 报告人	Affiliation 工作单位	Title 报告题目
1	8:30-8:50	Keynote: Longwei Yin 尹龙卫	Shandong University 山东大学	Rational design on electrodes with enhanced electrochemical reaction kinetics for high energy storage performance
2	8:50-9:10	Keynote: Yonghong Deng 邓永红	South University of Science and Technology of China 南方科技大学	Spontaneous Repairing Liquid Metal/Si Nanocomposite as a Smart Conductive-Additive-Free Anode for Lithium-ion Battery
3	9:10-9:30	Keynote: Liping He 何莉萍	Hunan University 湖南大学	Self-assembled LiFePO ₄ /MWCNTs nanocomposite by using risedronic acid as phosphorus source
4	9:30-9:45	Invited: Xiqian Yu 禹习谦	Institute of Physics, CAS 中科院物理所	锂离子电池高容量层状氧化物正极材料晶格氧离子电荷补偿机制研究
5	9:45-10:00	Invited: Shaohua Guo 郭少华	Nanjing University 南京大学	高比能二次电池用层状正极材料研究
6	10:00-10:10	Oral: Qiaobao Zhang 张桥保	Xiamen University 厦门大学	Self-supported hollow copper silicon germanium nanowire arrays for high-performance lithium ion batteries
7	10:10-10:20	Oral: Shibing Ni 倪世兵	China Three Gorges University 三峡大学	Li ₃ VO ₄ 负极材料研究
10:20-10:40		Tea Break /茶歇		
Session F-2				
Chairmen: Dr. Chengxin Wang 王成新, Dr. Anjiang Tang 唐安江				
8	10:40-11:00	Keynote: Xianfeng Li 李先锋	Dalian Institute of Chemical Physics, CAS 中科院大连化学物理所	离子传导膜在二次电池储能系统中的应用
9	11:00-11:15	Invited: Qingyu Li 李庆余	Guangxi Normal University 广西师范大学	基于锂离子电池的新能源船舶

10	11:15-11:30	Invited: Feng Lin 林锋	Virginia Polytechnic University 弗吉尼亚理工大学	Understanding multiscale chemical and phase transformations in layered cathode materials
11	11:30-11:45	Invited: Jia Xie 谢佳	Huazhong University of Science and Technology 华中科技大学	基于天然高分子的储能材料及器件
12	11:45-11:55	Invited: Huiqiao Li 李会巧	Huazhong University of Science and technology 华中科技大学	高比能电池材料的结构与性能调控
13	11:55-12:10	Invited: Quan Kuang 邝泉	South China University of Technology 华南理工大学	新型高能量密度锂离子电池材料的理性设计和性能研究
14	12:10-12:20	Oral: Rui Wang 汪锐	China University of Geosciences (Wuhan) 中国地质大学 (武汉)	阳离子无序岩盐结构 $\text{Li}_{1.25}\text{Nb}_{0.25}\text{Mn}_{0.5}\text{O}_2$ 材料动力学与输运性质研究
12:20-13:30		Lunch 午餐		

Morning, 8 August, 8月8日上午

Session F-3				
Chairmen: Dr. Longwei Yin 尹龙卫, Dr. Xianluo Hu, 胡先罗				
No. 编号	Time 时间	Speaker 报告人	Affiliation 工作单位	Title 报告题目
1	8:30-8:50	Keynote: Chengxin Wang 王成新	Sun Yat-sen University 中山大学	高首效锂离子电池负极材料
2	8:50-9:10	Keynote: Xianluo Hu 胡先罗	Huazhong University of Science and Technology 华中科技大学	电化学储能三维微纳结构电极与隔膜材料
3	9:10-9:25	Invited: Liang Zhou 周亮	Wuhan University of Technology 武汉理工大学	Silicon oxides: a promising family of high-capacity anode materials
4	9:25-9:40	Invited: Yongming Sun 孙永明	Huazhong University of Science and Technology 华中科技大学	Cathode prelithiation additives for LIBs

5	9:40-9:55	Invited: Jiexi Wang 王接喜	Central South University 中南大学	Construction of amorphous/crystal composite phases and ionic/electronic conductive interface to improve the electrochemical performance of silicon anode
6	9:55-10:10	Invited: Yanhong Wang	Institute of Process Engineering, CAS 中科院过程工程所	Synthesis of nanocrystalline silicon from metallurgical-grade silicon via solvothermal reaction as high performance anodes for lithium ion batteries
10:10-10:30		Tea Break 茶歇		
Session F-4				
Chairmen: Dr. Xiaogang Zhang 张校刚, Dr. Chunwen Sun 孙春文				
7	10:30-10:50	Keynote: Honghe Zheng 郑洪河	School of Energy, Soochow University 苏州大学能源学院	锂离子电池硅负极的系统优化与应用
8	10:50-11:10	Keynote: Dingguo Xia 夏定国	Peking University 北京大学	富锂正极材料研究进展的三个层面分析
9	11:10-11:25	Invited: Xueping Gao 高学平	Nankai University 南开大学	锂离子电池用氧化物正极材料研究
10	11:25-11:40	Invited: Danni Lei 雷丹妮	Graduate School at Shenzhen, Tsinghua University 清华大学深圳研究生院	氧化铝纳米线的超低成本制备及其在锂离子电池中的应用
11	11:40-11:55	Invited: Renzong Hu 胡仁宗	South China University of Technology 华南理工大学	储锂 SnO ₂ 负极材料转化反应的可逆性调控
12	11:55-12:05	Oral: Keita Kobayashi	Ritsumeikan University	Inhomogeneous charge-discharge behavior depending on electrode thickness in Li ₄ Ti ₅ O ₁₂
13	12:05-12:15	Oral: Yong Liu 柳勇	Henan University of Science and Technology 河南科技大学	Graphene-induced growth of Sb ₂ WO ₆ as anode for LIBs
12:15-13:30		Lunch 午餐		

Afternoon, 8 August, 8 月 8 日下午

Session F-5				
Chairmen: Dr. M.V. Reddy, Dr. Jong-Sook Lee				
No. 编号	Time 时间	Speaker 报告人	Affiliation 工作单位	Title 报告题目
1	13:30-13:50	Keynote: Jingying Xie 解晶莹	Shanghai Institute of Space Power-Sources 上海空间电源研究 所	高比能电池关键材料研究
2	13:50-14:05	Invited: Jiangxuan Song 宋江选	Xi' An Jiaotong University 西安交通大学	双交联功能粘合剂的结构设计及其在锂离子电池 中的应用研究
3	14:05-14:20	Invited: M.V. Reddy	National University of Singapore	Molten salt synthesis and characterisation of oxide materials
4	14:20-14:30	Oral: Jie Wang 王捷	University of Science and Technology Beijing 北京科技大学	界面调控下层状 MoS ₂ @CNTs/Graphene 纳米结构 的可控生长与性能研究
5	14:30-14:40	Oral: Wujie Ge 葛武杰	Guizhou Institute of Technology 贵州理工学院	Nb ⁵⁺ 掺杂和锂离子导体包覆共修饰 LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ 正极材料
14:40-15:00		Tea Break/茶歇		
Session F-6				
Chairmen: Dr. Jingying Xie 解晶莹, Dr. Zhi Su 粟智				
6	15:00-15:15	Invited: Kaifu Huo 霍开富	Huazhong University of Science and Technology 华中科技大学	High-Performance Conducting Binders and Alloy Anode Materials for Advanced Lithium-Ion Batteries
7	15:15-15:30	Invited: Yongcheng Jin 金永成	Qingdao Institute of Bioenergy Technology, CAS 中科院青岛生物能 源与过程研究所	聚合离子液体基固体聚合物电解质的制备及性能 研究
8	15:30-15:45	Invited: Zhongfang Li 李忠芳	Shandong University of Technology 山东理工大学	聚苯并咪唑类高温、低湿度质子交换膜的制备及性 能提升策略
9	15:45-16:00	Invited: Lijun Fu 付丽君	Nanjing Tech University 南京工业大学	Interfacial properties of electrode materials for energy storage
10	16:00-16:10	Oral: Guoqiang Ma 马国强	Zhejiang Research Institute of Chemical Industry 浙江省化工研究院 有限公司	高性能伪高浓度电解液的研究

11	16: 10-16:20	Oral: K. Yamamoto	Kyoto University	Enhanced lithium ion transportation at the interface between LiFePO ₄ and electrolyte enhanced by surface-nitride treatment
12	16:20-16:30	Oral: Yudai Huang 黄玉代	Xijiang University 新疆大学	Three-dimensional hierarchical porous nitrogen-doped carbon coated Si composite for high performance lithium-ion batteries

Session G: Sodium-ion Conductors and Sodium-ion Batteries

钠离子导体与钠离子电池分会场

Address: First floor meeting room of Yifu Building 逸夫楼一楼会议室

Session Chairmen: Dr. Jinli Qiao 乔锦丽 & Dr. Yuliang Cao 曹余良

Morning, 7 August, 8月7日上午

Session G-1				
Chairmen: Dr. Yanglong Hou 侯仰龙, Dr. Jinli Qiao 乔锦丽				
No. 编号	Time 时间	Speaker 报告人	Affiliation 工作单位	Title 报告题目
1	8:30-8:50	Keynote: Liqiang Mai 麦立强	Wuhan University of Technology 武汉理工大学	碱土金属钒酸盐作为新型钠离子电池负极
2	8:50-9:10	Keynote: Xiulei Ji 纪秀磊	Oregon State university	Some new examples of topochemistry beyond Li-ion for energy storage
3	9:10-9:30	Keynote: J.A. Alonso	Instituto de Ciencia de Materiales de Madrid	Correlation structure-properties in energy-related materials studied by neutron diffraction
4	9:30-9:45	Invited: Yaxiang Lu 陆雅翔	Institute of physics, CAS 中科院物理所	Improving the performance of pitch-derived carbon anode via tuning microstructures and unraveling the sodium storage mechanism in disordered carbon
5	9:45-10:00	Invited: Jiangfeng Ni 倪江锋	Soochow University 苏州大学	用于微型电池的三维有序结构的钠离子电极
6	10:00-10:10	Oral: Rui Luo 罗锐	Beijing Institute of Technology 北京理工大学	P2 相层状过渡金属氧化物正极的储钠机理研 究
7	10:10-10:20	Oral: Da Wang 王达	Shanghai University 上海大学	钒基磷酸盐钠离子电池电极材料的第一性原理 研究
10:20-10:40		Tea Break 茶歇		
Session G-2				
Chairmen: Dr. Liqiang Mai 麦立强, Dr. Yuliang Cao 曹余良				
8	10:40-11:00	Keynote: Yanglong Hou 侯仰龙	Peking University 北京大学	Transition metal selenide nanostructures for sodium ion batteries
9	11:00-11:15	Invited: Wuxing Zhang 张五星	Huazhong University of Science and Technology 华中科技大学	生物质硬碳的储钠性能和储钠机理研究

10	11:15-11:30	Invited: Baihua Qv 瞿佰华	Xiamen University 厦门大学	硫化物碳复合材料在室温钠离子电池负极材料的应用研究
11	11:30-11:45	Invited: Jinkui Feng 冯金奎	Shandong University 山东大学	脱合金法制备高比能锂钠多孔电池材料
12	11:45-11:55	Oral: Chaoqin Wang 王钦超	Fudan University 复旦大学	阴离子掺杂隧道结构 $\text{Na}_{0.66}[\text{Mn}_{0.66}\text{Ti}_{0.34}]\text{O}_{2-x}\text{F}_x$ ($x < 0.1$) 提高储钠动力学和热力学
13	11:55-12:05	Oral: Kai Zhu 朱凯	Harbin Engineering University 哈尔滨工程大学	二维 $\text{Ti}_3\text{C}_2\text{T}_x$ 作为锂/钠离子水系电容电池材料性能研究
14	12:05-12:15	Oral: Minghui Cao 曹明慧	Fudan University 复旦大学	新型 O3 层状正极材料 $\text{Na}_{0.66}\text{Fe}_{1/3}\text{Cr}_{1/3}\text{Ti}_{1/3}\text{O}_2$ 中的 $\text{Cr}_{2.8}^{+}/\text{Cr}_{4.4}^{+}$ 可逆电子转移
12:15-13:30		Lunch 午餐		

Morning, 8 August, 8 月 8 日上午

Session G-3 Chairmen: Dr. Yan Yu 余彦, Dr. Hong Guo 郭洪				
No. 编号	Time 时间	Speaker 报告人	Affiliation 工作单位	Title 报告题目
1	8:30-8:50	Keynote: Chunhua Chen 陈春华	University of Science and Technology of China 中国科学技术大学	Mn-based electrode materials for Li/Na-ion batteries
2	8:50-9:10	Keynote: Yuliang Cao 曹余良	Wuhan University 武汉大学	储钠材料与体系研究
3	9:10-9:25	Invited: Hong Guo 郭洪	Yunnan University 云南大学	N-doped C-encapsulated yolk-shell frame MoSe_2 -C assembled by expanded planes few-layer MoSe_2 for enhanced performance in sodium-ion batteries
4	9:25-9:40	Invited: Jun Liu 刘军	South China University of Technology 华南理工大学	The structure design and electrochemical performance of novel metal-based anodes with high Li/Na-ion storage capacity
5	9:40-9:50	Oral: Meiling Kang 康美玲	Fujian normal University 福建师范大学	醚基电解液衍生超薄 SEI 膜助力实现实用化的钛氧化物储钠负极材料
6	9:50-10:00	Oral: Naiteng Wu 毋乃腾	Luoyang Normal University 洛阳师范学院	$\text{TiO}_2\text{-x@NC}$ “反蛋白石”结构的构建及其赝电容对储锂/钠性能的贡献
7	10:00-10:10	Oral: Weimin Chen 谌伟民	Wuhan Institute of Technology 武汉工程大学	协调表面储钠和嵌入式储钠, 提高硬碳负极的储能性能
10:10-10:40		Tea Break 茶歇		
Session G-4 Chairmen: Dr. Chunhua Chen 陈春华, Dr. Yufeng Zhao 赵玉峰				

8	10:40-11:00	Keynote: Yan Yu 余彦	University of Science and Technology of China 中国科学技术大学	Designing hybrid materials with carbon network to improve the electrochemical performance of Li (Na)-ion batteries
9	11:00-11:15	Invited: Yufeng Zhao 赵玉峰	Yanshan University 燕山大学	N-doping and defective nanographitic domain coupled hard carbon nanoshells for high performance lithium/sodium storage
10	11:15-11:30	Invited: Xunhui Xiong 熊训辉	South China University of Technology 华南理工大学	Nanostructured metal sulfides-based materials for active and durable anode for sodium-ion batteries
11	11:30-11:40	Oral: Suli Chen	Shanghai Jiaotong University 上海交通大学	Plastic Crystal Polymer Electrolyte Containing Anion Acceptors for Room-temperature All-solid-state Sodium-ion Batteries
12	11:40-11:50	Oral: Dandan Zhu	Changchun Institute of Applied, CAS 中科院长春应化所	Concentration effect of ionic liquids on conductivity of Na ⁺ -polymer electrolytes
12:00-13:30		Lunch 午餐		

Session H: Next Generation Batteries

下一代电池分会场

Address: Room 329, South Building of Teaching / 教学南楼 329

Session Chairmen: Dr. Feng Li 李峰 & Dr. Dingguo Xia 夏定国

Morning, 7 August, 8月7日上午

Session H-1				
Chairmen: Dr. Dingguo Xia 夏定国, Dr. Zhongfang Li 李忠芳				
No. 编号	Time 时间	Speaker 报告人	Affiliation 工作单位	Title 报告题目
1	8:30-8:50	Keynote: Feng Li 李峰	Institute of Material Research, CAS 中科院沈阳金属所	碳材料表面固固界面调控及其应用
2	8:50-9:10	Keynote: Jiulin Wang 王久林	Shanghai Jiao Tong University 上海交通大学	S@pPAN 杂化材料中电子离子可能运输机制及调控技术
3	9:10-9:30	Keynote: H. Suzuki	Kyoto University	Electronic structure change of sulfur cathode observed by operando soft X-ray absorption spectroscopy
4	9:30-9:45	Invited: Yongzhu Fu 付永柱	Zhengzhou University 郑州大学	含有固态电解质的锂-有机多硫化物电池
5	9:45-10:00	Invited: Xiao Liang	Hunan University 湖南大学	Li-S batteries: progresses from the cathode to the anode
6	10:00-10:15	Invited: Yuefei Zhang 张跃飞	Beijing University of Technology 北京工业大学	Se@Carbon 纳米线界面 “跳跃相转变”的原位透射电子显微学研究
7	10:15-10:25	Oral: Kai Yuan 袁凯	Nanchang University 南昌大学	二维共轭多孔聚合物及碳基纳米材料用于能源转换与存储
10:25-10:40		Tea Break 茶歇		
Session H-2				
Chairmen: Dr. Feng Li 李峰, Dr. Jiulin Wang 王久林				
8	10:40-11:00	Keynote: Jun Zhou 周军	Huazhong University of Science and Technology 华中科技大学	Energy harvesting from evaporation driven water flow in porous carbon film
9	11:00-11:15	Invited: Zhicong Shi 施志聪	Guangdong University of Technology 广东工业大学	三维微纳米结构复合电池材料
10	11:15-11:30	Invited: Weiqing Yang 杨维清	Southwest Jiaotong University 西南交通大学	面向无线监测的全固态柔性微型超级电容器研究

11	11:30-11:40	Invited: Mingdeng Wei 魏明灯	Fuzhou University 福州大学	分等级结构TiO ₂ -B的合成及其储锂性能的研究
12	11:40-11:50	Oral: Huanwen Wang 王欢文	China University of Geosciences (Wuhan) 中国地质大学 (武汉)	柔性准固态混合电容器
13	11:50-12:00	Oral: Xiong Zhang 张熊	Institute of Electrical Engineering, CAS 中科院电工研究所	MXene 基复合材料在锂离子电容器中的应用研究
14	12:00-12:10	Oral: Guanhua Zhang	Hunan University 湖南大学	Carbon tube arrays supported MOF-derived N-doped carbon bubbles on for flexible high-rate supercapacitors
15	12:10-12:20	Oral: Zhihong Wang 王志红	Harbin Institute of Technology 哈尔滨工业大学	直接火焰法在镍金属表面构筑微纳米多孔结构及其在超级电容器中的应用
12:20-13:30		Lunch 午餐		

Morning, 8 August, 8月8日上午

Session H-3				
Chairmen: Dr. Zongping Shao 邵宗平, Dr. Ruizhi Yang 杨瑞枝				
No. 编号	Time 时间	Speaker 报告人	Affiliation 工作单位	Title 报告题目
1	8:30-8:50	Keynote: Zongping Shao 邵宗平	Nanjing Tech University 南京工业大学	New application of conducting perovskites
2	8:50-9:10	Keynote: Zhangquan Peng 彭章泉	Changchun Institute of Applied Chemistry, CAS 中科院长春应用化学研究所	锂-氧电池中的关键科学问题和技术挑战
3	9:10-9:25	Invited: Chaohe Xu 徐朝和	Chongqing University 重庆大学	高比能锂/锌-空气电池用电催化剂研究
4	9:25-9:40	Invited: Ruizhi Yang 杨瑞枝	Soochow University 苏州大学	多元金属氧化物作为锂-空气电池空气电极催化剂的研究
5	9:40-9:55	Invited: Jinli Qiao 乔锦丽	Donghua University 东华大学	Bifunctional Oxygen Electrode for Primary, Rechargeable and Flexible Zn-Air Batteries
6	9:55-10:05	Oral: Xiaoyi Meng 孟晓义	Beijing Institute of Nanoenergy and Nanosystems, CAS 中科院北京纳米能源与系统研究所	镍铁双氢氧化物/氮磷共掺杂石墨烯复合双功能催化剂用于锌空气电池电极材料研究
7	10:05-10:15	Oral: Aiping Wang 王爱平	Shanghai University 上海大学	氧化还原媒介 LiI 参与的 Li-O ₂ 电池放电产物 LiOH 析氧过程的理论研究

8	10:15-10:25	Oral: Beibei He 贺贝贝	China University of Geosciences 中国地质大学	原子层沉积修饰钙钛矿型催化剂在锂氧电池中的应用
10:25-10:40		Tea Break 茶歇		
Session H-4 Chairmen: Dr. Zhangquan Peng 彭章泉, Dr. Ling Wang 王岭				
9	10:40-11:00	Keynote: Yonggang Wang 王永刚	Fudan University 复旦大学	Organic electrodes-based rechargeable batteries
10	11:00-11:20	Keynote: Yoshitomo Yamaguchi	Ritsumeikan University	Electrochemical characteristics of FePO ₄ -carbon composite as calcium hosts
11	11:20-11:35	Invited: Chilin Li 李驰麟	Shanghai Institute of Ceramics, CAS 中科院上海硅酸盐所	Kinetically modified Mg-polysulfide and Mg-organic batteries benefitting from Mg-Li dual-salt electrolyte
12	11:35-11:50	Invited: Yingjin Wei 魏英进	Jilin University 吉林大学	有机分子原位插层反应对VS ₂ 锂镁双盐电池电化学性能的影响
13	11:50-12:05	Invited: Yusuke Yamaguchi	Ritsumeikan University	Defective FePO ₄ -carbon composite as magnesium secondary battery cathode
14	12:05-12:15	Oral: Toshinari Koketsu	Technical University of Berlin	The role of cationic vacancies in fluorinated/hydroxylated anatase for Mg and Al-ion intercalation
15	12:15-12:25	Oral: Qiang Pang	Jilin University 吉林大学	H ₂ V ₃ O ₈ nanowire/graphene electrodes for aqueous zinc-ion batteries with ultrahigh rate capability and large capacity
12:25-13:30		Lunch 午餐		

Afternoon, 8 August, 8月8日下午

Session H-5 Chairmen: Dr. Yonggang Wang 王永刚, Dr. Suqin Liu 刘素琴				
No. 编号	Time 时间	Speaker 报告人	Affiliation 工作单位	Title 报告题目
1	13:30-13:50	Keynote: Jingze Li 李晶泽	University of Electronic Science and Technology of China 电子科技大学	金属锂负极的表面/体相的改性研究
2	13:50-14:10	keynote: Nobuyuki Imanishi	Mie University	SEI on Lithium Metal Anode in Mixed-Salt System
3	14:10-14:25	Invited: Xinhui Xia 夏新辉	Zhengjiang University 浙江大学	自修复液态钠钾合金的构建及其储能应用
4	14:25-14:40	Invited: Hongfa Xia 项宏发	Hefei University of Technology 合肥工业大学	基于电解液优化的锂金属保护研究

5	14:40-14:55	Invited: Gang Cheng	Wildcat Discovery Technologies	Engineering lithium metal surface to enable long-term cycling with carbonate-based electrolytes
14:55-15:10		Tea Break 茶歇		
Session H-6 Chairmen: Dr. Yingjin Wei 魏英进, Dr. Run Liu 刘润				
6	15:10-15:25	Invited: Liping Wang	University of Electronic Science and Technology 电子科技大学	2D materials for K ion batteries in different electrolyte systems
7	15:25-15:40	Invited: Hao Jiang 江浩	East China University of Science and Technology 华东理工大学	纳米空间限域合成新型复合电极材料及储能机制
8	15:40-15:55	Invited: Ruiping Liu 刘瑞平	China University of Mining and Technology 中国矿业大学	PEO 基有机/无机复合固态电解质及其电化学性能
9	15:55-16:10	Invited: Jinping Liu 刘金平	Wuhan University of Technology 武汉理工大学	阵列储能材料与一体化器件
10	16:10-16:20	Oral: Hongliang Li 李洪亮	Qingdao University 青岛大学	基于生物质前驱物制备多孔碳及碳基复合材料及其作为锂硫电池和锂离子电池电极材料的性能
11	16:20-16:30	Oral: Sheng-Yi Li	CAS 中科院	The protection of artificial solid electrolyte interphase layer for lithium metal anodes
12	16:30-16:40	Oral: Jianing Wang 王佳宁	Shanghai Institute of Ceramics, CAS 中科院上海硅酸盐研究所	Metal-organic-framework-derived N-C-Co film as a shuttle-suppressing interlayer for lithium sulfur batteries

Journal Editor Session Agenda, 期刊编辑特别活动日程安排

Address: Room C201, Sino-French Center / 中法中心 C201

Session Chairmen: Dr. Yunhui Huang 黄云辉

August 8th, Wednesday, 8月8日, 星期三

Chairmen: Dr. Yunhui Huang 黄云辉

Time 时间	Speaker 报告人	Journal 期刊名	Title 报告题目
16:00-16:20	Invited: Fenglin Liao 廖凤麟	<i>Chem</i>	Publishing with Chem from Cell Press
16:20-16:40	Invited: Rose Zhu 朱昌荣	<i>Joule</i>	Energy Research & High Impact Publishing in Joule
16:40-17:00	Invited: Quanhong Yang 杨全红	<i>Energy Storage Materials</i>	Go Ahead with EnSM: Having Dream, Keeping Going and Being Successful!
17:00-17:20	Invited: Muxian Shen 沈睦贤	<i>Advanced Functional Materials</i>	Publishing in Wiley Materials Science Journals
17:20-17:40	Invited: Xiaomin Li 李效民	<i>Journal of Inorganic Materials</i>	Special Issue in Solid-State Ionics
17:40-18:00	Invited: Wenjie Sun 孙文杰	<i>Nature Nanotechnology</i>	How to get published in Nature Nanotechnology

Fifth Day Agenda, August 9th, Thursday 第五天日程安排, 8月9日, 星期四
129 Auditorium, Tongji University 同济大学 129 大礼堂

Session A-4: Plenary lectures, awarding and closing ceremony

Dr. Yunhui Huang 黄云辉

Time 时间	Speaker 报告人	Affiliation 单位	Title 报告题目
8:30-9:00	Plenary: Xiong Wen (David) Lou 楼雄文	Nanyang Technological University	Hollow Nanostructures for Lithium Sulfur/Selenium Batteries
9:00-9:30	Plenary: Hong Li 李泓	Institute of Physics, Chinese Academy of Sciences 中科院物理所	新一代固态电池发展中的固态离子学基础科学问题
9:30-10:00	Plenary: Hitoshi Takamura	Tohoku university	Low-Temperature Operation of MIEC-based Oxygen Permeable Membranes
10:00-11:00	Awarding ceremony 颁奖仪式 Host: Xuejie Huang 黄学杰		
11:00-12:00	Closing ceremony 闭幕式 Host: Zhaoyin Wen 温兆银		