

EEST 2016 Technical Program

	August 16 Tuesday	August 17 Wednesday	August 18 Thursday	August 19 Friday		
8:00-8:15		Registration				
8:15-8:30						
8:30-8:45	Conference preparation	Opening	Plenary 4	Plenary 6		
8:45-9:00						
9:00-9:15		Plenary 1	Plenary 5	Session F		
9:15-9:30						
9:30-9:45		Photo shoot				
9:45-10:00						
10:00-10:15		Coffee break	Coffee break	Coffee break		
10:15-10:30						
10:30-10:45		Plenary 2	Session C	Session G		
10:45-11:00						
11:00-11:15						
11:15-11:30		Plenary 3				
11:30-11:45						
11:45-12:00						
12:00-12:15		<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>		
12:15-12:30						
12:30-12:45						
12:45-13:00						
13:00-13:15	Registration					
13:15-13:30						
13:30-13:45		Session A	Session D	Session H		
13:45-14:00						
14:00-14:15	Workshop "Conversation with Editors"					
14:15-14:30						
14:30-14:45						
14:45-15:00						
15:00-15:15	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>		
15:15-15:30						
15:30-15:45	Workshop "Conversation with Editors"	Session B	Session E	Closing		
15:45-16:00						
16:00-16:15						
16:15-16:30	Workshop wrap-up					
16:30-16:45						
16:45-17:00						
17:00-17:15	Registration					
17:15-17:30						
17:30-17:45		<i>Break</i>	Poster Presentation			
17:45-18:00						
18:00-18:30						
18:30-19:00	<i>Buffet dinner</i>	Banquet	<i>Buffet dinner</i>	<i>Buffet dinner</i>		
19:00-19:30						
19:30-20:00						

Session ID

	August 17					August 18					August 19									
Room	302	303	304	402	403	302	303	304	402	403	302	303	304	402	403					
9:15-9:30											F1-1	F2-1	F3-1	F4-1	F5-1					
9:30-9:45											F1-2	F2-2	F3-2	F4-2	F5-2					
9:45-10:00											F1-3	F2-3	F3-3	F4-3	F5-3					
10:30-10:45						C1-1	C2-1	C3-1	C4-1	C5-1	G1-1	G2-1	G3-1	G4-1	G5-1					
10:45-11:00						C1-2	C2-2	C3-2	C4-2	C5-2	G1-2	G2-2	G3-2	G4-2	G5-2					
11:00-11:15						C1-3	C2-3	C3-3	C4-3	C5-3	G1-3	G2-3	G3-3	G4-3	G5-3					
11:15-11:30						C1-4	C2-4	C3-4	C4-4	C5-4										
11:30-11:45											D1-1	D2-1	D3-1	D4-1	D5-1	H1-1	H2-1	H3-1	H4-1	H5-1
11:45-12:00											D1-2	D2-2	D3-2	D4-2	D5-2	H1-2	H2-2	H3-2	H4-2	H5-2
13:30-13:45	A1-1	A2-1	A3-1	A4-1	A5-1	D1-3	D2-3	D3-3	D4-3	D5-3	H1-4	H2-4	H3-4	H4-4	H5-4					
13:45-14:00	A1-2	A2-2	A3-2	A4-2	A5-2	D1-4	D2-4	D3-4	D4-4	D5-4										
14:00-14:15	A1-3	A2-3	A3-3	A4-3	A5-3	Coffee break					Coffee break									
14:15-14:30	B1-1	B2-1	B3-1	B4-1	B5-1	E1-1	E2-1	E3-1	E4-1	E5-1										
14:30-14:45	B1-2	B2-2	B3-2	B4-2	B5-2	E1-2	E2-2	E3-2	E4-2	E5-2										
14:45-15:00	B1-3	B2-3	B3-3	B4-3	B5-3	E1-3	E2-3	E3-3	E4-3	E5-3										
15:00-15:30	B1-4	B2-4	B3-4	B4-4	B5-4	E1-4	E2-4	E3-4	E4-4	E5-4										
15:30-15:45						E1-5	E2-5	E3-5	E4-5	E5-5										
15:45-16:00						E1-6	E2-6	E3-6	E4-6	E5-6										
16:00-16:15						Poster														
16:15-16:30																				
16:30-16:45						Poster														
16:45-17:00																				
17:00-17:15						Poster														
17:15-17:30																				
17:30-18:00						Poster														
18:00-18:30																				

Plenary Presentations

I plenary presentations take place in 2F Main Hall

ID	Date	Time	Chair: <i>Hasuck KIM</i>		
P1	8/17	09:00-09:45	What are the ultimate limitations of lithium intercalation batteries?	M. Stanley	WHITTINGHAM
ID	Date	Time	Chair: <i>Jiujun Zhang</i>		
P2	8/17	10:30-11:15	Structure Design and Controlled Synthesis of Nanocrystal Electrocatalysts with High Surface Energy and High Activity	Shigang	SUN
ID	Date	Time	Chair: <i>Xianguo Li</i>		
P3	8/17	11:15-12:00	Current Status and Future Development of Catalyst Materials and Catalyst Layers for PEMFCs: An Industrial Perspective	Siyu	YE
ID	Date	Time	Chair: <i>Zhongwei CHEN</i>		
P4	8/18	08:30-09:15	Next Generation Lithium Ion Batteries	Khali	AMINE
ID	Date	Time	Chair: <i>Brant PEPPLEY</i>		
P5	8/18	09:15-10:00	Carbon-based metal-free catalysts for electrocatalysis beyond the ORR	Liming	DAI
ID	Date	Time	Chair: <i>Prashant KAMAT</i>		
P6	8/19	08:30-09:15	Selected Examples of Rechargeable Li/Na Batteries with Micro-nanostructures	Jun	CHEN

Keynote/Oral Presentations

ID	Date	Time	Chair: <i>Hong Yang</i>	Room 302	
A1-1	8/17	13:30-14:00	Composite Membrane For PEMFC Under Low Relative Humidity	Hasuck	KIM
A1-2	8/17	14:00-14:30	Development of Low Cost, Highly Performing and Durable PEM Fuel Cells	Xianguo	LI
A1-3	8/17	14:30-15:00	Better Design and Processing of Electrocatalysts through In-situ Environmental TEM Study	Hong	YANG
ID	Date	Time	Chair: <i>Jingli LUO</i>	Room 303	
A2-1	8/17	13:30-14:00	CO ₂ -derived Syngas and Electricity Cogeneration in Novel Layered Proton-conducting Solid Oxide Fuel Cells	Jingli	LUO
A2-2	8/17	14:00-14:30	Densifying Energy Storage by Regulating Graphene Assembly	Quan-Hong	YANG
A2-3	8/17	14:30-15:00	Chromophore-catalyst Assemblies for Solar Fuels	Kirk S	SCHANZE
ID	Date	Time	Chair: <i>Bingqing WEI</i>	Room 304	
A3-1	8/17	13:30-14:00	Energy Retention and Self-discharge Behavior of Carbon-based Electrochemical Capacitors	Bingqing	WEI
A3-2	8/17	14:00-14:30	Combination of Computational and Experimental Methods to Understand the Fundamentals of Lithium-ion Battery Materials	Siqi	SHI
A3-3	8/17	14:30-15:00	Rechargeable Batteries to Renewable Energy and Conversion	Guoxiu	WANG
ID	Date	Time	Chair: <i>Yuguo Guo</i>	Room 402	
A4-1	8/17	13:30-14:00	Advanced Electrode Materials for Rechargeable Lithium Metal Batteries	Yuguo	GUO
A4-2	8/17	14:00-14:30	Shuttle Effect Free Lithium Sulfur Battery Based on the Ceramic Lithium Ion Conductive Solid Electrolyte	Zhaoyin	WEN
A4-3	8/17	14:30-15:00	Morphology-tuned Synthesis of Na ₃ V ₂ (PO ₄) ₃ for Sodium Ion Batteries: from Particles to Plates	Chuan	WU
ID	Date	Time	Chair: <i>Liangti QU</i>	Room 403	
A5-1	8/17	13:30-14:00	Graphene in Energy-conversion and Storage System	Liangti	QU

A5-2	8/17	14:00-14:30	Next Generation Photovoltaic Materials: Understanding Excited State Chemistry of Organic Lead Halide Perovskites	Prashant	KAMAT
A5-3	8/17	14:30-15:00	Electrochemical Mechanism Study of High Performance Li Battery Devices	Chenglin	YAN
ID	Date	Time	<i>Chair: Changming Li, Shuangyin WANG</i>	Room 302	
B1-1	8/17	15:30-16:00	Soft To Architect Hard for Efficient Energy Conversion Systems	Changming	LI
B1-2	8/17	16:00-16:30	Plasma Technology for The Design of Electrocatalysts	Shuangyin	WANG
B1-3	8/17	16:30-17:00	Advanced Characterization of Interface/Interphase in Electrochemical Energy Conversion and Storage	Yuyan	SHAO
B1-4	8/17	17:00-17:30	Integrating Renewable Power into Fossil Energy System by Novel Elevated Temperature CO ₂ Separation and Electrochemical Conversion Process	Yixiang	SHI
ID	Date	Time	<i>Chair: Chao WANG, Minhua Shao</i>	Room 303	
B2-1	8/17	15:30-16:00	Highly Active Cu Nanowires for CO ₂ and CO Reduction	Chao	WANG
B2-2	8/17	16:00-16:30	Development of Integrated Nanostructures for the Cathodes of Lithium-Sulfur Batteries	Yanglong	HOU
B2-3	8/17	16:30-17:00	Formation Mechanism of 10 nm Pt-Ni Octahedra as Electrocatalysts for Oxygen Reduction Reaction	Minhua	SHAO
B2-4	8/17	17:00-17:30	Estimation of the Electrochemical Performance by Random Simulation Methods In Mesoscale	Aijun	LI
ID	Date	Time	<i>Chair: Lin GU, Yong YANG</i>	Room 304	
B3-1	8/17	15:30-16:00	Electrochemical Reactions at Nanoscale	Reza	SHAHBAZIAN-YASSAR
B3-2	8/17	16:00-16:30	Atomic-Scale Structure of Electrode Materials under Different Electrochemical State in Rechargeable Batteries	Lin	GU
B3-3	8/17	16:30-17:00	Understanding Electrochemical Reaction Mechanism in Li/Na Ion Batteries	Yong	YANG
B3-4	8/17	17:00-17:30	Fiber-shaped Energy Harvesting and Storage Devices	Huisheng	PENG
ID	Date	Time	<i>Chair: Renjie CHEN, Hong-Gang Liao</i>	Room 402	
B4-1	8/17	15:30-16:00	Energy Storage System and Controls for a Distributed Grid and the Future Energy Internet	John	LEMMON
B4-2	8/17	16:00-16:30	Systematic Effect for an Ultralong Cycle Lithium-Sulfur Batteries	Renjie	CHEN
B4-3	8/17	16:30-17:00	In-situ TEM & X-ray Absorption Study of Lithium Sulfur Battery	Hong-Gang	LIAO
B4-4	8/17	17:00-17:30	Towards High-Voltage Aqueous Metal-ion Batteries beyond 1.5 V	Zhaoping	LIU
ID	Date	Time	<i>Chair: Wei XING, Zidong Wei</i>	Room 403	
B5-1	8/17	15:30-16:00	Improved Low PGM Cathode Performance and Durability through Catalyst Layer Design and Application	Radenka	MARIC
B5-2	8/17	16:00-16:30	Highly Efficient ORR Catalyst Based on Nonplatinum Catalysts	Wei	XING
B5-3	8/17	16:30-17:00	Pt-free Catalyst for Oxygen Reduction Reaction in Fuel Cells	Zidong	WEI
B5-4	8/17	17:00-17:30	Detailed Two-dimensional Mechanistic Modelling of SOFC Button Cell with Carbon Deposition Prediction	Eric	CROiset
ID	Date	Time	<i>Chairs: Zhong Jun HOU, Cunman ZHANG</i>	Room 302	
C1-1	8/18	10:30-11:00	The Development of Highly Reliable PEMFC Module for Fuel Cell Vehicle	Zhong Jun	HOU
C1-2	8/18	11:00-11:30	The Development and Opportunity of Hydrogen Infrastructures In China	Cunman	ZHANG

C1-3	8/18	11:30-11:45	High Performance and Durable Gas Diffusion Electrodes for HT-PEMFC	Huaneng	SU
C1-4	8/18	11:45-12:00	In-situ Exsolution of High-active Nano-metal Catalysts and Its Applications in SOFCs	Jianhui	LI
ID	Date	Time	<i>Chairs: Weilin XU, An-hui LU</i>	Room 303	
C2-1	8/18	10:30-11:00	High Performance Non-platinum Oxygen Reduction Electrocatalysts Based on Cheap Carbon Blacks	Weilin	XU
C2-2	8/18	11:00-11:30	Nanodesigned Carbons and Hybrids for Energy Storage	An-hui	LU
C2-3	8/18	11:30-11:45	Noble Metal Nanoparticles for Oxygen Electroreduction: Size, Shape, Ligand and Composition Effects	Zhenghua	TANG
C2-4	8/18	11:45-12:00	Tuning Hierarchical Porous Carbons for Studying Electrochemical Conversion	Ming	ZHOU
ID	Date	Time	<i>Chairs: Brant PEPPLEY, Yanguang LI</i>	Room 304	
C3-1	8/18	10:30-11:00	PEM Electrolyser Catalysis Research at Queen's University Canada	Brant	PEPPLEY
C3-2	8/18	11:00-11:30	Engineering Nanostructured Materials for High Performance Electrocatalysts	Yanguang	LI
C3-3	8/18	11:30-11:45	Electric Conductivity of CsH_2PO_4 below and above Its Melting Point under Its Own Vapor Pressure	Aleksey	NIKIFOROV
C3-4	8/18	11:45-12:00	Massively Building Three-Dimensional Graphene Based Materials for Energy Storage Application	Xihong	LU
ID	Date	Time	<i>Chairs: Huamin ZHANG, Mei CAI</i>	Room 402	
C4-1	8/18	10:30-11:00	Recent Progress on Vanadium Flow Battery	Huamin	ZHANG
C4-2	8/18	11:00-11:30	Advanced Electrochemical Energy Storage Systems for Vehicle Electrification	Mei	CAI
C4-3	8/18	11:30-11:45	Air Electrode for the Lithium-oxygen Batteries: Materials and Structure Designs	Jiazhao	WANG
C4-4	8/18	11:45-12:00	Key Materials R&D for Lithium/Sulfur Batteries with High Energy Density	Hongzhang	ZHANG
ID	Date	Time	<i>Chairs: Emilio E BUNEL, Zongping SHAO</i>	Room 403	
C5-1	8/18	10:30-11:00	Energy Storage Initiative at Argonne National Laboratory	Emilio E	BUNEL
C5-2	8/18	11:00-11:30	Perovskite Oxides for Oxygen Electrocatalysis	Zongping	SHAO
C5-3	8/18	11:30-11:45	Degradation Mechanism of Hydrocarbon Ion Exchange Membranes under Vanadium Flow Battery Medium	Xianfeng	LI
C5-4	8/18	11:45-12:00	Green Fabrication of 3D Graphene Nanostructure and Its Application for Electrochemical Sensing	Xuan	ZHANG
ID	Date	Time	<i>Chairs: Junliang ZHANG, Shichun MU</i>	Room 302	
D1-1	8/18	13:30-14:00	Study on Structure Design of PEMFC Cathode with Ultra-low Pt Loading and Its Electrocatalysts	Junliang	ZHANG
D1-2	8/18	14:00-14:30	Improving Pt Catalyst Stability for PEM Fuel Cells Through Confinement and Anchoring Effects	Shichun	MU
D1-3	8/18	14:30-14:45	Nano-Structured Metal Nitrides for PEM Fuel Cell Applications	Minghui	YANG
D1-4	8/18	14:45-15:00	Applications of Atomic-resolution Compositional Mapping of Material Surfaces in Energy Catalysis	Jun	LUO
ID	Date	Time	<i>Chairs: Liqiang MAI, Ru-Shi LIU</i>	Room 303	
D2-1	8/18	13:30-14:00	Nanowire Devices for Electrochemical Energy Storage	Liqiang	MAI
D2-2	8/18	14:00-14:30	Engineered Heterostructure of Si and CoSe_2 or CoS_2 : Promising Photocathodes for Hydrogen Evolution	Ru-Shi	LIU
D2-3	8/18	14:30-14:45	Hierarchically Buckled Sheath-Core Fibers for Superelastic Electronics, Sensors, and Torsional Muscles	Zunfeng	LIU
D2-4	8/18	14:45-15:00	Synthesis of 3D Architected Electrodes Materials Based on Nitrogen Doped Carbon Nanotubes and Their Application in Energy Storage	Hao	LIU

ID	Date	Time	Chairs: Jinlong GONG, Deyang QU	Room 304	
D3-1	8/18	13:30-14:00	Effective Charge Carrier Utilization in Photocatalytic Conversions	Jinlong	GONG
D3-2	8/18	14:00-14:30	Investigation of Lithium Ion Supercapacitors	Deyang	QU
D3-3	8/18	14:30-14:45	Fabrication of Novel High-performance Lithium-ion Hybrid Capacitors	Xingbin	YAN
D3-4	8/18	14:45-15:00	In Situ Fabricate Sponge-like Ni ₃ S ₂ on Ni Foam as Self-supported Supercapacitor Electrode Materials	Jinglei	LEI
ID	Date	Time	Chairs: Qiang ZHANG, Yan YU	Room 402	
D4-1	8/18	13:30-14:00	Materials Concept for Advanced Lithium-sulfur Batteries: The Role of Nanocarbon	Qiang	ZHANG
D4-2	8/18	14:00-14:30	Room-temperature Sodium-ion Batteries: Improving the Rate Capability Using Porous Carbon Networks	Yan	YU
D4-3	8/18	14:30-14:45	The Water Catalysis at Oxygen Cathode of Lithium-oxygen Cells	Fujun	LI
D4-4	8/18	14:45-15:00	Multi-functional Additive for Lithium Sulfur Batteries	Jiulin	WANG
ID	Date	Time	Chairs: Keryn LIAN, Xin WANG	Room 403	
D5-1	8/18	13:30-14:00	Design and Engineer Polyoxometalate-carbon Composite Pseudocapacitive Electrodes	Keryn	LIAN
D5-2	8/18	14:00-14:30	Electroreduction of Carbon Dioxide Towards Hydrocarbons on Modified Copper Electrode	Xin	WANG
D5-3	8/18	14:30-14:45	Comparing the Anti-Poisoning Performances of Graphenes and Nitrogen-Doped Graphenes as Pt Catalysts Supports for Formate Oxidation	Jianshe	WANG
D5-4	8/18	14:45-15:00	Simultaneously Enhanced Capacitance, Rate Capability and Cycleability by Graphene Incorporation into Egg White Derived Active Carbon	Kai	JIANG
ID	Date	Time	Chairs: Shaojun GUO, Shuhui SUN	Room 302	
E1-1	8/18	15:30-16:00	Engineering Nanocrystals for Electrocatalysis	Shaojun	GUO
E1-2	8/18	16:00-16:30	Nanostructured Low-Pt and Pt-free Catalysts for PEM Fuel Cells	Shuhui	SUN
E1-3	8/18	16:30-16:45	CoxOy/CeO ₂ /Reduced Graphene Oxide as A High-Performance Bifunctional Electrocatalyst for the Oxygen Electrode Reactions	Yongjun	FENG
E1-4	8/18	16:45-17:00	Controlled Chemical Transformation Synthesis of Functional Nanomaterials for Electrocatalytic Hydrogen Evolution Reaction	Bing	ZHANG
E1-5	8/18	17:00-17:15	Fe/N Co-Doped Carbon Materials with Controllable Structure as Highly Efficient Electrocatalysts for Oxygen Reduction Reaction	Haiyan	WANG
E1-6	8/18	17:15-17:30	High-performance Direct Methanol Fuel Cells with Precious Metal-free Cathode	Qing	LI
ID	Date	Time	Chairs: Xiaoming SUN, Yi DING	Room 303	
E2-1	8/18	15:30-16:00	Superwetting Nanoarray Electrodes for Gas-involved Electrocatalysis	Xiaoming	SUN
E2-2	8/18	16:00-16:30	Dealloyed Nanoporous Metals for Energy Technologies	Yi	DING
E2-3	8/18	16:30-16:45	Synthesis of Dendritic Platinum- Nickel Nanocrystals for Oxygen Reduction Reaction	Liang	WANG
E2-4	8/18	16:45-17:00	Effect of Electrochemical Anodization on Intercalation-elution Properties of Hybrid Catalytic Nanomaterials	Tolou	SHOKUH FAR
E2-5	8/18	17:00-17:15	3D N-doped Carbon Coated CeO ₂ Nanowires Supported Pt Nanoparticles as Efficient Electrocatalyst for Methanol Oxidation	Yuanyuan	CHU
E2-6	8/18	17:15-17:30	Nanocomposites Based on Doped Graphene as Electrode Materials	Qingli	HAO

ID	Date	Time	<i>Chairs: Jun LU, Jin-Ming CHEN</i>	Room 304	
E3-1	8/18	15:30-16:00	A Lithium-oxygen Battery Based on Lithium Superoxide	Jun	LU
E3-2	8/18	16:00-16:30	High-voltage Cathode Material for Power Lithium Batteries	Jin-Ming	CHEN
E3-3	8/18	16:30-16:45	Electroplating Lithium Ion Batteries	Huigang	ZHANG
E3-4	8/18	16:45-17:00	Highly-Efficient LED Epitaxial Materials and Chips on Unconventional Substrates	Guoqiang	LI
E3-5	8/18	17:00-17:15	In-situ Space-confined Catalysis for Fabricating 3D Mesoporous Graphene	Jian	QIN
E3-6	8/18	17:15-17:30	General Strategy for Fabricating Sandwich-Like Graphene-based Hybrid Films for Highly Reversible Lithium Storage	Xiongwu	ZHONG
ID	Date	Time	<i>Chairs: Zhen ZHOU, Xiulei JI</i>	Room 402	
E4-1	8/18	15:30-16:00	From MCo ₃ Anodes for Li Ion Batteries to Rechargeable Li-Co ₂ Batteries Based on Electrocatalytic Conversion of CO ₂	Zhen	ZHOU
E4-2	8/18	16:00-16:30	Non-graphitic Carbon Anodes for Alkali Metal-ion Batteries beyond Lithium	Xiulei	JI
E4-3	8/18	16:30-16:45	Dualphase Spinel MnCo ₂ O ₄ Nanocrystals with Nitrogen-Doped Reduced Graphene Oxide as An Effective Catalyst for Hybrid Sodium-air Battery	Feng	LIANG
E4-4	8/18	16:45-17:00	Template-engaged Synthesis of 3D Graphene Hollow Nanospheres Supported Palladium-based Networks for Efficient Formic Acid Electro-oxidation	Xiaoyu	QIU
E4-5	8/18	17:00-17:15	Nitrogen-doped Porous Carbon Nanofiber@Carbon Nanotube Composite as Cathodes for Lithium Sulfur Batteries with Excellent Cyclability	Yulin	MA
E4-6	8/18	17:15-17:30	ZIF-67 Derived Hollow Nitrogen Doped Carbon Polyhedron for Superior Sodium Storage	Yijing	WANG
ID	Date	Time	<i>Chairs: Zhenbo WANG, Sang-Il CHOI</i>	Room 403	
E5-1	8/18	15:30-16:00	Effect of Metal Oxide/Carbon Composite as Catalyst Supports on PEMFC	Zhenbo	WANG
E5-2	8/18	16:00-16:30	Novel Platinum-based Nanocrystals with Various Structures and Morphologies for Oxygen Reduction Reaction	Sang-Il	CHOI
E5-3	8/18	16:30-16:45	Application of Graphite Oxide and Functionalized GO in Electrolyte Membrane for High Temperature PEMFCs	Chenxi	XU
E5-4	8/18	16:45-17:00	Graphitic Nitrogens Are Responsible for Oxygen Electroreduction on N-Doped Carbons in Alkaline Electrolyte: Proofs From Activity Attenuation Studies	Ligui	LI
E5-5	8/18	17:00-17:15	To Make Fe-based Catalyst Application for Hydrogen Oxidation Reaction (HOR) in Proton Exchange Membrane Fuel Cell	Jian-Wei	GUO
E5-6	8/18	17:15-17:30	Melamine Polymers Based Fe/N/C Electrocatalysts for Oxygen Reduction Reaction with Superior Activity and Stability in Alkaline Medium	Muhammad	RAUF
ID	Date	Time	<i>Chair: Donghai WANG</i>	Room 302	
F1-1	8/19	9:15-9:30	Shell-layer-controlled Ni(OH) ₂ @Pd Nanoparticles Prepared by Metal Atomic Layer Deposition for Ethanol Electro-oxidation	Yiwu	JIANG
F1-2	8/19	9:30-9:45	Mechanistic Insights on Ternary Ni _{2-x} Co _x P for Hydrogen Evolution and Their Hybrids with Graphene for Overall Water-splitting	Yongquan	QU

F1-3	8/19	9:45-10:00	Controllable Preparation of Transition Metal Oxide Electrode Materials with Enhanced Electrochemical Performances	Weixin	ZHANG
ID	Date	Time	<i>Chair: Jong Hyeok PARK</i>	Room 303	
F2-1	8/19	9:15-9:30	Electroreduction of Carbon Dioxide Using Dual-Film of Metal Hexacyanoferrates Nanoparticles	Rongzhi	CHEN
F2-2	8/19	9:30-9:45	Nano Carbon for Electrochemical Applications: Interesting Morphology Evolution	Yufeng	ZHAO
F2-3	8/19	9:45-10:00	Spontaneous Reduction of H ₂ O ₂ From Titanyl Phthalocyanine Catalysts : A Quantum Chemical Predictions	Jeffery	DE LILE
ID	Date	Time	<i>Chair: Gang CHEN</i>	Room 304	
F3-1	8/19	9:15-9:30	Nitrogen-Doped Ordered Mesoporous Anatase TiO ₂ Nanofibers as Anode Materials for High Performance	Ying	WU
F3-2	8/19	9:30-9:45	Large scale Synthesis of Li ₂ S@Porous Carbon for Lithium-sulfur Batteries by One-Pot Pyrolysis of Lithium Sulfate and Glucose	Ning	WANG
F3-3	8/19	9:45-10:00	Phase Transition Behaviors of Cathode Materials for Li-ion Batteries	Yongning	ZHOU
ID	Date	Time	<i>Chair: Xifei LI</i>	Room 402	
F4-1	8/19	9:15-9:30	Oxygen Electrochemistry in Aprotic Li-O ₂ Batteries	Zhangquan	PENG
F4-2	8/19	9:30-9:45	Electroreduction of Carbon Dioxide Using Dual-Film of Metal Hexacyanoferrates Nanoparticles	Rongzhi	CHEN
F4-3	8/19	9:45-10:00	Facile Synthesis in Deep Euteceic Solvents of PtV Alloy Nanoparticles on Carbon Nanotubes with Enhanced Performance for Methanol Electrooxidation	You-Jun	FAN
ID	Date	Time	<i>Chair: Jin-Song Hu</i>	Room 403	
F5-1	8/19	9:15-9:30	Enhanced Cycleability and Dendrite-Free Lithium Deposition by Adding K ⁺ to the Electrolyte for Lithium Metal Batteries	Yifu	YANG
F5-2	8/19	9:30-9:45	Theoretical and Experimental Investigations on Electrode/Electrolyte Interfacial Properties of Lithium Ion Battery	Lidan	XING
F5-3	8/19	9:45-10:00	Facile Synthesis of Plate-like Hierarchical Cathode Material with {010} Planes for High-rate and Long Cycling Stable Lithium Ion Batteries	Junwei	WU
ID	Date	Time	<i>Chairs: Stefania SPECCHIA, Yujiang SONG</i>	Room 302	
G1-1	8/19	10:30-11:00	Highly Active and Stable Pt-(NbO ₂) _x /MWCNT Catalysts for Oxygen Reduction Reaction in PEMFC	Stefania	SPECCHIA
G1-2	8/19	11:00-11:30	High-performance Electrocatalysts for Polymer Electrolyte Membrane Fuel Cells	Yujiang	SONG
G1-3	8/19	11:30-12:00	Development of Cathodes and Electrolyte for High Performance Lithium-Sulfur Batteries	Donghai	WANG
ID	Date	Time	<i>Chairs: Dingguo XIA, Xianfeng LI</i>	Room 303	
G2-1	8/19	10:30-11:00	Electrocatalysis Activity of Bimetallics for Oxygen Reduction Reaction	Dingguo	XIA
G2-2	8/19	11:00-11:30	The Development of Porous Membranes for Vanadium Flow Battery Application	Xianfeng	LI
G2-3	8/19	11:30-12:00	Unassisted Photoelectrochemical Water Splitting Exceeding 7% Solar to Hydrogen Conversion Efficiency Using Photon Recycling	Jong Hyeok	PARK
ID	Date	Time	<i>Chairs: Hong GUO, Yuping WU</i>	Room 304	
G3-1	8/19	10:30-11:00	Morphology-controlled Construction of Hierarchical Hollow Hybrid SnO ₂ @TiO ₂ Nanocapsules with Outstanding Lithium Storage	Hong	GUO

G3-2	8/19	11:00-11:30	R & D on Advanced Separators for Lithium Ion Batteries	Yuping	WU
G3-3	8/19	11:30-12:00	High-performance Li-ion Batteries through Nanoscale Design and Engineering	Gang	CHEN

ID	Date	Time	<i>Chairs: Zhongwei CHEN, Xiangming HE</i>	Room 402	
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G4-1	8/19	10:30-11:00	Advanced Rechargeable Zinc-air Batteries	Zhongwei	CHEN
G4-2	8/19	11:00-11:30	Phosphorus-based Nano Composite Anode Materials for Lithium-ion Battery	Xiangming	HE
G4-3	8/19	11:30-12:00	Design of Nanocomposites for Lithium (Sodium) Ion Batteries	Xifei	LI

ID	Date	Time	<i>Chairs: Gang LIU, Shijun LIAO</i>	Room 403	
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G5-1	8/19	10:30-11:00	Designing Solar-driven Photocatalysts for Clean Fuels	Gang	LIU
G5-2	8/19	11:00-11:30	Controlled Synthesis of Ultra-thin Platinum Layer on Niobium Cobalt Binary Nitride by Pulse Electrodeposition as a High Performance Catalyst for Oxygen Reduction	Shijun	LIAO
G5-3	8/19	11:30-12:00	Highly Active Non-Precious Metal Electrocatalysts for Oxygen Reduction and Hydrogen Evolution	Jin-Song	HU

ID	Date	Time	<i>Chairs: Liang LI, Haisheng FANG</i>	Room 302	
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H1-1	8/19	13:30-14:00	Applications of Atomic Layer Deposition in Solar Cells	Liang	LI
H1-2	8/19	14:00-14:15	Heterostructures for Solar Hydrogen Generation	Shaohua	SHEN
H1-3	8/19	14:15-14:30	Biotemplated Synthesis of Nitrogen-Enriched Microporous Carbon for Lithium-Sulfur Batteries	Hongbin	ZHAO
H1-4	8/19	14:30-14:45	Highly Active Carbon Nanotube-supported Ru@Pd Core@Shell Nanostructure as an Efficient Electrocatalyst toward Ethanol Oxidation in Alkaline Media	You-Jun	FAN
H1-5	8/19	14:45-15:00			

ID	Date	Time	<i>Chairs: Lin YANG, Yaochun YAO</i>	Room 303	
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H2-1	8/19	13:30-14:00	Controllable Synthesis and Electrocatalytic Activity of Hierarchical Nano-catalysts for Alcohols Oxidation	Lin	YANG
H2-2	8/19	14:00-14:15	Controlled Potassium Nanostructuring of Cobalt and Manganese Oxide Based Electrocatalysts Toward Oxygen Evolution Reaction in Alkaline Media	Stefania	SPECCHIA
H2-3	8/19	14:15-14:30	Enhancing Photoelectrochemical Activity with Three-Dimensional p-CuO/N-ZnO Junction Photocathodes	Fangli	WU
H2-4	8/19	14:30-14:45	Design, Synthesis and Application of Multi-Component Optical Function Materials with New Structure and High Performance	Shun	WANG
H2-5	8/19	14:45-15:00			

ID	Date	Time	<i>Chairs: Jin SUNTIVICH, Feng LIANG</i>	Room 304	
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H3-1	8/19	13:30-14:00	Electrocatalysis on Transition Metal-oxide Films Epitaxially Grown on Single Crystal Substrates	Jin	SUNTIVICH
H3-2	8/19	14:00-14:15	Effects of Cu(I) on Electrorefining of Aluminum From AlCl ₃ -Bmic Ionic Liquid	Cunying	XU
H3-3	8/19	14:15-14:30	A New Supercapative Material Based on Amorphous Barium Nickel Phosphate Nanofibers	Hongxia	WANG
H3-4	8/19	14:30-14:45	Synthesis and Electrochemical Properties of Hollow SnO ₂ Spheres as Anode Materials for Lithium Ion Batteries	Ruiping	LIU
H3-5	8/19	14:45-15:00			

ID	Date	Time	<i>Chairs: George Zheng CHEN, Xiaoyuan ZENG</i>	Room 402	
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H4-1	8/19	13:30-14:00	Are Nickel Hydroxide and Similar Materials Pseudocapacitive?	George Zheng	CHEN
H4-2	8/19	14:00-14:15	Enhanced Electrochemical Supercapacitor Properties by Hierarchical CuS/3D Graphene	Xiaomin	WANG
H4-3	8/19	14:15-14:30	Mesoporous Vanadium Nitride/Carbon Nanocomposites for Flexible Supercapacitors	Kaifu	HUO
H4-4	8/19	14:30-14:45	Nanostructured PtRu/C Catalyst Promoted by Cop as An Efficient and Robust Anode Catalyst in Direct Methanol Fuel Cells	Kui	LI
H4-5	8/19	14:45-15:00			

ID	Date	Time	<i>Chairs: Chunwen SUN, Jie XIAO</i>	Room 403	
H5-1	8/19	13:30-14:00	Anodes for Hydrocarbon-fueled Solid Oxide Fuel Cells	Chunwen	SUN
H5-2	8/19	14:00-14:15	Self-assembled Three-dimensional Ni Foam@PEI/RGO Multilayer Electrode for Highly Efficient Oxygen Evolution	Weiyong	YUAN
H5-3	8/19	14:15-14:30	Electrolysis of Solid PbO to Porous Lead in ChCl-EG Deep Eutectic Solvent	Juanjian	RU
H5-4	8/19	14:30-14:45	Electrocatalytic Reduction of CO ₂ Using Transition Metal Catalysts	Peng	KANG
H5-5	8/19	14:45-15:00			

In alphabetical order of presenter's last name

ID	Date	Time	First name	Last name						
C5-1	8/18	10:30-11:00	Emilio E	BUNEL	H1-1	8/19	13:30-14:00	Liang	LI	
C4-2	8/18	11:00-11:30	Mei	CAI	E5-4	8/18	16:45-17:00	Ligui	LI	
G3-3	8/19	11:30-12:00	Gang	CHEN	E1-6	8/18	17:15-17:30	Qing	LI	
H4-1	8/19	13:30-14:00	George Zheng	CHEN	C5-3	8/18	11:30-11:45	Xianfeng	LI	
E3-2	8/18	16:00-16:30	Jin-Ming	CHEN	G2-2	8/19	11:00-11:30	Xianfeng	LI	
B4-2	8/17	16:00-16:30	Renjie	CHEN	A1-2	8/17	14:00-14:30	Xianguo	LI	
F2-1	8/19	9:15-9:30	Rongzhi	CHEN	G4-3	8/19	11:30-12:00	Xefei	LI	
F4-2	8/19	9:30-9:45	Rongzhi	CHEN	C3-2	8/18	11:00-11:30	Yanguang	LI	
G4-1	8/19	10:30-11:00	Zhongwei	CHEN	D5-1	8/18	13:30-14:00	Keryn	LIAN	
E5-2	8/18	16:00-16:30	Sang-Il	CHOI	E4-3	8/18	16:30-16:45	Feng	LIANG	
E2-5	8/18	17:00-17:15	Yuanyuan	CHU	B4-3	8/17	16:30-17:00	Hong-Gang	LIAO	
B5-4	8/17	17:00-17:30	Eric	CROISSET	G5-2	8/19	11:00-11:30	Shijun	LIAO	
F2-3	8/19	9:45-10:00	Jeffery	DE LILE	G5-1	8/19	10:30-11:00	Gang	LIU	
E2-2	8/18	16:00-16:30	Yi	DING	D2-4	8/18	14:45-15:00	Hao	LIU	
H4-1	8/19	13:30-14:00	Hongjin	FAN	H3-4	8/19	14:30-14:45	Ruiping	LIU	
F4-3	8/19	9:45-10:00	You-Jun	FAN	D2-2	8/18	14:00-14:30	Ru-Shi	LIU	
H1-4	8/19	14:30-14:45	You-Jun	FAN	B4-4	8/17	17:00-17:30	Zhaoping	LIU	
E1-3	8/18	16:30-16:45	Yongjun	FENG	D2-3	8/18	14:30-14:45	Zunfeng	LIU	
D3-1	8/18	13:30-14:00	Jinlong	GONG	C2-2	8/18	11:00-11:30	An-hui	LU	
B3-2	8/17	16:00-16:30	Lin	GU	E3-1	8/18	15:30-16:00	Jun	LU	
G3-1	8/19	10:30-11:00	Hong	GUO	C3-4	8/18	11:45-12:00	Xihong	LU	
E5-5	8/18	17:00-17:15	Jian-Wei	GUO	D2-1	8/19	16:00-16:15	Jingli	LUO	
E1-1	8/18	15:30-16:00	Shaojun	GUO	D1-4	8/18	14:45-15:00	Jun	LUO	
A4-1	8/17	13:30-14:00	Yuguo	GUO	E4-5	8/18	17:00-17:15	Yulin	MA	
E2-6	8/18	17:15-17:30	Qingli	HAO	D2-1	8/18	13:30-14:00	Liqiang	MAI	
G4-2	8/19	11:00-11:30	Xiangming	HE	B5-1	8/17	15:30-16:00	Radenka	MARIC	
B2-2	8/17	16:00-16:30	Yanglong	HOU	D1-2	8/18	14:00-14:30	Shichun	MU	
C1-1	8/18	10:30-11:00	Zong Jun	HOU	C3-3	8/18	11:30-11:45	Aleksey	NIKIFOROV	
G5-3	8/19	11:30-12:00	Jin-Song	HU	G2-3	8/19	11:30-12:00	Jong Hyeok	PARK	
H4-3	8/19	14:15-14:30	Kaifu	HUO	B3-4	8/17	17:00-17:30	Huisheng	PENG	
E4-2	8/18	16:00-16:30	Xiulei	JI	F4-1	8/19	9:15-9:30	Zhangquan	PENG	
D5-4	8/18	14:45-15:00	Kai	JIANG	C3-1	8/18	10:30-11:00	Brant	PEPPLEY	
F1-1	8/19	9:15-9:30	Yiwu	JIANG	E3-5	8/18	17:00-17:15	Jian	QIN	
A5-2	8/17	14:00-14:30	Prashant	KAMAT	E4-4	8/18	16:45-17:00	Xiaoyu	QIU	
H5-4	8/19	14:30-14:45	Peng	KANG	D3-2	8/18	14:00-14:30	Deyang	QU	
A1-1	8/17	13:30-14:00	Hasuck	KIM	A5-1	8/17	13:30-14:00	Liangti	QU	
D3-4	8/18	14:45-15:00	Jinglei	LEI	F1-2	8/19	9:30-9:45	Yongquan	QU	
B4-1	8/17	15:30-16:00	John	LEMMON	E5-6	8/18	17:15-17:30	Muhammad	RAUF	
B2-4	8/17	17:00-17:30	Aijun	LI	H5-3	8/19	14:15-14:30	Juanjian	RU	
B1-1	8/17	15:30-16:00	Changming	LI	A2-3	8/17	14:30-15:00	Kirk S	SCHANZE	
D4-3	8/18	14:30-14:45	Fujun	LI	B3-1	8/17	15:30-16:00	Reza	SHAHBAZIAN-YASSAR	
E3-4	8/18	16:45-17:00	Guoqiang	LI	B2-3	8/17	16:30-17:00	Minhua	SHAO	
C1-4	8/18	11:45-12:00	Jianhui	LI	B1-3	8/17	16:30-17:00	Yuyan	SHAO	
H4-4	8/19	14:30-14:45	Kui	LI	C5-2	8/18	11:00-11:30	Zongping	SHAO	
					H1-2	8/19	14:00-14:15	Shaohua	SHEN	
					A3-2	8/17	14:00-14:30	Siqi	SHI	
					B1-4	8/17	17:00-17:30	Yixiang	SHI	

E2-4	8/18	16:45-17:00	Tolou	SHOKUHFAR	B3-3	8/17	16:30-17:00	Yong	YANG
G1-2	8/19	11:00-11:30	Yujiang	SONG	D4-2	8/18	14:00-14:30	Yan	YU
G1-1	8/19	10:30-11:00	Stefania	SPECCHIA	H5-2	8/19	14:00-14:15	Weiyong	YUAN
H2-2	8/19	14:00-14:15	Stefania	SPECCHIA	E1-4	8/18	16:45-17:00	Bing	ZHANG
C1-3	8/18	11:30-11:45	Huaneng	SU	C1-2	8/18	11:00-11:30	Cunman	ZHANG
H5-1	8/19	13:30-14:00	Chunwen	SUN	C4-4	8/18	11:45-12:00	Hongzhang	ZHANG
E1-2	8/18	16:00-16:30	Shuhui	SUN	C4-1	8/18	10:30-11:00	Huamin	ZHANG
E2-1	8/18	15:30-16:00	Xiaoming	SUN	E3-3	8/18	16:30-16:45	Huigang	ZHANG
H3-1	8/19	13:30-14:00	Jin	SUNTIVICH	D1-1	8/18	13:30-14:00	Junliang	ZHANG
C2-3	8/18	11:30-11:45	Zhenghua	TANG	D4-1	8/18	13:30-14:00	Qiang	ZHANG
B2-1	8/17	15:30-16:00	Chao	WANG	H1-1	8/19	13:30-14:00	Tierui	ZHANG
G1-3	8/19	11:30-12:00	Donghai	WANG	F1-3	8/19	9:45-10:00	Weixin	ZHANG
A3-3	8/17	14:30-15:00	Guoxiu	WANG	C5-4	8/18	11:45-12:00	Xuan	ZHANG
E1-5	8/18	17:00-17:15	Haiyan	WANG	H1-3	8/19	14:15-14:30	Hongbin	ZHAO
H3-3	8/19	14:15-14:30	Hongxia	WANG	F2-2	8/19	9:30-9:45	Yufeng	ZHAO
D5-3	8/18	14:30-14:45	Jianshe	WANG	E3-6	8/18	17:15-17:30	Xiongwu	ZHONG
C4-3	8/18	11:30-11:45	Jiazhao	WANG	C2-4	8/18	11:45-12:00	Ming	ZHOU
D4-4	8/18	14:45-15:00	Jiulin	WANG	H3-2	8/19	16:00-16:15	Yongning	ZHOU
E2-3	8/18	16:30-16:45	Liang	WANG	E4-1	8/18	15:30-16:00	Zhen	ZHOU
F3-2	8/19	9:30-9:45	Ning	WANG					
B1-2	8/17	16:00-16:30	Shuangyin	WANG					
H2-4	8/19	14:30-14:45	Shun	WANG					
H4-2	8/19	14:00-14:15	Xiaomin	WANG					
D5-2	8/18	14:00-14:30	Xin	WANG					
E4-6	8/18	17:15-17:30	Yijing	WANG					
E5-1	8/18	15:30-16:00	Zhenbo	WANG					
A3-1	8/17	13:30-14:00	Bingqing	WEI					
B5-3	8/17	16:30-17:00	Zidong	WEI					
A4-2	8/17	14:00-14:30	Zhaoyin	WEN					
A4-3	8/17	14:30-15:00	Chuan	WU					
H2-3	8/19	14:15-14:30	Fangli	WU					
F5-3	8/19	9:45-10:00	Junwei	WU					
F3-1	8/19	9:15-9:30	Ying	WU					
G3-2	8/19	11:00-11:30	Yuping	WU					
G2-1	8/19	10:30-11:00	Dingguo	XIA					
F5-2	8/19	9:30-9:45	Lidan	XING					
B5-2	8/17	16:00-16:30	Wei	XING					
E5-3	8/18	16:30-16:45	Chenxi	XU					
H3-2	8/19	14:00-14:15	Cunying	XU					
C2-1	8/18	10:30-11:00	Weilin	XU					
A5-3	8/17	14:30-15:00	Chenglin	YAN					
D3-3	8/18	14:30-14:45	Xingbin	YAN					
A1-3	8/17	14:30-15:00	Hong	YANG					
H2-1	8/19	15:30-16:00	Huagui	YANG					
H2-1	8/19	13:30-14:00	Lin	YANG					
D1-3	8/18	14:30-14:45	Minghui	YANG					
A2-2	8/17	14:00-14:30	Quan-Hong	YANG					
F5-1	8/19	9:15-9:30	Yifu	YANG					

Poster Presentations

#	Title	First name	Last name
1	Facile Synthesis of Silver@Carbon Nanocable-supported Noble Metal Nanoparticles as High-Performing Electrocatalyst for Alcohols Oxidation in Direct Alcohols Fuel Cells	Zhengyu	BAI
2	A Highly Efficient Ni-N/C Catalyst Prepared by Pyrolysis of Metal-organic Framework for Oxygen Evolution Reaction	Zhengyu	BAI
3	A Bi-doped $\text{Li}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ Cathode Material with an Enhanced High-rate Capacity and Long Cycle Stability for Lithium Ion Batteries	Yi	CHENG
4	Influence of Flooding on DMFC and DEFC Performance Using Non Noble Catalyst: Alkaline vs Acid Conditions	Ricardo Escudero	CID
5	Effect of Ti^{4+} Doping on Structure and Electrochemical Properties of $\text{Li}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ Cathode Materials	Xumei	CUI
6	A Strategy to Promote the Electrocatalytic Activity of Spinel for Oxygen Reduction by Structure Reversal	Wei	DING
7	Carbon Supported IrM (M = Fe, Ni, Co) Alloy Nanoparticles for the Catalysis of Hydrogen Oxidation in Acidic and Alkaline Medium	Wei	DING
8	Preparation of Platinum Loaded on Multi-spherical Cavity Carbon Modified by Silica with Self-Humidification for Proton Exchange Membrane Fuel Cell	Li	DU
9	N-Doped Meso-Carbons as Efficient Metal-Free Electrocatalysts for Fuel Cells	Li	DU
10	A Versatile Method for Synthesis of High-Quality Transition Metal Dichalcogenide Nanosheets and Their Applications on Sodium-ion Batteries	Chunnian	HE
11	Bioinspired Strategy for Synthesis of Robust Molybdenum Disulfide Nanostructure and Its Applications on Lithium/Sodium Ion Battery Anodes	Chunnian	HE
12	The Role of Cao in Electrolysis of Ilmentie by $\text{CaCl}_2\text{-NaCl}$ Molten Salt	Yixin	HUA
13	TiO_2 -Modified Separator for Enhanced Electrochemical Performance of Lithium-sulfur Batteries	Yaqin	HUANG
14	Polyglutamic Acid as an Advanced Binder for the Sulfur Cathode	Yaqin	HUANG
15	an Enhanced Chromium/Carbon Composite Anode of Lithium-ion Battery	Yaqin	HUANG
16	Electrochemical Corrosion Behavior of Nanosized Copper Electrode in Aqueous Solutions	Yizhong	HUANG
17	Pd-Ni Alloy Nanoparticles Modified Carbon Cloth as Super-performance Electrocatalyst for Hydrogen Evolution Reaction of Water Splitting	Youguo	HUANG
18	Co_3O_4 Nanowires Modified TiO_2 Nanotube Arrays as a Novel Catalyst for Oxygen Evolution Reaction	Youguo	HUANG
19	Peapod-Like Ge/CN_x for High-Rate and Long-Life Li-ion Battery Anodes	Kaifu	HUO
20	Cu Foams: a New Selective Catalyst in Reducing CO_2 to C_2H_4	Sheng Juan	HUO
21	Au Nanoparticles Modified Branched TiO_2 Nanorod Array for Enhanced Photoelectrochemical Water Splitting	Kai	JIANG
22	Bimetallic FeMnO_3 with Self-supported Matrix for Advanced Li-ion Batteries	Lifang	JIAO
23	Preparation of 20 Wt. % $\text{Pt}_{0.5}\text{Pd}_{0.5}/\text{C}$ Nanoelectrocatalysts by Electroless and Their Electrocatalytic Properties	Bingjie	JIN

24	Facile Synthesis of 3-Dimensional Porous NiCo ₂ O ₄ Microsphere as a Promising Anode for Lithium-ion Batteries	Leng	JIN
25	Effect of Silicon Nanoparticles Size on Their Lithium Storage Properties	Junli	KONG
26	Uncovering the Stability Mechanism of Lithium Rich Layered Oxides	Biao	LI
27	Failure Analysis of Lithium-ion Batteries	Hong	LI
28	Investigation on Ion Transport Properties of Inorganic Solid State Electrolyte	Hong	LI
29	the Effect of Nickel on Electroreduction of Cupric Ions At the Ultramicroelectrodes from Concentrated Electrolytes	Lei	LI
30	Insight Into the Effect of CaMnO ₃ Support on the Catalytic Performance of Platinum Catalysts	Li	LI
31	Reasonable Design Anatase/Rutile TiO ₂ Heterostructures to Improve Photoelectrochemical Performance	Liang	LI
32	A Novel Fe/Fe ₃ O ₄ /C Composite as High-Performance Anode Materials for Lithium Ion Batteries	Qingyu	LI
33	Tin Oxide/Graphene Aerogel Nanocomposites with Controlled Crystallinity Harvesting Superior Anode Performance of Energy Storage	Xifei	LI
34	Porous Sulfur/Nitrogen Dual-Doped Graphene Aerogels as a High Capacity Anode for Sodium Ion Batteries	Xifei	LI
35	Reduced Graphene Oxide Encapsulated Vanadium Oxide Enhancing Lithium/Sodium Storage Performance	Xifei	LI
36	Self-supported Metal Oxide Nanoarray on Graphene Film for Flexible Supercapacitor	Xifei	LI
37	Porous NiO Synthesized by Ultrasonic Spray Pyrolysis and Its Application in Lithium-ion Batteries	Xinhai	LI
38	Rapid Synthesis of Nickel-Foam-supported Nanoparticles-Assembled Co ₃ O ₄ Microspheres as Binder-free Anode for Li-ion Batteries	Xinhai	LI
39	Sulfur-doped Graphene Supported PdW Nanoparticles as High Performance Electrocatalyst for Oxygen Reduction Reaction	Yongliang	LI
40	A Newly High Performance Hybrid Sodium-air Battery with Acidic Dual-Electrolyte	Feng	LIANG
41	Enhanced Low-Humidity Performance of a Proton Exchange Membrane Fuel Cell by Developing a Novel Hydrophobic/Hydrophilic Gas Diffusion Layer	Shijun	LIAO
42	Preparation of a Core-shell Structured Catalyst with Nitride Nanoparticles as Core and Their Outstanding Orr Performance	Shijun	LIAO
43	Rapid Microwave-Assisted Solvothermal Synthesis of Shaped Pt-Ni Alloy Nanoparticles as Electrocatalysts for Oxygen Reduction Reaction	Rui	LIN
44	Combustion Synthesized MFe ₂ O ₄ (M= Zn, Co) Nanoparticles as Anode Materials with Excellent Electrochemical Performance for Lithium Ion Batteries	Jiaming	LIU
45	Three-Dimensional Porous Tin Electrode for Electrochemical Reduction of CO ₂	Yuyu	LIU
46	Electrochemical Reduction of CO ₂ by Cu Nanowire	Yuyu	LIU
47	High Capacitance Properties of Porous Polyaniline on a Carbon Fiber Cloth Substrate by Electrochemical Deposition	Jun	MA
48	Preparation and Hydrogen Separation of Ce _{0.05} Sr _{0.95} TiO _{3+x} Doped SrCe _{0.9} Y _{0.1} O _{3-Δ} Dual Phase Hollow Fiber Membrane	Bo	MENG
49	the Effect of Zn Doping on the Hydrogen Permeation Properties of SCY Ceramic Membrane	Bo	MENG
50	Ni- and Mn-codoped Mesoporous Co ₃ O ₄ , an Excellent Catalyst for Rechargeable Zinc-Air Battery	Huan	PANG

51	Hierarchical Zn ₃ V ₃ O ₈ /C Microspheres Assembled by Porous Hollow Nanoplates with Superior Lithium Storage Capabilities	Jian	PEI
52	Fiber-shaped Energy Storage Devices with Multifarious Functions	Huisheng	PENG
53	A Barium Sulfate Nanoparticles Modified Polypropylene Separator for Lithium-ion Battery	Kun	PENG
54	Porous Spinel Cobaltite with Core-shell Architectures as High-Performance Catalysts for Rechargeable Li–O ₂ Batteries	Sheng Jie	PENG
55	MnO ₂ Nanotube-supported Co ₃ O ₄ Nanoparticle and Its Carbon Nanotube Hybrid Material (Co ₃ O ₄ / MnO ₂ -CNTs) as Bi-Functional Cathode Catalysts for Rechargeable Zinc–Air Batteries	Jinli	QIAO
56	Different MnO ₂ Nanotube as Bi-functional Cathode Catalysts for Rechargeable Zinc–air Batteries	Jinli	QIAO
57	Improved SnO ₂ -Sb Based Anode Modified with CNTs and Ce for Methylene Blue Oxidation	Jinli	QIAO
58	a Novel Composite Between MnO ₂ -Nanotubes-supported Fe ₂ O ₃ and Carbon-Nanotubes ((Fe ₂ O ₃ /MnO ₂) _{1/3} -(CNTs) _{1/4}) to Serve as a Durable 3D-Clam-shaped Bifunctional Cathode Catalyst for Rechargeable Zinc–air Battery	Jinli	QIAO
59	Anion Conducting Chitosan/ Poly(Acrylamide-Co-Diallyldimethylammonium Chloride) Membranes for Polymer Electrolyte Membrane Fuel Cells	Jinli	QIAO
60	Effect of Different Nitrogen Sources on the Electrocatalytic Properties of Nitrogen and Sulfur Co-Doped Hierarchically Porous Carbon for Oxygen Reduction Reaction	Jinli	QIAO
61	Oxalic Acid-Pretreated Novel Solid-state Process for Synthesis of LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ Cathode Material	Zhenping	QIU
62	Cycle Performance and Rate Capability of Spherical Lithium Rich Manganese-based Material	Huaifang	SHANG
63	Hollow Porous Hierarchical Structured Li _{1.2} Mn _{0.56} Ni _{0.12} Co _{0.12} O ₂ as a High Performance Cathode Material for Lithium-ion Batteries	Minhua	SHAO
64	Spin-Coated Titania Overlayer Supported on Hematite Nanorods for Efficient Photoelectrochemical Water Splitting	Shaohua	SHEN
65	A Simple Green Approach to Synthesis of Sub-100 Nm TiO ₂ Hollow Nanospheres with Enhanced Photocatalytic Activities	Shaohua	SHEN
66	Design of Two-compartment Electrolysis Cell for CO ₂ Electro-Reduction in N-Methyl Pyrrolidone/Tetrabutylammonium Perchlorate Catholyte	Jin	SHI
67	Electrochemical Modification from PtPdCu Nanowires Arrays to Pine-shaped Nanoflakes with Enhanced Electrocatalytic Performance for Methanol Oxidation	Dachi	YANG
68	PdCo/Pd-Hexacyanocobaltate Hybrid Nanoflowers: Cyanogel-Bridged One-Pot Synthesis and Their Enhanced Catalytic Performance	Yawen	TANG
69	3d Graphene Hollow Nanospheres@Palladium-Networks for Efficient Formic Acid Oxidation	Yawen	TANG
70	In Situ Growth of MnO ₂ Nanospheres on MWCNTs as Cathode Catalysts for Rechargeable Lithium–O ₂ Batteries	Hongqiang	WANG
71	The Perparation and Electrochemical Performance of MoS ₂ /C for Hydrogen Evolution	Hongqiang	WANG
72	Three-Dimensional Nano-Array NiCo ₂ O ₄ /Carbon Cloths for Oxygen Evolution	Hongqiang	WANG
73	Enhanced Cyclic Stability of Spinel LiMn ₂ O ₄ for Lithium-ion Batteries by NiFe ₂ O ₄ Coating	Hongqiang	WANG
74	In Situ-Coating LiNi _{0.5} Mn _{1.5} O ₄ with Li ₉ SiAlO ₈ Solid Electrolyte as Cathode Material for Li-ion Batteries	Hongqiang	WANG
75	Influence of Different Binders on Sulfur-Polyacrylonitrile Composite for Rechargeable Lithium Batteries	Weikun	WANG

76	Improving the Cycling Performance of $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ by Surface Coating with Li_2TiO_3	Zhixing	WANG
77	Controlled Synthesis of Hollow Micro/Meso-Pore Nitrogen-Doped Carbon with Tunable Wall Thickness and Specific Surface Area as Efficient Electrocatalysts for Oxygen Reduction Reaction	Zidong	WEI
78	Rhombus-shaped $\text{Co}(\text{S}_x\text{Se}_{1-x})_2$ Nanorods Arrays with Enhanced Catalytic Properties in Quantum Dot Sensitized Solar Cells	Dapeng	WU
79	Zinc Oxide Rods Assembled from Oriented Aligned Nanoparticles and Their Application in Quantum-Dot Sensitized Solar Cells	Dapeng	WU
80	Hierarchical $\text{NiCo}_2\text{O}_4/\text{MnO}_x$ Hybrid Nanostructures for Water Oxidation	Yucheng	WU
81	Influence of Si^{4+} Doping on the Electrochemical Performances of Layered Manganese-based Lithium-rich Oxides	Dingguo	XIA
82	LiBO_2 Modified $\text{LiNi}_{0.80}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ Cathode Materials to Improve Electrical Properties	Shubiao	XIA
83	Characterization of Symmetrical $\text{SrFe}_{0.75}\text{Mo}_{0.25}\text{O}_{3-\Delta}$ Electrodes in Direct Carbon Solid Oxide Fuel Cells	Jie	XIAO
84	a Strategy for Designing Porous Bimetallic Ag-Pt Nanooctahedra with Enriched Pt Surface and Highly Efficient Electrocatalytic Activity Toward Formic Acid Oxidation	Lin	XU
85	Cyanogel-Derived N-Doped C Nanosheets Immobilizing Pd-P Nanoparticles: One-pot Synthesis and Enhanced Hydrogenation Catalytic Performance	Lin	XU
86	The Temperature Effects on Kinetics of PbO_2 Electrosynthesis Process in Alkaline Bath	Ruidong	XU
87	Fabrication and Electrochemical Characteristics of Novel $\text{MoX}(\text{M}=\text{Mn}, \text{Co})$ -based Cathode Materials for Rechargeable $\text{Li}-\text{O}_2$ Batteries	Shan	XU
88	Co-N/C as an Efficient Bifunctional Non-Precious Metal Catalyst for Oxygen Reduction Reaction and Oxygen Evolution Reaction	Lin	YANG
89	Microstructure Tailoring of Hollow Fiber and its Application in Microtubular SOFC	Naitao	YANG
90	Investigation of EIS for Reversible Solid Oxide Cell (RSOC) Stacks Based on DRT and ADIS Methods	Bo	YU
91	Doped Reduced Graphene Oxide Mounted with IrO_2 Nanoparticles Shows Significantly Enhanced Performance as a Cathode Catalyst for $\text{Li}-\text{O}_2$ Batteries	Xiaoyuan	ZENG
92	Bimodal Highly Ordered Mesostructure Carbon with High Activity for Br_2/Br^- Redox Couple in Bromine Based Batteries	Huamin	ZHANG
93	Proline-Assisted In-situ Synthesis of N-Doped Carbon Nanosheets with Encaged $\text{Fe}_2\text{O}_3@/\text{Fe}_3\text{C}$ Nanoparticles for Lithium-ion Battery Anodes	Jingfei	ZHANG
94	Graphene Nanostructured Scaffolds for Dendrite-free Lithium Metal Anodes	Qiang	ZHANG
95	Dendrite-Free Lithium Deposition Induced by Uniformly Distributed Lithium-ions for Efficient Lithium Metal Batteries	Qiang	ZHANG
96	Monolithic Perovskite Electrocatalyst Achieved by Aqueous Pre-Oxidation for Oxygen Evolution Reaction	Qiang	ZHANG
97	Spatially-Confined Nanosized NIFE LDHS in Graphene Frameworks for Superior OER Catalysis	Qiang	ZHANG
98	Synthesis and Electrochemical Performance of CeO_2 Surface Modification for LiMn_2O_4 At Elevated Temperature	Yannan	ZHANG
99	the Relations Between the Structure of Carbonate-Based Electrolyte and the Electrochemical Performance of Copper Sulfide	Yingjie	ZHANG
100	Oxygen-Deficient NiCo_2O_4 Nanograss Supported on Nickel Foam for Enhanced Performance Supercapacitor Application	Yuefei	ZHANG
101	in Situ Tem Probing the Electrochemo-Mechanical Behaviors of Nano-Battery	Yuefei	ZHANG

102	Fabrication of Metal Structures by Electroless Metal Deposition in Microchannel	Xuechang	ZHOU
103	Synergistic Effect of N, S Co-Doping on Hierarchically Porous Carbon for Use as Anode Materials in Lithium-ion Batteries	Caizhen	ZHU
104	the Electrochemical Property Investigation of N-Doped Carbon Materials Prepared by Ion Implantation	Caizhen	ZHU
105	Formation of CuFe ₂ O ₄ Hollow Nanocubes with Porous Shells as a High-Performance Anode for Lithium-ion Batteries	Caizhen	ZHU
106	Ex-situ and In-situ Analysis of Gas Evolution Behaviour of Lithium Sulfur Battery with High Energy Density	Pengjian	ZUO
107	Improved Electrochemical Performance of Conducting Functionalized Azo-Coated LiCoO ₂ Cathode for Lithium Ion Batteries	Pengjian	ZUO