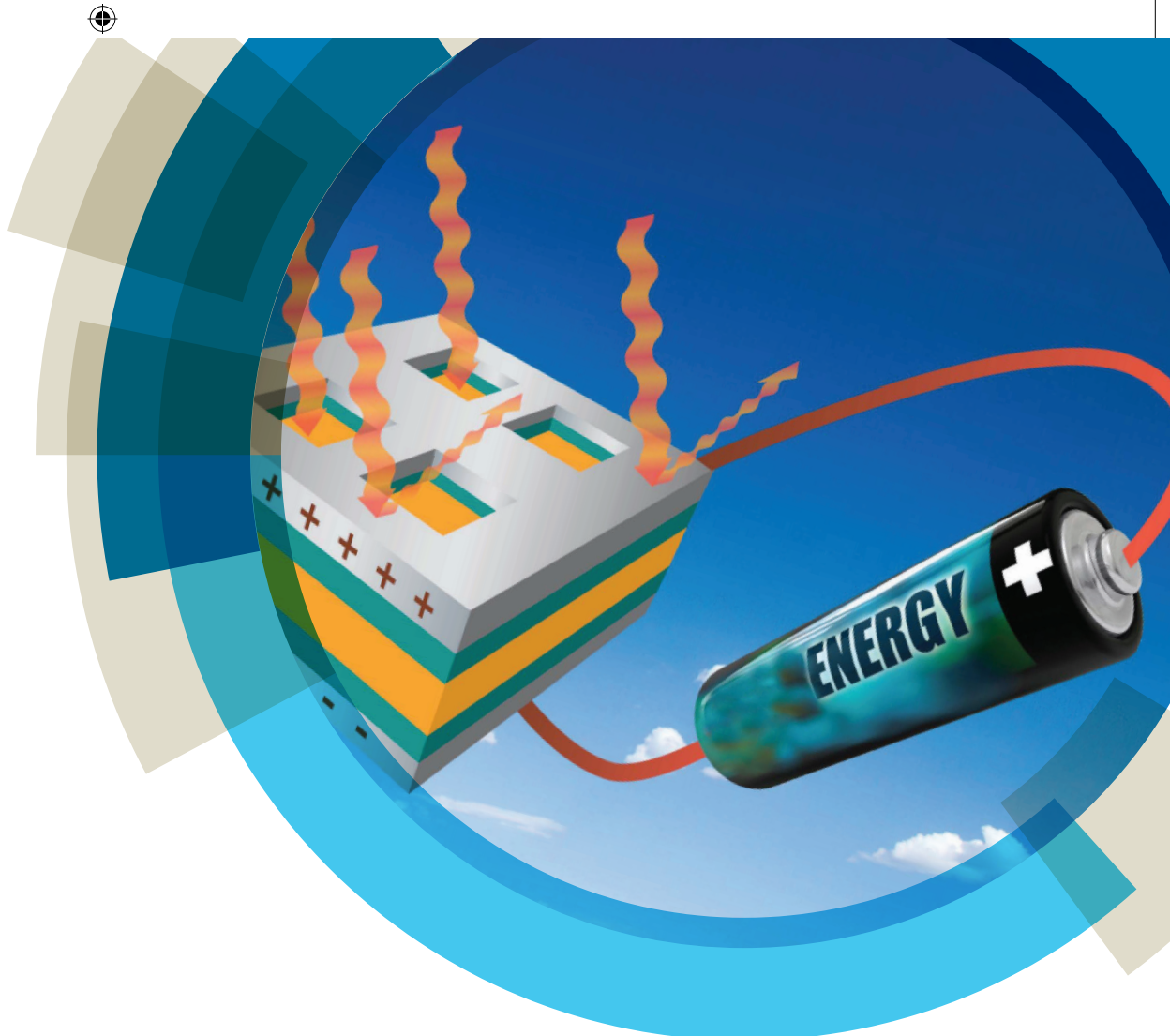
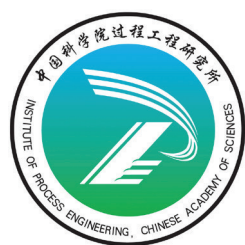




ROYAL SOCIETY OF CHEMISTRY



31 May-1 June 2015, Institute of Process Engineering, Chinese Academy of Sciences (IPE-CAS) Beijing, China

International Symposium on Energy Conversion and Storage

Speakers

Saturday 30 May

Time	Event
14:00 - 18:00	Registration

Sunday 31 May

Time	Event	Session chair
08:40 - 08:50	Welcome and Introduction	
Session 1		
08:50 - 09:20	Semiconductor nanowires for artificial photosynthesis of value-added chemicals Peidong Yang, University of California, Berkeley, USA	Yue Zhang University of Science and Technology Beijing, China
09:20 - 9:50	Rechargeable batteries: Transitioning from insertion-compound electrodes to conversion-reaction electrodes Anumagam Manthiram, University of Texas at Austin, USA	
9:50 - 10:20	Nano-scale p-n junction solids Shouhua Feng, Jilin University, China	
10:20 - 10:35	Coffee break & poster session	
10:35 - 11:05	Low cost energy storage materials and systems Jun Liu, Pacific Northwest National Laboratory, USA	Yi Cui Stanford University, USA
11:05 - 11:25	Application of MOF-based nanostructures in energy Zhiyong Tang, National Center for Nano Science and Technology, China	
11:25 - 11:45	Understanding photoelectrode/electrolyte interfaces for enhanced photovoltages and its applications in photoelectrochemical water splitting Dunwei Wang, Boston College, USA	
11:45 - 12:05	Scalable synthesis of macroscopic assemblies of carbon based nanostructures for energy conversion and storage Shuhong Yu, The University of Science and Technology of China, China	
12:05 - 12:25	Rational materials design for ultrast rechargeable lithium-ion batteries Xiaodong Chen, Nanyang Technological University, Singapore	
12:25 - 13:30	Lunch & poster session	
Session 2A (Big room)		
13:30 - 13:50	Bottom-up approach towards carbon-rich frameworks: an efficient way for understanding deeper the nature of energy storage Linjie Zhi, National Center for Nano Science and Technology, China	David Kisailus University of California at Riverside, USA
13:50 - 14:10	Nanostructured Materials for high-performance Li-ion and Na-ion batteries Hongjin Fan, Nanyang Technological University, Singapore	
14:10 - 14:30	Rational Design and Synthesis of Inorganic Nanomaterials for Energy Storage Applications Lin Guo, Beihang University, China	Xinchen Wang Fuzhou University, China
14:30 - 14:50	Nanostructured cathode materials for energy storage Qingqi(Alex) Yan, Nanyang Technological University, Singapore	
14:50 - 15:10	Hollow-shell metal oxide microspheres for lithium ion battery anodes with high performance Ranbo Yu, University of Science and Technology Beijing, China	
15:10 - 15:30	Reversible formation and decomposition of lithium oxides for high energy density Li ion and Li air batteries with good cyclic retention Yong-Mook Kang, Dongguk University, Korea	
15:30 - 15:50	Programmable assembly of nanocarbon into macroscopic architectures for applications in supercapacitors Zhiqiang Niu, Nankai University, China	
15:50 - 16:05	Coffee break & poster session	

Sunday 31 May continued

16:05 - 16:25	Graphitic carbon nitride polymers for sustainable photoredox catalysis Xinchen Wang, Fuzhou University, China	David Kisailus University of California at Riverside, USA
16:25 - 16:45	Microstructure design of electrode materials for batteries Zhihuan Xu, Nanyang Technological University, Singapore	
16:45 - 17:05	Self-assembly of highly efficient, broadband plasmonic light absorbers for solar steam generation Jia Zhu, Nanjing University, China	Xinchen Wang Fuzhou University, China
17:05 - 17:25	Highly crystalline multimetallic nanoframes with 3D electrocatalytic surfaces Chen Chen, Tsinghua University, China	
17:25 - 17:45	Synthesis of hollow nanostructures for lithium-ion batteries and supercapacitors David Lou, Nanyang Technological University, Singapore	Moon Kim University of Texas at Dallas, USA
17:45 - 18:05	Advanced materials for rechargeable lithium-oxygen batteries Xinbo Zhang, Changchun Institute of Applied Chemistry, CAS, China	
18:05 - 18:25	Surface modulation of oriented TiO ₂ nanowires for water splitting David Kisailus, University of California at Riverside, USA	Zhiyong Fan The Hong Kong University of Science and Technology, Hong Kong
18:25 - 18:45	Performance enhancement of Si anode in lithium ion batteries by structural design Hui Wu, Tsinghua University, China	
18:45 - 19:05	Polymer-assisted metal deposition (PAMD) for high-performance full-solution processed portable energy conversion and storage devices Zijian Zhang, The Hong Kong Polytechnic University, Hong Kong, China	
Session 2B (Small room)		
13:30 - 13:50	Nano-array architecture for electrochemical catalytic reactions Xiaoming Sun, Beijing University of Chemical Technology, China	Moon Kim University of Texas at Dallas, USA
13:50 - 14:10	Atomic resolution microscopy of grain boundaries and defects in CoTe solar cells Moon Kim, University of Texas at Dallas, USA	
14:10 - 14:30	Controllable synthesis of hierarchical structures via diffusion and reaction Yongsheng Han, Institute of Process Engineering, Chinese Academy of Sciences, China	Zhiyong Fan The Hong Kong University of Science and Technology, Hong Kong
14:30 - 14:50	Metal-organic halide perovskite solar cells fabricated with chemical vapor deposition method Zhiyong Fan, The Hong Kong University of Science and Technology, Hong Kong	
14:50 - 15:10	One-Dimensional semiconductor nanowires for solar to fuel and solar to electric conversion Bin Liu, Nanyang Technological University, Singapore	Zhiyong Fan The Hong Kong University of Science and Technology, Hong Kong
15:10 - 15:30	Investigating charge transport in organic semiconductors for efficient optoelectronic devices Huanli Dong, Institute of Chemistry, Chinese Academy of Sciences, China	
15:30 - 15:50	Smart design for electrochemical energy storage: From micro-supercapacitor to lithium/sulfur cells Ting Yu, Nanyang Technological University, Singapore	
15:50 - 16:05	Coffee break & poster session	
16:05 - 16:25	Design of nanoporous carbon spheres for energy conversion and storage Jian Liu, Curtin University, Australia	Zhiyong Fan The Hong Kong University of Science and Technology, Hong Kong
16:25 - 16:45	Fabrication of photocatalyst nanoparticle devices for artificial photosynthesis Young Soo Kang, Sogang University, Korea	
16:45 - 17:05	Advanced inorganic and carbon-based materials for energy conversion applications Haimin Zhang, Institute of Solid State Physics, Chinese Academy of Sciences, China	Zhiyong Fan The Hong Kong University of Science and Technology, Hong Kong
17:05 - 17:25	Reusable colloidal-based soft photomask for rapid nanoscale patterning Johnny C. Ho, City University of Hong Kong, Hong Kong	
17:25 - 17:45	Microbial rhodopsins based hybrid nanosystem for advanced nanoenergy conversion Yan Xiang, Beihang University, China	
17:45 - 18:05	Molybdenum sulfides based electro-catalysts for hydrogen evolution reaction Xin Wang, Nanyang Technological University, Singapore	
18:05 - 18:25	Efficient P-I-N Structured Efficient Perovskite Solar Cells Mingui Wang, Huazhong University of Science and Technology, China	
18:25 - 18:45	Are metal-free pristine carbon nanotubes electrocatalytic active? San Ping Jiang, Curtin University, Australia	
18:45 - 19:05	Perovskite materials for energy conversion Riad Nechache, INRS, Energy Materials Telecommunications Research Centre, Canada	
19:30 - 21:30	Conference Banquet Inorganic Chemistry Frontiers Award: Yi Cui, Shouhua Feng, Zhiyong Tang, Peidong Yang Harrison-Meldola Memorial Prize: Erwin Reisner	

Monday 1 June

Time	Event	Session chair
Session 3		
08:45 - 09:00	Anna Simpson - EES Introduction Energy & Environmental Science Readers' Choice Lecture Prize Presentation Miguel Modestino	Yunqi Liu Institute of Chemistry, Chinese Academy of Sciences, China
09:00 - 09:30	Unconventional water splitting approaches towards scalable solar-hydrogen generators Miguel Modestino, Ecole Polytechnique Fédérale de Lausanne, Switzerland	
09:30 - 10:00	Recent Advances in organic optoelectronics Wei Huang, Nanjing Tech University, China	
10:00 - 10:30	Efficient solar fuel synthesis by highly polymerised C ₃ N ₄ Junwang Tang, University College London, UK	David Lou Nanyang Technological University, Singapore
10:30 - 11:00	Unlocking catalytic potentials of nonprecious materials for energy applications Huijun Zhao, Griffith University, Australia	
11:00 - 11:15	Coffee break & poster session	
11:15 - 11:45	Towards programmable colloidal synthesis Hongyu Chen, Nanyang Technological University, Singapore	Yunqi Liu Institute of Chemistry, Chinese Academy of Sciences, China
11:45 - 12:05	Ultra-thin heteronanostructures as electrocatalysts for energy conversion Xun Wang, Tsinghua University, China	
12:05 - 12:25	Designing semiconductor metal oxides for photoelectrochemical energy conversion Lianzhou Wang, The University of Queensland, Australia	Wenping Hu Institute of Chemistry, Chinese Academy of Sciences, China
12:25 - 12:45	Functional sandwich-type tetrapyrrole rare earth complexes: Materials, devices and applications Jianzhuang Jiang, University of Science and Technology Beijing, China	
12:45 - 14:00	Lunch & poster session	
Session 4		
14:00 - 14:30	Electrochemical tuning of electrocatalysis Yi Cui, Stanford University, USA	Wenping Hu Institute of Chemistry, Chinese Academy of Sciences, China
14:30 - 15:00	Ordered and non-ordered superstructures of colloidal nanocrystals Alexander Eychmüller, Dresden University of Technology, Germany	
15:00 - 15:30	Performance and service behavior of energy conversion devices based one-dimensional zno nanomaterials Yue Zhang, University of Science and Technology Beijing, China	Hongjin Fan Nanyang Technological University, Singapore
15:30 - 16:00	Advanced electrode materials for electrochemical energy storage Yu-Guo Guo, Institute of Chemistry, Chinese Academy of Sciences, China	
16:00 - 16:20	Synergistic effect of polymer and small molecules for high performance ternary organic solar cells Zhiqiang Wei, National Center for Nanoscience and Technology, China	
16:20 - 16:35	Coffee break & poster session	
16:35 - 17:05	Semi-biological hybrid materials for solar fuel synthesis Erwin Reisner, University of Cambridge, UK	Hongjin Fan Nanyang Technological University, Singapore
17:05 - 17:35	Synthesis and applications of novel two-dimensional nanomaterials Hua Zhang, Nanyang Technological University, Singapore	
17:35 - 17:55	Graphene-based materials for electrocatalytic processes Shizhang Qiao, The University of Adelaide, Australia	
17:55 - 18:15	Novel strategies to metal oxide hybrid nanostructures Nicola Pinna, Humboldt-Universität zu Berlin, Germany	
18:15 - 18:35	Poster prize presentation and closing remarks	
18:35	Close	

Key deadlines

Final registration deadline:
8 May 2015

Contact email
ChinaEvents@rsc.org