

Symposium 6: Batteries and Energy Storage

February 24 (TUE)

Time	Program	
	[S6-1] Batteries and Energy Storage	
	Chair: Song, Xuefeng (Shanghai Jiao Tong University)	
13:30-14:00	[2140239] Chemically Modified Graphenes (CMG): A Flexible Approach to the Design of Metal-Ion Battery Electrodes	Singh, Gurpreet (Kansas State University)
14:00-14:20	[2151809] Decorated nanofibers for improved redox-flow batteries	Morante, J. (IREC Catalonia Institute for Energy Research)
14:20-14:40	[2143538] Free-standing SnS ₂ on 3D Graphene foam as a light-weight, binder-free anode for Lithium-ion Battery	Huang, Zhixiang (Singapore University of Technology and Design)
14:40-15:00	[2114155] Zn ₂ GeO ₄ Nanowire as an Anode Material for Lithium-ion Batteries	Kim, Jung Sub (Korea Institute of Science and Technology)
15:00-15:20	[2108461] Superior ion conducting hybrid solid electrolyte for energy storage	Kim, Jae-Kwang (Ulsan National Institute of Science and Technology (UNIST))

Time	Program	
	[S6-2] Batteries and Energy Storage	
	Chair: Singh, Gurpreet (Kansas State University)	
15:50-16:20	[2138088] Yolk-Shell Design Strategy for High-Performance Anode Materials in Lithium-Ion Batteries	Song, Xuefeng (Shanghai Jiao Tong University)
16:20-16:50	[2136227] One-Pot Facile Synthesis of Metal-Oxide/Reduced Graphene Oxide Composite for Supercapacitors	Gao, Lian (School of Materials Science and Engineering)
16:50-17:10	[2151798] Non-aqueous vanadium redox-flow batteries based on new electrolytes	Morante, J. (IREC Catalonia Institute for Energy Research)
17:10-17:30	[2089813] Effect of starting materials on electrochemical behavior of Li _{1.3} Ti _{1.7} Al _{0.3} (PO ₄) ₃ solid electrolyte for Li ion batteries by sol-gel process	Lee, Seoung Soo (Changwon National University)
17:30-17:50	[2086108] ZnBr Flow Battery for Energy Storage Systems	Kim, Dae Sik (Lotte Chemical)

February 25 (WED)

Time	Program	
	[S6-3] Batteries and Energy Storage	
	Chair: Li, Hong (Institute of Physics, Chinese Academy of Sciences)	
09:00-09:30	[e-mail] Challenges of lithium-ion and beyond lithium ion batteries	Scroati, Bruno (Istituto Italiano di Tecnologia)

09:30-10:00	[2114178] Advanced materials science for energy storage & conversion	Aurbach, Doron (Bar Ilan university)
10:00-10:30	[2112619] Understanding and Mitigation of Voltage Fade in High Energy Cathode Materials	Zhang, Ji-Guang (Pacific Northwest National Laboratory)

Time	Program	
	[S6-4] Batteries and Energy Storage	
	Chair: Li, Hong (Institute of Physics, Chinese Academy of Sciences)	
10:50-11:20	[2101975] All Solid State Battery Fabrication with Li ₇ La ₃ Zr ₂ O ₁₂ and LiMO ₃ -LiMO ₂ Cathode and Lithium Metal Anode	Kanamura, Kiyoshi (Tokyo Metropolitan University)
11:20-11:50	[2090784] Development of Lithium-Sulfur Batteries	Wang, Donhai (Penn State University)

Time	Program	
	[S6-5] Batteries and Energy Storage	
	Chair: Aurbach, Doron (Bar Ilan university)	
13:30-14:00	[2142846] Nano-engineering of electrode construction for the high performance lithium air batteries	Nahm, Kee Suk (Chonbuk National University)
14:00-14:30	[2093661] CAS studies on next generation lithium batteries	Li, Hong (Institute of Physics, Chinese Academy of Sciences)
14:30-15:00	[2106734] Intercalated Water for High Performance Layered Cathodes in Magnesium and Sodium Rechargeable Batteries	Choi, Jang Wook (Korea Advanced Institute of Science and Technology (KAIST))
15:00-15:30	[2143595] All-solid-state Lithium Batteries using Li ₇ La ₃ Zr ₂ O ₁₂ as solid electrolyte	Guillon, Olivier (Forschungszentrum Juelich GmbH)

Time	Program	
	[S6-6] Batteries and Energy Storage	
	Chair: Choi, Jang Wook (Korea Advanced Institute of Science and Technology (KAIST))	
15:50-16:20	[2120979] Insight into Sulfur Reactions in Li-S Batteries	Belharouak, Ilias (Qatar Foundation)
16:20-16:50	[2120369] Solvothermal Synthesis and Controlled Growth of LiFePO ₄ Nanostructures	Kisailus, David (University of California at Riverside)