

# 2018 International Conference for Energy Storage and Conversion

2018.07.16-18, Sydney

Mercure Sydney, 818-820 George Street, Sydney 2000.

**16/07/2018**

10:00-18:00 Registration, Mercure Sydney, 818-820 George Street, Sydney 2000

18:00-20:00 Welcome Dinner (TBA)

**17/07/2018** Mercure Sydney, 818-820 George Street

**Session 1: 9:00 – 10:55**

**Chair: Guoxiu Wang**

|               |               |  |  |
|---------------|---------------|--|--|
| 8:00 - 9:00   | Registration  |  |  |
| 9:00 - 9:10   | OPEN Speeches | <ul style="list-style-type: none"><li>• Prof Guoxiu Wang</li><li>• University Delegate</li></ul> |  |
| 9:10 - 9:50   | Lei Jiang     | Technical Institute of Physics and Chemistry, CAS  | Smart Interfacial Materials from Super-Wettability to Binary Cooperative Complementary Systems |
| 9:50 - 10:25  | Hua Zhang     | Nanyang University of Technology   | Synthesis of Novel Phase Nanomaterials for Clean Energy Applications                           |
| 10:25 – 10:55 | Yaoqing Zhang | Nature Publishing Group (Nature Communications)  | Energy storage and conversion: A publisher's perspective                                       |
| 10:55 - 11:15 | Coffee Break  |  |  |

**Session 2: 11:15 – 12:30**

**Chair: Hua Zhang**

|               |             |                                  |   |
|---------------|-------------|----------------------------------|---|
| 11:15 - 11:40 | Liqiang Mai | Wuhan University of Technology   | ONE DIMENSIONAL NANOMATERIALS FOR EMERGING ENERGY STORAGE                 |
| 11:40 - 12:05 | Hongjin Fan | Nanyang University of Technology | Pseudocapacitive Enhanced Rate Performance in Metal-ion Battery Electrode |
| 12:05 - 12:30 | Shaojun Guo | Peking University                | Stain-Controlled Energy Electrocatalysis on Multimetallic Nanomaterials   |
| 12:30 - 14:00 | Lunch       |                                  |   |

**Session 3: 14:00 – 15:55****Chairs: Liqiang Mai & Shaojun Guo**

|               |                     |   |  |
|---------------|---------------------|---|--|
| 14:00 - 14:25 | Yanglong Hou        | Peking University                                 | Transition metal selenide nanoparticles embedded in carbon matrix for extraordinary cycling and rate performance of sodium ion batteries |
| 14:25 - 14:40 | Zhouguang Lu        | Southern University of Science and Technology     | Radical Intermediates Modulation in Organic Electrodes for Sodium-Ion Batteries  |
| 14:40 - 14:55 | Dawei Wang          | University of New South Wales                     | 2D conductive organic-inorganic hybrid with extraordinary volumetric capacitance   |
| 14:55 - 15:10 | Chilin Li           | Shanghai Institute of Ceramics,CAS                | Kinetically Modified Mg-Polysulfide and Mg-Organic Batteries Benefitting from Li Salt Additive Mediation                                 |
| 15:10 - 15:25 | Jia Xie             | Huazhong University of Science and Technology     | Natural Polymer Based Energy Storage Materials and Devices   |
| 15:25 - 15:40 | Sheng Chen          | University of New South Wales                     | Ultrathin metal-organic framework array for efficient electrocatalytic water splitting   |
| 15:40 – 15:55 | Dillip Kumar Mishra | International Institute of Information Technology | ANALYSIS THE APPLICATION OF IOT TO IMPROVE SMART GRID COMMUNICATION AND CONTROL  |
| 15:55 - 16:15 | Coffee Break        |   |  |

**Session 4: 16:15 – 18:05****Chairs: Yanglong Hou & Hongjin Fan**

|               |               |   |   |
|---------------|---------------|---|---|
| 16:15 - 16:40 | Kening Sun    | Beijing Institute of Technology               | High efficient trapping and catalytic conversion strategies to-ward polysulfides for lithium-sulfur batteries |
| 16:40 - 16:55 | Jian Liu      | Dalian Institute of Chemical Physics, CAS     | Sustainable Nanoreactors for Renewable Energy Application   |
| 16:55 - 17:10 | Liang Zhou    | Wuhan University of Technology                | Silicon Oxides: A Promising Family of High-Capacity Anode Materials   |
| 17:10 - 17:25 | Hua Cheng     | Southern University of Science and Technology | Three-dimensional Concentration Gradient Nanostructures as High Performance Electrodes for Supercapacitors    |
| 17:25 – 17:40 | Wenbin Luo    | University of Wollongong                      | Novel air electrode design for lithium oxygen battery   |
| 17:40 – 17:55 | Xinbing Cheng | Tsinghua University                           | Interfacial Chemistry Regulation on Working Li Metal Anode  |
| 17:55 - 18:05 | Closing       |   |   |
| 18:30 - 20:00 | Banquet       |   |   |

**18/07/2018****9:00: Lab tour and discussion**