



# IUMRS-ICEM 2018

AUGUST 19(SUN.) - 24(FRI.), 2018 / DAEJEON, KOREA

<b>Session Title</b>	<b>Na-ion Batteries</b>	<b>Session Code</b>	<b>We-A2</b>
<b>Date and Time</b>	<b>2018-08-22 / 13:30 - 15:30</b>		
<b>Place</b>	<b>Room A</b>		
<b>Session Chair</b>	<b>TBA</b>		

**We-A2-1**

**13:30 - 14:00**

### **[Invited]Improving Stability and Capacity of Sodium-Ion Cathode Materials**

Denis Yu, Jiaolong Zhang, and Bizhe Su  
City Univ. of Hong Kong, China

**We-A2-2**

**14:00 - 14:30**

### **[Invited]Fast Ion Conducting Sulfides for High Rate Performance All-Solid State Na-Ion Batteries**

Stefan Adams  
Nat'l Univ. of Singapore, Singapore

**We-A2-3**

**14:30 - 14:45**

### **Preparation of Hard Carbons Derived from Waste Tea Bag Powder as Anodes for Sodium Ion Battery**

Arenst Andreas Arie<sup>1</sup>, Burak Tekin<sup>2</sup>, and Rezan Demir Cakan<sup>2</sup>  
<sup>1</sup>Parahyangan Catholic Univ., Indonesia, <sup>2</sup>Gebze Technical Univ., Turkey

**We-A2-4**

**14:45 - 15:00**

### **Unfolding the Potassium Ion Storage Mechanism in Anatase TiO<sub>2</sub> Anode Material**

GeonWoo Lee, Young-Hwan Kim, Ha-Kyung Roh, Byung Hun Park, and Kwang Bum Kim  
Yonsei Univ., Korea

**We-A2-5**

**15:00 - 15:15**

### **Facile Synthesis and High Capacitance Performance of Copper Sulfide Nanotubes as Electrode Materials for Symmetric Supercapacitor**

Tingkai Zhao, Wenbo Yang, Xin Zhao, and Tiehu Li  
Northwestern Polytechnical Univ., China

**We-A2-6**

**15:15 - 15:30**

### **Fast Growth of Zn-Fe-C-O Hybrid Nanowires for Electrochemical Supercapacitors**

Yang Liu<sup>1</sup>, Xinyu Zhang<sup>2</sup>, John Xin<sup>3</sup>, and Chao Zhang<sup>1</sup>  
<sup>1</sup>Sun Yat-Sen Univ., China, <sup>2</sup>Auburn Univ., USA, <sup>3</sup>The Hong Kong Polytechnic Univ., China

**We-A2-7**

**15:30 - 15:45**

### **Synthesis of the 3D Porous Carbon-Manganese Oxide Nanocomposite (3D-C@MnO) and It's Supercapacitor Behavior Study**

Rakesh Kumar Sahoo<sup>1</sup>, Arya Das<sup>2</sup>, Saurabh Singh<sup>1</sup>, Saroj K. Singh<sup>2</sup>, Je Moon Yun<sup>1</sup>, Rajaram S. Mane<sup>1</sup>, and Kwang Ho Kim<sup>1</sup>  
<sup>1</sup>Pusan Nat'l Univ., <sup>2</sup>CSIR- Inst. of Minerals and Materials Tech., India