



# IUMRS-ICEM 2018

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

<b>Session Title</b>	<b>Design of Advanced Materials III</b>	<b>Session Code</b>	<b>Th-I1</b>
<b>Date and Time</b>	<b>2018-08-23 / 10:30 - 12:30</b>		
<b>Place</b>	<b>Room I</b>		
<b>Session Chair</b>	<b>TBA</b>		

Th-I1-1

10:30 - 11:00

### **[Invited] Giant Caloric Effects in Fast-Ion Conductors**

Claudio Cazorla  
UNSW Sydney, Australia

Th-I1-2

11:00 - 11:15

### **First-Principles Investigation on the Electronic Structure and Thermodynamic Properties of Equivalent Cation/Anion Doping II-VI Alloy Semiconductors**

Mingkai Li, Debing Long, Yang Cheng, Minghai Luo, Jiakun Zhu, Dongxue Meng, and Yunbin He  
Hubei Univ., China

Th-I1-3

11:15 - 11:30

### **Significant Suppression of Hydrogen Evolution Reaction in Electrochemical N<sub>2</sub> Reduction using Single-Atom Catalysts**

Changhyeok Choi and Yousung Jung  
KAIST, Korea

Th-I1-4

11:30 - 12:00

### **[Invited] Human vs Machine: Deciphering the Structure of Organic- Inorganic Interfaces**

Patrick Rinke  
Aalto Univ., Finland

Th-I1-5

12:00 - 12:15

### **Evaluating Performance Limits of Methane Storage/Separations of Porous Materials using Artificial Neural Network**

Sangwon Lee, Baekjun Kim, and Jihan Kim  
KAIST, Korea