



# IUMRS-ICEM 2018

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

<b>Session Title</b>	<b>Ferro/Piezo II</b>	<b>Session Code</b>	<b>Mo-G2</b>
<b>Date and Time</b>	<b>2018-08-20 / 13:30 - 15:30</b>		
<b>Place</b>	<b>Room G</b>		
<b>Session Chair</b>	<b>TBA</b>		

**Mo-G2-1**

**13:30 - 14:00**

### **[Invited] A New Paradigm for Eco-Friendly Energy Harvesting and Storage Devices**

Seung-Hyun Kim<sup>1</sup>, Sung Sik Won<sup>1,2</sup>, Masami Kawahara<sup>3</sup>, Chang Young Koo<sup>2</sup>, Hee Young Lee<sup>4</sup>, and Angus Kingon<sup>1</sup>

<sup>1</sup>Brown Univ., USA, <sup>2</sup>Quintess, Korea, <sup>3</sup>Kojundo Chemical Laboratory Co. Ltd., Japan, <sup>4</sup>Yeungnam Univ., Korea

**Mo-G2-2**

**14:00 - 14:30**

### **[Invited] Towards Stoichiometric LiNbO<sub>3</sub> Epitaxial Thin Films Grown by DLI-MOCVD**

Vincent Astie<sup>1,2</sup>, Stefania Oliveri<sup>1</sup>, Cyril Millon<sup>1</sup>, Samuel Margueron<sup>3</sup>, Marina Raschetti<sup>1</sup>, Jean-Manuel Decams<sup>2</sup>, Pascal Boulet<sup>4</sup>, and Ausrine Bartasyte<sup>1</sup>

<sup>1</sup>FEMTO-ST Inst., France, <sup>2</sup>AnnealSys, France, <sup>3</sup>LMOPS, France, <sup>4</sup>Jean Lamour Inst., France

**Mo-G2-3**

**14:30 - 15:00**

### **[Invited] Photon Associated Thermal Processing for Piezoelectric Thick Films on Magnetostrictive Metal Substrate**

Jungho Ryu<sup>1</sup>, Haribabu Palneedi<sup>2</sup>, Geon-Tae Hwang<sup>2</sup>, Deepam Maurya<sup>3</sup>, Hyun-Cheol Song<sup>4</sup>, Chong-Yun Kang<sup>4</sup>, and Shashank Priya<sup>5</sup>

<sup>1</sup>Yeungnam Univ., Korea, <sup>2</sup>KIMS, Korea, <sup>3</sup>Virginia Tech., USA, <sup>4</sup>KIST, Korea, <sup>5</sup>Pennsylvania State Univ., USA

**Mo-G2-4**

**15:00 - 15:15**

### **Giant Recoverable Energy Density in Highly Dense Pb(Zr,Ti)O<sub>3</sub> Thick Films Fabricated by Aerosol Deposition Method**

Mahesh Peddigari<sup>1</sup>, Haribabu Palneedi<sup>1</sup>, Kyung Won Lim<sup>1</sup>, Ga-Yeon Kim<sup>1</sup>, Geon Tae Hwang<sup>1</sup>, and Jungho Ryu<sup>2</sup>

<sup>1</sup>KIMS, Korea, <sup>2</sup>Yeungnam Univ., Korea

**Mo-G2-5**

**15:15 - 15:30**

### **Design and Fabrication of Micro-Energy Harvesters based on Multilayered Piezoelectric Thin Films**

Chongsei Yoon, Jae Kwon Ha, and Giwan Yoon  
KAIST, Korea

**Mo-G2-6**

**15:30 - 15:45**

### **Lead-Free Piezoelectric Thin Films for Small-Scale Electronic Device Applications**

Sungsik Won<sup>1,2</sup>, Chang Young Koo<sup>2</sup>, Angus Kingon<sup>1</sup>, and Seung-Hyun Kim<sup>1</sup>

<sup>1</sup>Brown Univ., USA, <sup>2</sup>Quintess Co. Ltd., Korea