

**Room G #107** 13:30-15:30**[Mo-G2] Ferro/Piezo II****Session Chairs:**

Jun Hee Lee (UNIST, Korea),  
Seungbum Hong (KAIST, Korea)

**Mo-G2-1 [Invited]** 13:30-14:00**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 [Invited]** 14:00-14:30**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 [Invited]** 14:30-15:00**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

**Room H #108** 13:30-15:30**[Mo-H2] 3D Device Printing II****Session Chairs:**

Jihoon Kim (Kongju Nat'l Univ., Korea),  
Priyesh More (DIAT, India)

**Mo-H2-1 [Invited]** 13:30-14:00**Triboelectric Nanogenerators Based on a Printing Technology for Self-Powered Electronics**

Sang-Woo Kim  
Sungkyunkwan Univ., Korea

**Mo-H2-2 [Invited]** 14:00-14:30**Flexible Thermoelectric Generators using Organic Materials by Printing Process**

Song Yun Cho  
KRICT, Korea

**Mo-H2-3 [Invited]** 14:30-15:00**High-Performance Piezoelectric Nanogenerators based on Composite Thin Films**

Su Yeon Lee<sup>1</sup>, Eun Jung Lee<sup>1</sup>, Tae Yun Kim<sup>2</sup>, Sang-Woo  
Kim<sup>2</sup>, Beyong-Hwan Ryu<sup>1</sup>, Sunho Jeong<sup>1</sup>, and Youngmin  
Choi<sup>1</sup>  
<sup>1</sup>KRICT, Korea, <sup>2</sup>Sungkyunkwan Univ., Korea

**Mo-H2-4 [Invited]** 15:00-15:30**Customized ZIBs in 1D to 3D Geometries**

Bok Yeop Ahn<sup>1</sup>, Chanhon Kim<sup>2</sup>, Wontae Whang<sup>2</sup>, Yejin  
Jo<sup>3</sup>, Sungmook Jeong<sup>3</sup>, Sunho Jeong<sup>3</sup>, Youngmin Choi<sup>3</sup>,  
Il-Doo Kim<sup>2</sup>, and Jennifer Lewis<sup>1</sup>  
<sup>1</sup>Harvard Univ., USA, <sup>2</sup>KAIST, Korea, <sup>3</sup>KRICT, Korea