

Sat. Sep 26, 2026

Oral Session (Material) | Material

9:55 AM - 10:45 AM JST | 12:55 AM - 1:45 AM UTC
Oral Session Room 2 (Small Hall)

[Session 8] Ceramics/Composite/Single crystal 2

◆ Invited Talk

9:55 AM - 10:15 AM JST | 12:55 AM - 1:15 AM UTC
[4R201] Nanocomposites of PbZrO₃-PbTiO₃ Exhibiting MPB-like Behavior through Nanoclustering Process

DaeYong JEONG¹ (1. Inha University)

10:15 AM - 10:30 AM JST | 1:15 AM - 1:30 AM UTC
[4R202] High-Output Flexible Piezoelectric Energy Harvesters with Structured PMN-PT Composite Active Layers

Hyunhee Kwon^{1,2}, Yunseok Kim², Hoyong Lee³, Miso Kim¹ (1. Korea Advanced Institute of Science and Technology (KAIST), 2. Sungkyunkwan University (SKKU), 3. Ceracomp. Co. Ltd.)

10:30 AM - 10:45 AM JST | 1:30 AM - 1:45 AM UTC
[4R203] Quantitative Tracking of Domain Fraction in Epitaxial PZT Thin Films under Substrate Clamping

Xiaochuan Sun^{1,2}, Ningwei Zhang¹, Sang Hyo Kweon¹, Yue Liu^{2,3}, Isaku Kanno¹ (1. Department of Mechanical Engineering, Kobe University, 2. State Key Lab of Metal Matrix Composites, School of Materials Science and Engineering, Shanghai Jiao Tong University, 3. School of Integrated Circuits, Shanghai Jiao Tong University)

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10:50 AM - 11:40 AM JST | 1:50 AM - 2:40 AM UTC
Oral Session Room 2 (Small Hall)

[Session 9] Ceramics/Composite/Single crystal 3

◆ Invited Talk

10:50 AM - 11:10 AM JST | 1:50 AM - 2:10 AM UTC
[4R204] The Effect of Polarization Methods on the Electromechanical Properties of Relaxor-Based Piezoelectric Single Crystals

Hiroshi Maiwa¹, Osamu Furukawa¹, Yohachi John Yamashita^{1,2} (1. Shonan Institute of Technology, 2. North Carolina State University)

11:10 AM - 11:25 AM JST | 2:10 AM - 2:25 AM UTC
[4R205] [001]-Oriented Texture Engineering in Sm-Doped PIN-PMN-PT Ceramics for High Piezoelectric Performance

Ju-Hee Kim¹, Byeong-Jae Min¹, Xin Liu¹, Ye-Rok Choi¹, Hyunseok Song¹, Seo-Hyun Choi¹, Yeongseo Yoon¹, Hyun-Cheol Song¹ (1. Korea University)

11:25 AM - 11:40 AM JST | 2:25 AM - 2:40 AM UTC

[4R206] Geometry-Dependent Magnetoelectric Antenna Characteristics in Electroplated Ni/PMN-PZT/Ni Tri-layered Composites

Donggeon Baek^{1,2}, Burcu Dursun², Kae Nakamura², Yujun Ji¹, Dongha Yang³, Vincent Tabib³, Isaac Hendrikson³, Arkaprovo Das³, Douglas Werner³, Susan Trolier-McKinstry², Jungho Ryu^{1,4} (1. School of Materials Science and Engineering, Yeungnam University, Gyeongsan 38541, South Korea, 2. Department of Materials Science and Engineering and Materials Research Institute, The Pennsylvania State University, University Park, Pennsylvania 16802, USA, 3. Department of Electrical Engineering, The Pennsylvania State University, University Park, Pennsylvania 16802, USA, 4. Institute of Materials Technology, Yeungnam University, Gyeongsan 38541, South Korea)

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