



IUMRS-ICEM 2018

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

Session Title	Ferro/Piezo III	Session Code	Mo-G3
Date and Time	2018-08-20 / 16:00 - 18:00		
Place	Room G		
Session Chair	TBA		

Mo-G3-1

16:00 - 16:30

[Invited] Quantifying Sensitivity and Hysteresis in Voltage Modulated Nanoelectromechanical Measurements

Roger Proksch¹, Liam Collins², and Olga Ovchinnikova²
¹Asylum Research, USA, ²ORNL, USA

Mo-G3-2

16:30 - 17:00

[Invited] First-Principles Design of Multiferroic Memcapacitors for Neuromorphic Computation

Jun Hee Lee
UNIST, Korea

Mo-G3-3

17:00 - 17:15

Various Piezoelectric PbTiO₃-Dimensional Nanostructure Arrays for High Temperature Applications

Hyun-Cheol Song¹, William T. Reynolds², and Shashank Priya³
¹KIST, Korea, ²Virginia Tech., USA, ³Penn. State Univ., USA

Mo-G3-4

17:15 - 17:30

Aerosol Deposition of Ceramic Dielectric Films on Polymer Substrates for Power Electronics in Electric Drive Vehicles

Balu Balachandran
ANL, USA

Mo-G3-5

17:30 - 17:45

Ionics Technology for Ultra Low-Frequency Mode and High Energy Density Energy Harvesters and Sensors: Beyond Piezoelectrics and Triboelectrics

Chang Kyu Jeong¹ and Yong Zhan²
¹Chonbuk Nat'l Univ., Korea, ²Wuhan Univ. of Tech., China

Mo-G3-6

17:45 - 18:00

Resistive Switching in Amorphous Perovskite Oxides

Soumyadeep Dutta, Navakanta Bhat, and Krupanidhi S.B.
Indian Inst. of Sci., India

Mo-G3-7

18:00 - 18:15

Flexible Piezoelectric Acoustic Sensors for Machine Learning based Speaker Recognition

Jae Hyun Han, Hee Seung Wang, Seongkwang Hong, and Keon Jae Lee
KAIST, Korea