

Room F #106 16:00-18:00**[Mo-F3] Wearable Sensors I****Session Chairs:**

Sei Kwang Hahn (POSTECH, Korea),
Dipak Kumar Goswami (Indian Inst. of Tech.
Kharagpur, India)

Mo-F3-1 [Invited] 16:00-16:30
Hydraulically Amplified Self-Healing Electrostatic (HASEL) Transducers: a New Class of High-Performance Soft Actuators

Christoph Keplinger
Univ. of Colorado Boulder, USA

Mo-F3-2 [Invited] 16:30-17:00**Materials for 2D, 3D and 4D Electronics**

Shlomo Magdassi
Hebrew Univ. of Jerusalem, Israel

Mo-F3-3 [Invited] 17:00-17:30
Ultrathin and Ultra-Conformable Films for (Bio) Electronic Applications

Virgilio Mattoli
Italian Inst. of Tech., Italy

Mo-F3-4 17:30-17:45
Tailoring the Physical and Mechanical Properties of PDMS Elastomer for Stretchable Electronic Applications

Gandla Srinivas¹, Dipti Gupta², and Sunkook Kim¹
¹*Sungkyunkwan Univ., Korea*, ²*IITB, India*

Mo-F3-5 17:45-18:00
Fabrication of Micro-Particle Tactile Sensor via Simple Dry Process

Hyejin Hwang, Wonjeong Suh, and Unyong Jeong
POSTECH, Korea

Room G #107 16:00-18:00**[Mo-G3] Ferro/Piezo III****Session Chairs:**

Honyung Lee (ORNL, USA),
Serge Nakhmanson (Univ. of Connecticut, USA)

Mo-G3-1 [Invited] 16:00-16:30
Quantifying Sensitivity and Hysteresis in Voltage Modulated Nanoelectromechanical Measurements

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

Mo-G3-2 [Invited] 16:30-17:00
First-Principles Design of Multiferroic Memcapacitors for Neuromorphic Computation

Jun Hee Lee
UNIST, Korea

Mo-G3-3 17:00-17:15
Various Piezoelectric PbTiO₃ 3-Dimensional Nanostructure Arrays for High Temperature Applications

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

Mo-G3-4 [Invited] 17:15-17:45
Aerosol Deposition of Ceramic Dielectric Films on Polymer Substrates for Power Electronics in Electric Drive Vehicles

Balu Balachandran
ANL, USA

Mo-G3-5 17:45-18:00
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
¹*Chonbuk Nat'l Univ., Korea*, ²*Wuhan Univ. of Tech., China*

Mo-G3-6 18:00-18:15
Resistive Switching in Amorphous Perovskite Oxides

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

Mo-G3-7 18:15-18:30
Flexible Piezoelectric Acoustic Sensors for Machine Learning based Speaker Recognition

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