

Room D #104 13:30-15:30**[We-D2]** Perovskite Solar Cells I**Session Chair:**

Jun Hong Noh (Korea Univ., Korea)

We-D2-1 [Invited] 13:30-14:00**Oriented Grains with Preferred Low-Angle Grain Boundaries in Halide Perovskite Films by Pressure-Induced Crystallization**Jong Hyeok Park
*Yonsei Univ., Korea***We-D2-2 [Invited]** 14:00-14:30**Rapid Two Step Sequential Process for Large-Scale High-Performance Perovskite Solar Cells**Jangwon Seo
*KRICT, Korea***We-D2-3** 14:30-14:45**Ultra Stable MAPbI₃ Films Fabricated by Chemical Vapor Deposition - Stability Studies and their Applications**S.V.N. Pammi and Soon Gil Yoon
*Chungnam Nat'l Univ., Korea***We-D2-4** 14:45-15:00**A New Approach towards Fusion Energy Conversion Device: Thermoelectric, Piezoelectric Generator and Solar Cell (TPS) Devices**Venkatraju Jella and Soon-Gil Yoon
*Chungnam Nat'l Univ., Korea***Room E #105** 13:30-15:30**[We-E2]** Device Applications of 2D Materials**Session Chairs:**SungWoo Nam (UIUC, USA),
Yang Chai (The Hong Kong Polytechnic Univ., China)**We-E2-1 [Invited]** 13:30-14:00**Novel Graphene Sensors for Wearable Applications**Xiao Liu, Yu-Xing Li, Pang Yu¹, Ning-Qin Deng, Yu-Tao Li, Lu-Qi Tao, Tian He, Yi Yang, and Tian-Ling Ren
*Tsinghua Univ., China***We-E2-2 [Invited]** 14:00-14:30**Graphene and 2D Materials for Display Applications**Ick-Joon Park, Youngjun Woo, Gi Woong Shim, Woonggi Hong, Sang Yoon Yang, and Sung-Yool Choi
*KAIST, Korea***We-E2-3 [Invited]** 14:30-15:00**High Performance Two Dimensional Materials Transistors**Lei Liao
*Hunan Univ., China***We-E2-4** 15:00-15:15**WS₂ Nanosheets-based Gas Sensors**Jae-Hun Kim, Jae-Hyoung Lee, Jin-Young Kim, and Sang Sub Kim
*Inha Univ., Korea***We-E2-5** 15:15-15:30**Physically Switchable Graphene Electro-Optic Modulators for Reconfigurable Optical Multicast**Sungjae Lee^{1,2}, Jin Tae Kim³, and Yong-Won Song^{1,2}
¹KIST, Korea, ²UST, Korea, ³ETRI, Korea