

Room E #105 **8:30-10:30****[Fr-E1]** Growth and Properties of 2D Materials**Session Chairs:**

Hyung Gyu Park (ETH Zurich, Switzerland),
Yu-Lun Chueh (Tsing Hua Univ., Taiwan)

Fr-E1-1 [Invited] **8:30-9:00****Growth of Graphene on Elemental Semiconductor and its Applications**

Jaehyun Lee
Ajou Univ., Korea

Fr-E1-2 **9:00-9:15****Surface Treatment of Black Phosphorus and its Derivative**

Jong-Young Lee, Jong Hun Kim, and Gwan-Hyoung Lee
Yonsei Univ., Korea

Fr-E1-3 **9:15-9:30****Effect of Vacuum Annealing on The Performance of Black Phosphorus Field-Effect Transistors**

Park Hyunik, Janghyuk Kim, Geonyeop Lee, Suhyun Kim, and Jihyun Kim
Korea Univ., Korea

Fr-E1-4 **9:30-9:45****Quasiparticle Properties of the Black Phosphorene**

I.V. Sankar and Euyheon Hwang
Sungkyunkwan Univ., Korea

Fr-E1-5 **9:45-10:00****Ultrathin Active-Matrix Organic-Light Emitting Diode Display Enabled by High Performance Al₂O₃ Capped MoS₂ Field Effect Transistors**

Minwoo Choi and Jong-Hyun Ahn
Yonsei Univ., Korea

Room F #106 **9:15-10:30****[Fr-F1]** Organic and Polymeric Materials for Flexible and Stretchable Electronics III**Session Chairs:**

Sungjune Jung (POSTECH, Korea),
Jeong Gou Son (KIST, Korea)

Fr-F1-1 [Invited] **09:15-09:45****Control of Nucleation and Growth Processes by Surface Energy Modification for Efficient Perovskite Solar Cells**

Inchan Hwang
Kwangwoon Univ., Korea

Fr-F1-2 [Invited] **09:45-10:15****Stretchable and Waterproof Organic Solar Cells**

Kenjiro Fukuda and Takao Someya
Thin-Film Device Laboratory, Japan

Fr-F1-3 **10:15-10:30****Skin-Inspired Hierarchical Polymer Architectures for Ultra-Flexible Triboelectric Sensors**

Minjeong Ha, Seongdong Lim, Youngoh Lee, Sangyun Na, and Hyunhyub Ko
UNIST, Korea