[TS05T5]

Angstrom-Scale 2D Materials for Beyond-Nano Technology 5

Date & Time	July 9(Thu.), 2026 / 15:50–17:50
Place	Room 304
Session Chair(s)	Dr. Jangyup Son (KIST)

TS05T5_I_1 ***Invited** 15:50–16:20

Epitaxy Growth of P-Type 2D Semiconductors

Vincent Tung[1], Chien-Chih Tseng[1], Chang-Hsun Huang[2], Jui-Han Fu[1], and Yi-Chia Chou[2]
([1]The University of Tokyo, [2]National Taiwan University)

TS05T5_I_2 ***Invited** 16:20–16:50

3D Electronics: From Materials Innovation to AI Hardware

Sang-Hoon Bae
(Washington University in St. Louis)

TS05T5_O_3 16:50–17:05

Optical Layer-Number Identification of 2D MoS_2 Flakes for Statistical Investigation of Thickness-Dependent Electronic Device Characteristics

Sanghyun Lee[1,2], Sumin Hong[1,2], Minho Park[1,2], Seongju Kim[3], Sanghoon Baek[4], Seonguk Yang[2], Joonki Suh[2], Yongwoo Lee[2], Haksoon Jung[2], and Jimin Kwon[1,2]
([1]Ulsan National Institute of Science and Technology, [2]Korea Advanced Institute of Science and Technology, [3]Hanbat National University, [4]Hanyang University)

TS05T5_O_4 17:05–17:20

The Investigation of Interatomic Potential Effect and Tensile Behavior on Monolayer MoS_2 Enabled by Atomistic-Continuum Mechanics

Pei-Chen Huang, Chong-You Liao, and Bo-Cheng Tan
(National Chung Cheng University)

TS05T5_O_5 ***YSA Applied** 17:20–17:35

Reconfigurable Vertical Schottky Photodiodes based on Ferroelectric 2D Semiconductors for Perceptual-Precision, Context-Aware Neuromorphic Vision

Tae Hyun Yoon[1], Jin Yong An[1,2], Yeon Ho Kim[1], Woong Huh[2], Jaeho Lee[1], Sungmin Park[1], Bong Gi Lim[1], Donghui Kang[1], Sangcheon Park[1], and Chul-Ho Lee[1]
([1]Seoul National University, [2]KU-KIST)

TS05T5_O_6 ***YSA Applied** 17:35–17:50

Highly Sensitive MoS_2/PbS Photodetector Arrays on Flexible Substrates

Burkay Uzlu[1,2], Ozan Yakar[1,2], Stefanie L. Stoll[1], Arindam Bala[3], Sören Becker[4], Jan S. Niehaus[4], Hendrik Schlicke[4], Andras Kis[3], Zhenxing Wang[1], and Max C. Lemme[1,2]
([1]Advanced Microelectronic Center Aachen, [2]RWTH Aachen University, [3]Ecole Polytechnique Federale de Lausanne, [4]Fraunhofer Center for Applied Nanotechnology CAN)