[TS05T4]

Angstrom-Scale 2D Materials for Beyond-Nano Technology 4

Date & Time	July 9(Thu.), 2026 / 14:00–15:45
Place	Room 304
Session Chair(s)	Prof. Jae Hyun Lee (Sungkyunkwan University)

TS05T4_I_1 ***Invited** 14:00–14:30

Phase Engineering of Nanomaterials (PEN)

Hua Zhang

(City University of Hong Kong)

TS05T4_O_2 ***YSA Applied** 14:30–14:45

Plasma-Assisted Polymorphic Phase Engineering for Low-Resistance Contacts in 2D TMDs

Ji Won Heo[1], Gwang-Seok Chae[2], Gyeong Deok Seo[1], Dong Hyun Seo[1], Gi Dan Shim[1], Han-Woong Choi[1], Jin-Hoo Seong[2], Jae-Heon Lee[2], Hagyoul Bae[3], Sungjune Park[4], Hyo-Change Lee[2], and TaeWan Kim[1]

([1]University of Seoul, [2]Korea Aerospace University, [3]Jeonbuk National University, [4]Sungkyunkwan University)

TS05T4_O_3 ***YSA Applied** 14:45–15:00

Sulfur Vacancy Repair Suppressing Process-Induced Interfacial Degradation in MoS_2 FETs under BEOL Process Stacks

Sumin Hong[1,2], Haksoon Jung[2], Yongwoo Lee[2], Sanghyun Lee[1], and Jimin Kwon[1,2]

([1]Ulsan National Institute of Science and Technology, [2]Korea Advanced Institute of Science and Technology)

TS05T4_O_4 ***YSA Applied** 15:00–15:15

CMOS-Compatible Conformal TiN Contacts on TMDs via Plasma-Enhanced Atomic Layer Deposition

Gyeonghwan Kim, Seongyun Yang, and Jihyun Kim

(Seoul National University)

TS05T4_O_5 ***YSA Applied** 15:15–15:30

Direct Observation of Interfacial Orbital Hybridization in Sb/MoS_2 for Ohmic Contacts

Woo-Ju Lee[1,2], Yosub Choi[1,2], TaeJoon Mo[1,2], Yong-Sung Kim[3], Moon-Ho Jo[1], and Cheol-Joo Kim[1,2]

([1]Pohang University of Science and Technology, [2]Institute for Basic Science, [3]Korea Research Institute of Standards and Science)

TS05T4_O_6 ***YSA Applied** 15:30–15:45

Selenium Vacancy Healing Induced Electrical Enhancement in CVD Grown Monolayer WSe_2

Prashant Bisht[1], Hyeonho Jeong[1], Mayuri Sritharan[3], Justin Wong[3], Seongin Hong[2], Youngki Yoon[3], and Sunkook Kim[1]

([1]Sungkyunkwan University, [2]Gachon University, 3University of Waterloo)