2023년 2월 13일(월)~ 15일(수) | 강원도 하이원리조트(그랜드호텔 컨벤션타워)

2023년 2월 15일(수), 16:00-17:45 Room D (사파이어 II+III, 5층)

D. Thin Film Process Technology 분과 [WD3-D] Emerging Devices

좌장: 윤성민 교수(경희대학교), 엄태용 선임연구원(한국화학연구원) In-situ Observation of Two-Dimensional Electron Gas Creation at the Interface of an Atomic-Layer-Deposited Al₂O₃/TiO₂ Thin Film Heterostructure Ji Hyeon Choi¹, Tae Jun Seok¹, Jae Hyuck Jang², Deok-Yong Cho³, Sang Woon Lee^{4,5}, and Tae Joo Park1 WD3-D-1 16:00-16:15 ¹Department of Materials Science and Chemical Engineering, Hanyang University, ²Electron Microscopy Research Center, KBSI, ³IPIT and Department of Physics, Jeonbuk National University, ⁴Department of Energy Systems Research, Ajou University, ⁵Department of Physics, Ajou University Channel Switching-Based Negative Differential Resistance Behavior with Post-WD3-D-2 Fabrication Adjustability by Light/Gate Voltage Co-Control 16:15-16:30 Seongjae Kim, Yunchae Jeon, and Hocheon Yoo Department of Electronic Engineering, Gachon University A Multi-deposition Method for High-performance Solution-processed Carbon **Nanotube Network Transistors** Hanbin Lee¹, Jeonghee Ko¹, Yulim An¹, Hyo-In Yang¹, Dong Myong Kim¹, Dae Hwan WD3-D-3 16:30-16:45 Kim¹, Jong-Ho Bae¹, Minho Kang², and Sung-Jin Choi¹ ¹School of Electrical Engineering, Kookmin University, ²Department of Nano-process, NNFC Optically Programmable Floating-Gate Small Molecules-Based Heterojuction WD3-D-4 Transistors Exceeding a Programmed/Erased Current Ratio of 10⁷ 16:45-17:00 Seungme Kang, Seongjae Kim, and Hocheon Yoo Gachon University Low-temperature Ferroelectric Hf_{0.5}Zr_{0.5}O₂ Device for BEOL Integration Hye Ryeon Park¹, Jeong Gyu Yoo¹, Seongbin Park¹, Yong Chan Jung², Jiyoung Kim², WD3-D-5 17:00-17:15 and Si Joon Kim1 ¹Kangwon National University, ²The University of Texas at Dallas InAlGaAs MQW Regrowth on InP/Si Bonding Template WD3-D-6 윤소연^{1,2}, 김호성¹, 박민수², 한원석¹ 17:15-17:30 ¹한국전자통신연구원 광통신부품연구실,²동아대학교 전자공학과 Charge Injection Barrier Control by Small-Molecular Buffer and Its Effects on a WD3-D-7 **Hybrid Complementary Inverter Circuit** Youngmin Han, Seongjae Kim, Chang-Hyun Kim, and Hocheon Yoo 17:30-17:45 Department of Electronic Engineering, Gachon University