



# 제 30회 한국반도체학술대회

The 30th Korean Conference on Semiconductors

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

2023년 2월 15일(수), 09:00-10:15

Room L (다이아몬드 II, 6층)

## G. Device & Process Modeling, Simulation and Reliability 분과

### [WL1-G] Phase-Field, Molecular Dynamics Simulation and Carrier Transport

좌장: 장지원 교수(연세대학교), 홍성민 교수(GIST)

WL1-G-1 09:00-09:30 [초청]	<b>Phase-field Method and Its Application to Semiconductor Device and Process Simulation</b> Yongwoo Kwon <i>Hongik University</i>
WL1-G-2 09:30-09:45	<b>Multi-Level Storage in Cleaved-Gate Ferroelectric FETs Investigated by 3D Phase-Field Based Quantum Transport Simulation</b> Jeonghwan Jang, Hyeongu Lee, and Mincheol Shin <i>School of Electrical Engineering, KAIST</i>
WL1-G-3 09:45-10:00	<b>Investigation of Thermal Stress Effects and Delamination during Annealing of HfO<sub>2</sub> Thin Film Using Molecular Dynamics Simulations</b> Kiran Raj and Yongwoo Kwon <i>Department of Materials Science and Engineering, Hongik University</i>
WL1-G-4 10:00-10:15	<b>Multi-physics Boltzmann Transport Simulation in Nanowire by Coupling Multiple Physics-informed Deep Operator Networks</b> Bokyeom Kim and Mincheol Shin <i>School of Electrical Engineering, KAIST</i>