제 31회 한국반도체학술대회 The 31st Korean Conference on Semiconductors

2024년 1월 24일(수)-26일(금) | 경주화백컨벤션센터(HICO)

2024년 1월 25일(목), 10:55-12:40 Room K(205),2층

G. Device & Process Modeling, Simulation and Reliability 분과

[TK2-G] Carrier Transport & Ab-initio Simulation

좌장: 정창욱 교수(울산과학기술원), 장지원 교수(연세대학교)

TK2-G-1 10:55-11:10	Neural Network-Assisted Acceleration of Full-Band Semi-Classical Monte Carlo Carrier Transport Simulation Dong Hyeok Lee ¹ and Jiwon Chang ^{1,2} ¹ Department of Materials Science and Engineering, Yonsei University, ² Department of System Semiconductor Engineering, Yonsei University Cation Disorder Limited IGZO Mobility Calculation based on Density
TK2-G-2 11:10-11:25	Functional Theory Seung Hyo Han, Deokhwa Seo, and Mincheol Shin School of Electrical Engineering, KAIST
TK2-G-3 11:25-11:40	Effects of the Gate Offset on Gate-all-around Negative Capacitance Field Effect Transistors with Self-heating Effect Yangjin Jung, Hyeongu Lee, and Mincheol Shin Department of Electrical Engineering, KAIST
TK2-G-4 11:40-11:55	Semi-Classical Monte Carlo Simulation of Electron/Hole Mobility in Monolayer MX ₂ (M=Mo, W; X=S, Se) Sukhyeong Youn ^{1,2} , Donghyeok Lee ^{1,2} , and Jiwon Chang ^{1,2} ¹ Department of System Semiconductor Engineering, Yonsei University, ² Department of Materials Science & Engineering, Yonsei University
TK2-G-5 11:55-12:10	Study of Non-equilibrium Energetics in Van der Waals Ferroelectric Tunnel Junctions Using Multi-space Density Functional Theory Kaptan Rajput, Ryong Gyu Lee, Tae Hyung Kim, and Yong-Hoon Kim School of Electrical Engineering, KAIST
TK2-G-6 12:10-12:25	Strain-Tuned Ferroelectric Transitions in HfO ₂ : A New Pathway to Ferroelectric Devices II Young Lee ^{1,2} and Jae Jun Yu ^{1,2} ¹ Center for Theoretical Physics, Seoul National University, ² Department of Physics and Astronomy, Seoul National University

제 31회 한국반도체학술대회 The 31st Korean Conference on Semiconductors

2024년 1월 24일(수)-26일(금) | 경주화백컨벤션센터(HICO)

	Transport Simulation for Nanosheet FET with Extended Source and
TK2-G-7	Drain Regions
12:25-12:40	Phil-Hun Ahn and Sung-Min Hong
	School of Electrical Engineering and Computer Science, GIST