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

2023년 2월 14일(화), 10:55-12:40 Room G (스페이드 II+III, 6층)

K. Memory (Design & Process Technology) 분과 [TG2-K] RRAM and Synapse Device III

좌장: 김형진 교수(인하대학교), 곽준영 박사(KIST)

TG2-K-1 10:55-11:10	Tuning Synaptic Characteristic of Battery-like Organic Synapse by Redox Additive Sooyeon Narie Kay, Jiyoung Lee, and Kyung Min Kim KAIST
TG2-K-2 11:10-11:25	Low-Power-Consumption Nb-Doped WSe ₂ Memtransistor with Accelerated Synaptic Plasticity Jina Bak, SeungGyu Kim, Jeechan Yoon, Jihyang Park, Bolim You, Myung Gwan Hahm, and Moonsang Lee Department of Materials Science and Engineering, Inha University
TG2-K-3 11:25-11:40	Ultra-Low Power 2D Tellurene Synaptic Transistor for Neuromorphic Computing Jeechan Yoon ¹ , Bolim You ¹ , Seung Hyun Nam ¹ , Ojun Kwon ² , Jina Bak ¹ , Jihyang Park ¹ , Byungjin Cho ² , Myung Gwan Hahm ¹ , and Moonsang Lee ¹ ¹ Department of Materials Science and Engineering, Inha University, ² Department of Advanced Materials Engineering, Chungbuk National University
TG2-K-4 11:40-11:55	RRAM Reset Voltage Control Using Forming Gas Annealing Kyungho Hong ^{1,2} , Sungjoon Kim ^{1,2} , Tae-Hyeon Kim ^{1,2} , and Woo Young Choi ^{1,2} ¹ Department of Electrical and Computer Engineering, Seoul National University, ² Interuniversity Semiconductor Research Center, Seoul National University
TG2-K-5 11:55-12:10	The Correlation between Frenkel Pair Dynamics and Device Properties of SiOx Based Resistive Random-access Memory Taeheon Lee and Sungyeop Jung Semiconductor Devices and Circuits Laboratory, Advanced Institute of Convergence Technology, Seoul National University
TG2-K-6 12:10-12:25	Molybdenum Based Low Power 1-Transistor, 1-Memristor Array Device for Homomorphic Encryption Woon Hyung Cheong, Jae Hyun In, Jae Bum Jeon, and Kyung Min Kim KAIST
TG2-K-7 12:25-12:40	Development of Artificial Neuron Using 2D hBN for Neuromorphic Applications Yooyeon Jo ¹ , Gichang Noh ¹ , Eunpyo Park ¹ , Min Jee Kim ¹ , Yong Woo Sung ¹ , Dong Yeon Woo ¹ , Dae Kyu Lee ¹ , Da Gil Ryu ¹ , and Joon Young Kwak ^{1,2} ¹ KIST, ² University of Science and Technology (UST)