K. Memory (Design & Process Technology) 분과

2021년 1월 28일(목), 13:00–14:30 / 채널 D

[TD3-K] Devices for Neuromorphic Computing Ⅱ

좌장: 권용우 교수 (홍익대학교), 김형진 교수 (인하대학교)

TD3-K-1 **13:00-13:30**	[초청] **Device and Selector Optimization of Vertical RRAM and Its Application for Neuromorphic Computing** Batyrbek Alimkhanuly, Arman Kadyrov, Yongsu Choi, and Seunghyun Lee *Department of Electronic Engineering, Kyung Hee University*
TD3-K-2 **13:30-13:45**	**Process-in-memory Performance Demonstration of Self-Rectifying Resistive Memory in an Integrated Crossbar Array** Kanghyeok Jeon[1,2], Jin Joo Ryu[1], Seung-Jong Yoo[1,2], Min Kyu Yang[3], Doo Seok Jeong[2], and Gun Hwan Kim[1] *[1]Division of Advanced Materials, KRICT, [2]Division of Materials Science and Engineering, Hanyang University, [3]Department of Computer Car Mechatronics, Sahmyook University*
TD3-K-3 **13:45-14:00**	**Artificial Van-der-Waals Hybrid Synapse for Brain-Inspired Parallel Computing** Seunghwan Seo[1] and Jin-Hong Park[1,2] *[1]Department of Electrical and Computer Engineering, Sungkyunkwan University,* *[2]Sungkyunkwan University Advanced Institute of Nanotechnology, Sungkyunkwan University*
TD3-K-4 **14:00-14:15**	**Short-term and Long-term Memory Operations of a-IGZO Synaptic TFTs with the Low-temperature ALD Al_2O_3 Gate Insulator and Metal Floating Gate** Dongyeon Kang, Jun Tae Jang, Dong Myong Kim, Sung-Jin Choi, Jong-Ho Bae, and Dae Hwan Kim *School of Electrical Engineering, Kookmin University*
TD3-K-5 **14:15-14:30**	**Atomic Layer Chemical Vapor Deposition of SiO_2 Thin Film Using Chlorine-free Silicon Precursor for 3D NAND Application** Ji-hoon Baek[1], GeonHo Baek[2], Hye-mi Kim[1], Seunghwan Lee[1], Yusung Jin[3], Hyung Soon Park[3], Deok-Sin Kil[3], Sangho Kim[4], Yongjoo Park[4], and Jin-Seong Park[1,2] *[1]Division of Materials Science and Engineering, Hanyang University,* *[2]Division of Nanoscale Semiconductor Engineering, Hanyang University,* *[3]Materials Development White Team, SK Hynix Inc., [4]Advanced Research Development Team, SK Trichem Co., Ltd.*