



제 30회 한국반도체학술대회

The 30th Korean Conference on Semiconductors

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

2023년 2월 14일(화), 10:55-12:40

Room A (에메랄드 I, 5층)

D. Thin Film Process Technology 분과

[TA2-D] Memory Devices

좌장: 한정환 교수(서울과학기술대학교), 전우진 교수(경희대학교)

TA2-D-1 10:55-11:25 [초청]	Optimization of Self-rectifying Resistive Switching Memory for Application in Hole-etched Vertical Array Configuration Hae Jin Kim <i>Department of Electronic Materials Engineering, The University of Suwon</i>
TA2-D-2 11:25-11:40	Growth of High-k Rutile TiO₂ Thin Films on SnO₂ Layers Using Atomic Layer Deposition for DRAM Capacitors Daeun Lim ¹ , Yeji Lee ² , Jonghyun Kim ² , Jina Kim ³ , Jeong Hwan Han ³ , Eun A Kim ² , Seong-Yong Cho ² , and Woongkyu Lee ¹ <i>¹Soongsil University, ²Myongji University, ³Seoul National University of Science and Technology</i>
TA2-D-3 11:40-11:55	Study on Electro-thermal Behavior of Ovonic Threshold Switch by In Situ Thermal Imaging Ju Hwan Park ¹ , Myeong Jun Jung ¹ , Ha Young Lee ¹ , Gun Hwan Kim ² , Min Kyu Yang ³ , and Byung Joon Choi ¹ <i>¹Seoul National University of Science and Technology, ²KRICT, ³Sahmyook University</i>
TA2-D-4 11:55-12:10	The Controlled Nitrogen Profile and Amount in SiO₂ Thin Film Using Remote Plasma Oxidation and Nitridation for DRAM Application Moonsuk Choi ¹ , Chaewon Kim ¹ , Sunbum Kim ¹ , Ji Hyeon Sim ¹ , Hyeongjun Kim ¹ , Juhwan Kim ² , Junwoo Park ² , Pilseong Jeong ² , Sanghyun Ji ³ , and Changhwan Choi ¹ <i>¹Division of Materials Science and Engineering, Hanyang University, ²Software Team, AP Systems, ³Semiconductor Equipment Department, AP Systems</i>
TA2-D-5 12:10-12:25	Improved Energy Storage Performance of the Al-doped ZrO₂ with Anti-ferroelectricity for Electrostatic Capacitors Seung Won Lee, Youkyoung Oh, Min Ji Jeong, and Ji-Hoon Ahn <i>Department of Materials Science and Chemical Engineering, Hanyang University</i>
TA2-D-6 12:25-12:40	Crystallinity-dependent Low Current and Analog Switching Behavior of Ru Ion-Based Memristor Ji Eun Kim ^{1,2} , Jae Uk Kwon ^{1,2} , Suk Yeop Chun ^{1,3} , Young Geun Song ¹ , Doo Seok Jeong ⁴ , Chong-Yun Kang ^{1,3} , Seong Keun Kim ^{1,3} , Sahn Nahm ^{2,3} , and Jung Ho Yoon ¹ <i>¹Electronic Materials Research Center, KIST, ²Department of Materials Science and Engineering, Korea University, ³KU-KIST Graduate School of Converging Science and Technology, Korea University, ⁴Division of Materials Science and Engineering, Hanyang University</i>