

제23회 한국반도체학술대회

2016년 2월 22일(월)-24일(수), 강원도 하이원리조트

F. Silicon and Group-IV Devices and Integration Technology 분과

Room G

봉래표+Ⅲ(6층)

2016년 2월 23일(화) 10:40-12:40

[TG2-F] Novel Si Devices and Integrated Circuits (2)

좌장 : 정성웅(SK 하이닉스), 조성재(가천대학교)

TG2-F-1	10:40-11:10	[초청] Recent Trends in Silicon Photonics and Perspectives of Its Future Advances Donghwan Ahn <i>School of Advanced Materials Engineering, Kookmin University</i>
TG2-F-2	11:10-11:25	Step-Up Voltage Amplification by Negative Capacitance in Organic/Ferroelectric Material P(VDF-TrFE) Youngtaek Lee, Jaesung Jo and, Changhwan Shin <i>School of Electrical and Computer Engineering, University of Seoul</i>
TG2-F-3	11:25-11:40	Si CMOS Extension and Ge Technology Perspectives Forecast through Metal-oxide-semiconductor Junctionless Field-effect Transistor Youngmin Kim ¹ and Seongjae Cho ^{1,2} <i>¹Department of Electronic Engineering, Gachon University, ²Graduate School of IT Convergence Engineering, Gachon University</i>
TG2-F-4	11:40-11:55	Novel Degradation of Vertical NAND (VNAND) Flash Memory Cells Hyung Su Kwon ¹ , Hyunseung Yoo ² , Gyu-Seong Cho ² , Sung-Kye Park ² , and Woo Young Choi ¹ <i>¹ Department of Electronic Engineering, Sogang University, ²Flash Device Technology Team, SK hynix Inc.</i>
TG2-F-5	11:55-12:10	Circuit-level Simulation of RRAM Cross-point Array based on a Reliable Device-level Compact Modeling Min-Hwi Kim ¹ , Sungjun Kim ¹ , Sunghun Jung ¹ , Seongjae Cho ² , and Byung-Gook Park ¹ <i>¹Inter-university Semiconductor Research Center and Department of Electrical and Computer Engineering, Seoul National University, ²Department of Electronic Engineering, Gachon University</i>
TG2-F-6	12:10-12:25	Synaptic Device Based on Gated-Diode Memory String using GIDL Current for Neuromorphic System Sung Yun Woo, Chul-Heung Kim, Jaeha Kim, and Jong-Ho Lee <i>Department of Electrical and Computer Engineering, Seoul National University</i>

The 23rd Korean Conference on Semiconductors (KCS 2016)

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TG2-F-7 **12:25-12:40** **Compact CMOS-based Multi-valued Literal Gate as a Building Block for Multi Valued Logic and Memory Applications**
E-San Jang, Sunhae Shin, Jae Won Jeong, and Kyung Rok Kim
School of Electrical and Computer Engineering, Ulsan National Institute of Science and Technology