



제 30회 한국반도체학술대회

The 30th Korean Conference on Semiconductors

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

2023년 2월 15일(수), 09:00-10:30

Room D (사파이어 II+III, 5층)

J. Nano-Science & Technology 분과

[WD1-J] Neuromorphic Devices

좌장: 이철호 교수(고려대학교), 이관형 교수(서울대학교)

WD1-J-1 09:00-09:30 [초청]	Simultaneous Emulation of Synaptic and Intrinsic Plasticity Using a Memristive Synapse Keon Jae Lee <i>Department of Materials Science and Engineering, KAIST</i>
WD1-J-2 09:30-10:00 [초청]	Energy-efficient Neuromorphic Systems Driven by Emerging Device Technologies Hyun Wook Kim ¹ , Eunryeong Hong ¹ , Seonuk Jeon ² , Heebum Kang ¹ , Nayeon Kim ² , and Jiyong Woo ^{1,2} ¹ <i>School of Electronic and Electrical Engineering, Kyungpook National University,</i> ² <i>School of Electronics Engineering, Kyungpook National University</i>
WD1-J-3 10:00-10:15	Uniform and Reliable Titanium Oxide Memristor Array for Efficient In-situ Hardware Neuromorphic Application Jingon Jang ¹ , Sanggyun Gi ² , Byunggeun Lee ² , and Gunuk Wang ^{1,3,4} ¹ <i>KU-KIST Graduate School of Converging Science and Technology, Korea University,</i> ² <i>School of Electrical Engineering and Computer Science, GIST,</i> ³ <i>Department of Integrative Energy Engineering, Korea University,</i> ⁴ <i>Center for Neuromorphic Engineering, KIST</i>
WD1-J-4 10:15-10:30	Optical Synaptic Properties of the TiO₂-Based Ternary Logic Transistors Using Ultra-thin Dielectric AlO_x Films Jieun Kim ^{1,2} and Jung Wook Lim ^{1,2} ¹ <i>ETRI,</i> ² <i>University of Science and Technology (UST)</i>