



제 29회 한국반도체학술대회

The 29th Korean Conference on Semiconductors

2022년 1월 24일(월)~ 26일(수) | 강원도 하이원 그랜드호텔(컨벤션타워)

2022년 1월 25일(화), 09:00-10:30

Room G (스페이드 II+III, 6층)

J. Nano-Science & Technology 분과 [TG1-J] Neuromorphic Electronics I

좌장: 조병진 교수(충북대학교)

<p>TG1-J-1 09:00-09:15</p>	<p>Artificial Neuron based on SiO_x Nanorod Structured Memristor for Probabilistic Computing Application Sanghyeon Choi¹, Gwang Su Kim^{1,2}, Jehyeon Yang¹, Haein Cho¹, Chong-Yun Kang^{1,2}, and Gunuk Wang^{1,3} ¹KU-KIST Graduate School of Converging Science and Technology, Korea University, ²Electronic Materials Research Center, KIST, ³Department of Integrative Energy Engineering, Korea University</p>
<p>TG1-J-2 09:15-09:45</p>	<p>Ferroelectric Materials for Memory and Neuromorphic Device Applications Jang-Sik Lee Department of Materials Science and Engineering, POSTECH</p>
<p>TG1-J-3 09:45-10:00</p>	<p>Effect of HfO₂ Passivation Layer on Photosynaptic Functionality of InGaZnO Synaptic Device Seyoung Oh¹ and Byungjin Cho^{1,2} ¹Department of Advanced Material Engineering, Chungbuk National University, ²Department of Urban, Energy, Environmental Engineering, Chungbuk National University</p>
<p>TG1-J-4 10:00-10:15</p>	<p>Synaptic Device based on Resistive Switching Memory Using Single Walled Carbon Nanotube Dong Jun Jang, Hyunwoo Ryu, Hyeonjin Cha, Na-Young Lee, Younglae Kim, and Min-Woo Kwon Department of Electric Engineering, Gangneung-Wonju National University</p>
<p>TG1-J-5 10:15-10:30</p>	<p>Organic Ion Reservoirs for Synaptic Memory Devices Dongshin Kim, Ik-Jyae Kim, and Jang-Sik Lee Department of Materials Science and Engineering, POSTECH</p>