57D. Devices for Emerging Applications	
Session Date:	March 10(Fri.), 2023
Session Time:	13:15-14:50
Session Room:	Room D (#308 bc)
Session Chair:	Dr. Kakushima Kuniyuki (Tokyo Institute of Technology)

[57D-1] [Invited] 13:15-13:40

Phosphosilicate Glass-Based Nanosecond Protonic Programmable Resistors for Analog Deep Learning

Murat Onen, Ju Li, Bilge Yildiz and Jesús A. del Alamo

Massachusetts Institute of Technology

[57D-2] [Invited] 13:40-14:05

Strategy for Low Temperature HZO Ferroelectric Capacitors for Back-End of Line Applications

Jin-Hyun Kim[1], Minjong Lee[1], Seojun Lee[1,2], Yong Chan Jung[1], Rino Choi[2], Hyun Jae Kim[3], Si Joon Kim[4] and Jiyoung Kim[1]

[1]The University of Texas at Dallas, [2]Inha University, [3]Yonsei University, [4] Kangwon National University

[57D-3] 14:05-14:20

Sharp Turn-On Diode by Steep SS "PN-Body Tied SOI FET" for Ultra-Low Power RF Energy Harvesting

Masayuki Ono[1], Jiro Ida[1], Takayuki Mori[1] and Koichiro Ishibashi[2]

[1]Kanazawa Institute of Technology, [2]The University of Electro-Communications

[57D-4] 14:20-14:35

Intercalated Multilayer Graphene / Nickel Hybrid Antenna with Enhanced Inductance Density for Size Reduction

Keigo Hosokawa, Kenta Matsunaga and Kazuyoshi Ueno

Shibaura Institute of Technology

[57D-5] 14:35-14:50

Design and Demonstration of Cu/ Al_2O_3 /Cu RRAM with Complementary Resistance Switching Characteristic

Huanmei Yuan[1,2,4], Yang Chai[3], Shunqi Dai[1,2], Cristine Jin Estrada[1], Yuqing Zhang[1], Annan Xiong[1,2], Hao Bai[3], Guangyu Du[3], Songhua Cai[3], Zhimin Li[3], Songcen Xu[1] and Mansun Chan[1,2]

[1] The Hong Kong University of Science and Technology, [2]InnoHK Centers, [3]The Hong Kong Polytechnic University, [4]University of Science and Technology Beijing