



IUMRS-ICEM 2018

AUGUST 19(SUN.) - 24(FRI.), 2018 / DAEJEON, KOREA

Session Title	Memory&Neuromorphic Devices	Session Code	Th-H1
Date and Time	2018-08-23 / 10:30 - 12:30		
Place	Room H		
Session Chair	TBA		

Th-H1-1

10:30 - 10:55

[Invited] SiGe Epitaxial Memory for Neuromorphic Computing with Reproducible High Performance based on Engineered Dislocations

Jeehwan Kim
MIT, USA

Th-H1-2

10:55 - 11:10

The Synaptic Plasticity of Low-Power Diffusion Memristor with Ag/Ta₂O₅/HfO₂/Pt Structure

Yu-Rim Jeon, Changhwan Choi, Yawar Abbas, Andrey S. Sokolov, Boncheol Ku, and Sohyeon Kim
Hanyang Univ., Korea

Th-H1-3

11:10 - 11:25

Enabling the Tantalum Oxide based Memristor for Neuromorphic Applications

Yawar Abbas, Andrey Sergeevich Sokolov, Yu-Rim Jeon, Sohyeon Kim, Boncheol Ku, and Changhwan Choi
Hanyang Univ., Korea

Th-H1-4

11:25 - 11:40

Controlling Metal Filament Formation of Restive Switching Memory Device via Nanomesh Patterning

Tae Jin Kim, Byoung Kuk You, and Keon Jae Lee
KAIST, Korea

Th-H1-5

11:40 - 12:05

[Invited] Design of Dielectric Materials in Charge Trap Memories

Seung Jae Baik
Hankyong Nat'l Univ., Korea

Th-H1-6

12:05 - 12:30

[Invited] Interface Engineering in Flexible Semiconductor Heterojunctions

Yuan Lin
Univ. of Electronic Sci. and Tech. of China, China