

제23회 한국반도체학술대회

2016년 2월 22일(월)-24일(수), 강원도 하이원리조트

D. Thin Film Process Technology 분과

Room B

태백II+III(5층)

2016년 2월 24일(수) 08:30-10:00

[WB1-D] Thin Films for Emerging Devices I

좌장 : 박태주(한양대학교), 윤성민(경희대학교)

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| WB1-D-1 | 08:30-08:45 | Comparison of Switching Characteristics of ALD Al₂O₃, HfO₂, HfAlO_x-based ReRAM Devices Under DC Voltage Sweep
Andrey Sokolov, Seokki Son, and Changhwan Choi
<i>Division of Materials Science and Engineering, Hanyang University</i> |
| WB1-D-2 | 08:45-09:00 | Hybrid Complementary Inverter for Solution-Processed Single-walled Carbon Nanotube and A-IGZO Thin-Film Transistors
Yongwoo Lee, Jinsu Yoon, Bongsik Choi, Juhee Lee, Minsu Jeon, Jungmin Han, Jieun Lee, Dong Myong Kim, Dae Hwan Kim, and Sung-Jin Choi
<i>School of Electrical Engineering, Kookmin University</i> |
| WB1-D-3 | 09:00-09:15 | Transparent Synapse Thin-Film Transistors Using IGZO Active Channel and PVP-SBA Electrolytic Gate Insulator
Yeo-Myeong Kim, Eom-Ji Kim, Won-Ho Lee, and Sung-Min Yoon
<i>Kyung Hee University</i> |
| WB1-D-4 | 09:15-09:30 | Nano-Scale Cross Array Neuromorphic Devices with Al-Doped HfAlO_x Laminated Oxide Switching Layer and Its Synaptic Characterization
Seokki Son, Andrey Sokolov, and Changhwan Choi
<i>Division of Material Science and Engineering, Hanyang University</i> |
| WB1-D-5 | 09:30-09:45 | Filament-Shape Dependent Reset Behavior in Cu/TiO₂/Pt Resistance Switching Device
Hae Jin Kim, Kyung Jean Yoon, Young Jae Kwon, Han Joon Kim, Xing Long Shao, and Cheol Seong Hwang
<i>Department of Materials Science and Engineering and Inter-University Semiconductor Research Center, Seoul National University</i> |
| WB1-D-6 | 09:45-10:00 | Trilayer Tunnel Selector for Memristor Memory Cell
Sung Yeon Ryu, Do Yeon Lee, You Rim Kwon, Vladimir Kornijcuk, and Byung Joon Choi
<i>Department of Materials Science and Engineering, Seoul National University of Science and Technology</i> |