

제22회 한국반도체학술대회

2015년 2월 10일(화) - 12일(목), 인천 송도컨벤시아

D. Thin Film Process Technology 분과

Room D
1F / 107호

2015년 2월 12일(목) 14:50-16:20

[TD3-D] Device & Process Thin Film Technologies

좌장: 윤성민 (경희대학교), 최창환 (한양대학교)

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| TD3-D-1 | 14:50-15:05 | Effective Work Function Modulation of Nanoscale FinFET Devices by Plasma Treatment Method
Moonkyu Park, ¹ Hoonjoo Na, ¹ Ohseong Kwon, ¹ Jinkyu Jang, ¹ Sangjin Hyun, ¹ Jahum Ku ¹ , Sang-Beom Kim, ² Cjay Cho, ² Scott Hahn, ² Jun Lee ² , and Helen Maynard ²
¹ Semiconductor R&D Center, SAMSUNG ELECTRONICS CO., LTD, ² Varian Semiconductor Equipment, Applied Materials |
| TD3-D-2 | 15:05-15:20 | A Facile Interface Passivation to Reduce Interface State (Nit) in Tunneling Field Effect Transistor (TFET) with ALD HfO₂ and TiN Gate Stack
Donghwan Lim, Woosuk Jung, and Changhwan Choi
Department of Materials Science and Engineering, Hanyang University |
| TD3-D-3 | 15:20-15:35 | Post-Cleaning Effect on the HfO₂ Gate Stack using NF₃/NH₃ Plasma
Min Seon Lee ¹ , Hoon Jung Oh ² , Joo Hee Lee ¹ , In Geun Lee ¹ , Woo Gon Shin ³ , Kyu Dong Kim ³ , and Dae Hong Ko ^{1,2}
¹ Department of Materials Science and Engineering, Yonsei University, ² BIO-IT Micro Fab Center, Yonsei University, ³ Gen Co. Ltd. |
| TD3-D-4 | 15:35-15:50 | Effect of Thermal Defects on C-V Characteristics of MO₅ Structure with SiO₂ Passivation Layer Deposited on InS₅ Substrate via Raman Spectroscopy
Chulkyun Seok ^{1,2} , Taekyun Gang ² , Changwon Choi ² , Taeyang Yoon ² , Yongjo Park ¹ , and Euijoon Yoon ¹
¹ Department of Materials Science and Engineering, Seoul National University, Seoul, Korea, ² Memory Manufacturing Operation Center, Samsung Electronics |
| TD3-D-5 | 15:50-16:05 | Ferroelectric Hf_{0.5}Zr_{0.5}O₂ Thin Films with Al₂O₃ Interlayer as a Serial Resistor on Ferroelectric Switching
Han Joon Kim, Min Hyuk Park, Yu Jin Kim, Young Hwan Lee, Taehwan Moon, Keum Do Kim, and Cheol Seong Hwang
Department of Material Science & Engineering and Inter-university Semiconductor Research Center, Seoul National University |

The 22nd Korean Conference on Semiconductors (KCS 2015)

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TD3-D-6 14:25-14:40 Adaptive-Learning Synaptic Device Using Organic Ferroelectric Thin Films at Low-Process Temperature
Eom-Ji Kim, Kyeong-Ah Kim, Jun-Yong Bak, and Sung-Min Yoon
Department of Advanced Materials of Engineering for Information & Electronics, Kyung Hee University