



제25회 한국반도체학술대회

The 25th Korean Conference on Semiconductors

2018년 2월 5일(월)-7일(수), 강원도 하이원리조트 컨벤션 호텔

2018년 2월 7일(수), 10:45-12:15

Room F (봉래, 6층)

F. Silicon and Group-IV Devices and Integration Technology 분과

[WF2-F] Reliability

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| WF2-F-1 10:45-11:00 | Investigation of PBTI Characteristics of FD-SOI TFET with High-k Dielectric Hyeong-Sub Song ¹ , So-Yeong Kim ¹ , Sung-Kyu Kwon ¹ , Dong-Hwan Lim ² , Chang-Hwan Choi ² , Ga-Won Lee ¹ , and Hi-Deok Lee ¹ <i>¹Department of Electronics Engineering, Chungnam National University, ²Division of Materials Science and Engineering, Hanyang University</i> |
| WF2-F-2 11:00-11:15 | Investigation on Negative Differential Transconductance (NDT) of Double-Gate Tunnel FETs Jang Woo Lee and Woo Young Choi <i>Department of Electronic Engineering, Sogang University</i> |
| WF2-F-3 11:15-11:30 | Gate Voltage Dependence of Low Frequency Noise in Tunneling Field Effect Transistor So-Yeong Kim ¹ , Hyeong-Sub Song ¹ , Sung-Kyu Kwon ¹ , Dong-Hwan Lim ² , Chang-Hwan Choi ² , Ga-Won Lee ¹ , and Hi-Deok Lee ¹ <i>¹Department of Electronics Engineering, Chungnam National University, ²Division of Materials Science and Engineering, Hanyang University</i> |
| WF2-F-4 11:30-11:45 | Ge 기반의 소자에서 Y-ZrO₂ 게이트 유전체를 이용한 EOT 스케일링 (~5.7Å) 및 누설 전류와 계면 트랩의 감소 Tae In Lee, Min Ju Kim, Manh-Cuong Nguyen, Hyun Jun Ahn, Jungmin Moon, Tae Yoon Lee, Hyun-Young Yu, Rino Choi, Wan Sik Hwang, and Byung Jin Cho <i>School of Electrical Engineering, KAIST</i> |
| WF2-F-5 11:45-12:00 | Simple and Scalable N-Type Conversion of Semiconducting Carbon Nanotube Thin Film Transistors Using X-Layer/SU8 Passivation Seung Yeop Kim, Geon Woong Lim, Eun Bin Roh, Geun Woo Baek, and Sung Hun Jin <i>Department of Electronic Engineering, Incheon National University</i> |
| WF2-F-6 12:00-12:15 | Fabrication of High Quality Gate Insulator in Metal-Oxide-Semiconductor Capacitor Using Laser Annealing Kyoung Moon Yu, Hyung Min Ji, Manh-Cuong Nguyen, An Hoang-Thuy Nguyen, Jung Yeon Kim, Sujin Choi, Jonggyu Cheon, Jin Hyun Kim, Sang Woo Kim, Seong Yong Cho, and Rino Choi <i>Department of Materials Science and Engineering, Inha University</i> |