

제22회 한국반도체학술대회

2015년 2월 10일(화) - 12일(목), 인천 송도컨벤시아

G. Device & Process Modeling, Simulation and Reliability 분과

Room C
1F / 106호

2015년 2월 11일(수) 13:00-14:30

[WC2-G] Device Physics and Characterization 1

좌장: 신민철 (KAIST), 김대환 (국민대학교)

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| WC2-G-1 | 13:00-13:30 | Comparison of Electrical Characteristics between NanoPlate FET and Nanowire FET for 5 nm node Technology
Jong-su Kim, Duckseoung Kang, and Hyungcheol Shin
School of Electrical Engineering and Computer Science, Seoul National University |
| WC2-G-2 | 13:15-13:30 | Investigation of the Asymmetrical Degradation Behaviors under Various Gate and Drain Bias Stresses in a-InGaZnO Thin-Film Transistors
Daeun Lee ¹ , Chan-Yong Jeong ¹ , Sang-Hun Song ¹ , Jin Xiao-Shi ² , and Hyuck-In Kwon ¹
¹ School of Electrical and Electronics Engineering, Chung-Ang University,
² School of Information Science and Engineering, Shenyang University of Technology |
| WC2-G-3 | 13:30-13:45 | Various Heterojunction Single Gate Tunneling FETs with Graded Channel Doping in Sub-40 nm Channels
Jungsik Kim ¹ , Hyeongwan Oh ² , Taiuk Rim ³ , Chang-Ki Baek ³ , and Jeong-Soo Lee ^{1,2}
¹ Department of IT Convergence Engineering, POSTECH, ² Electrical Engineering, POSTECH, ³ Creative IT Engineering and Future IT Innovation Lab, POSTECH |
| WC2-G-4 | 13:45-14:00 | Analysis of Structural Dependences on the Electrical Performance of Vertical Organic Field-Effect Transistor (VOFET)
Juhee Lee, Bongsik Choi, Jinsu Yoon, Minsu Jeon, Jaeman Jang, Dong Myong Kim, Dae Hwan Kim, and Sung-Jin Choi
Kookmin University |
| WC2-G-5 | 14:00-14:15 | The High-k/Metal Gate Structure to Suppress GIDL and FIBL in MOSFET
Esan Jang, Jaewon Jung, Sunhae Shin, and Kyung Rok Kim
Department of Electrical and Computer Engineering, Ulsan National Institute of Science and Technology |
| WC2-G-6 | 14:15-14:30 | 2T SONOS Cell with a Low Voltage Select Gate for Random Access Operation |

The 22nd Korean Conference on Semiconductors (KCS 2015)

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Jaegwan Kim, Youngjun Kwon, Taeho Lee, Sunkun Park, Seongyong Sung,
Inwook Cho, and Kyongdong Yoo

Technology Development team, SK Hynix Inc.