

제20회 한국반도체학술대회

2013년 2월 4일(월)~6일(수) / 웰리힐리파크 (구, 성우리조트)

우) 302-120 대전광역시 서구 둔산동 1018번지 대한빌딩 5층 / 담당: 최은영 팀장, 김아영
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I. MEMS & Sensors 분과

Room G

국실 (본관, 5층)

2013년 2월 6일(수) 12:45-14:00

[WG2-I] MEMS & Sensors II

좌장: 조원주(광운대학교), 한상욱(KIST)

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| WG2-I-1 | 12:45-13:00 | Characterization of Subthreshold Slope Degradation in CMOS-Based Silicon Nanowire Biosensors
Won Hee Lee ¹ , Jin-Moo Lee ² , Mihee Uhm ¹ , Jieun Lee ¹ , Jung Han Lee ³ , Hagyoul Bae ¹ , Euiyoun Hong ¹ , Seonwook Hwang ¹ , Yun Hyeok Kim ¹ , Bong Sik Choi ¹ , Byung-Gook Park ³ , Dong Myong Kim ¹ , Yong-Joo Jeong ² , and Dae Hwan Kim ¹
¹ School of Electrical Engineering, Kookmin University, ² Department of Bio and Nanochemistry, Kookmin University, ³ School of Electrical Engineering and Computer Science, Seoul National University |
| WG2-I-2 | 13:00-13:15 | Implementation and Characterization of Gate-Induced Drain Leakage Current-Based Multiplexed SiNW Biosensor
Jieun Lee ¹ , Jung Han Lee ² , Mihee Uhm ¹ , Won Hee Lee ¹ , Seonwook Hwang ¹ , Bong Sik Choi ¹ , Byung-Gook Park ² , Dong Myong Kim ¹ , and Dae Hwan Kim ¹
¹ School of Electrical Engineering, Kookmin University, ² School of Electrical Engineering and Computer Science, Seoul National University |
| WG2-I-3 | 13:15-13:30 | Detection of a Specific Target DNA through the Threshold Voltage Shift in Silicon Nanowire FET-Based Biosensors
Seonwook Hwang ¹ , Jieun Lee ¹ , Won Hee Lee ¹ , Mihee Uhm ¹ , Bong Sik Choi ¹ , Hagyoul Bae ¹ , Sewook Oh ² , Yejin Kim ² , Hyun Ho Lee ² , Dong Myong Kim ¹ , and Dae Hwan Kim ¹
¹ School of Electrical Engineering, Kookmin University, ² Department of Chemical Engineering, Myongji University |
| WG2-I-4 | 13:30-13:45 | Microfluidic Dielectrophoresis Chip to Study the Dielectric Properties of the Primo Cell
Seung Hyun Lee ¹ , Yul Koh ¹ , Yeong Tai Seo ¹ , Kyoung Hee Bae ² , Hee Min Kwon ³ , and Yong Kweon Kim ¹
¹ School of Electrical Engineering and Computer Science, Seoul National University, ² Nano Primo Research Center, Advanced Institutes of Convergence Technology, ³ Yonsei Institute of Convergence Technology |
| WG2-I-5 | 13:45-14:00 | Low Noise Single Photon Detection System with InGaAs/InP APD Integrated TEC Device and Analog Integrator Readout Scheme
이민수 ^{1,2} , 한상욱 ¹ , 문성욱 ¹
¹ KIST 나노양자정보연구센터, ² UST 마이크로나노시스템공학 |