



제 30회 한국반도체학술대회

The 30th Korean Conference on Semiconductors

2023년 2월 13일(월) ~ 15일(수) | 강원도 하이원리조트(그랜드호텔 컨벤션타워)

2023년 2월 14일(화), 09:00-10:45

Room I (하트 II, 6층)

I. MEMS & Sensors Systems 분과

[T11-I] Advanced MEMS & Sensor System I

좌장: 원상민 교수(성균관대학교), 서민호 교수(부산대학교)

T11-I-1 09:00-09:15	CNT/실리콘 이중접합 다이오드 가스센서의 암모니아 검출 특성분석 김현규 ¹ , 오세인 ¹ , 황해철 ¹ , 이호준 ² , 배학열 ¹ , 김정식 ³ , 김기현 ¹ ¹ 전북대학교 전자정보공학부, ² 한국자동차연구원, ³ 경상대학교 전기공학과
T11-I-2 09:15-09:30	Demonstration of the pH Sensor-Embedded Neuromorphic Computing Block by Combining the pH Solution Receptor and the Amorphous InGaZnO Synaptic Transistor with a Floating Gate Wonjung Kim, Donguk Kim, Sung-Jin Choi, Jong-Ho Bae, Dong Myong Kim, and Dae Hwan Kim <i>School of Electrical Engineering, Kookmin University</i>
T11-I-3 09:30-09:45	A pH Sensor based on Non-contact Sheet Resistance Measurement Sang-Chan Park and Jae-Hyuk Ahn <i>Department of Electronics Engineering, Chungnam National University</i>
T11-I-4 09:45-10:00	High-Response Characteristics of Memristor-Based Gas Sensors Operated at Room Temperature Doowon Lee and Hee-dong Kim <i>Department of Electrical Engineering and Convergence Engineering for Intelligent Drone, Sejong University</i>
T11-I-5 10:00-10:15	Characteristics of Pull-in-Voltage Variation by Fabrication Process Parameters of MEMS Capacitive Microphone Structure Ju Chan Choi, Young Chan Choi, Hyung Suk Choi, Yun Peng Guan, Seung Han Ryu, Ji Do Kim, Kwang Woong Jeong, Kyu Seong Kim, Jang Hyun Kim, Min Sang Park, Gi Jun Park, Chan Woo Jo, Sungjin Oh, Young Heum Cho, Seok Jo Chang, Kwan Soo Kim, Tae Won Lee, and Jae Hee Lee <i>SK Hynix System IC</i>
T11-I-6 10:15-10:45 [초청]	2D Rhenium Dichalcogenides: From Fundamental Properties to Recent Advances in Sensory Device Technology Jo Hak Jeong, Dong Gyu Lee, Jung Woo Lee, Jin Taek Lee, Ho-Sung Lee, Hyeon-Sik Jang, and Keun Heo <i>Department of Semiconductor Science and Technology, Jeonbuk National University</i>