



제 31회 한국반도체학술대회

The 31st Korean Conference on Semiconductors

2024년 1월 24일(수)-26일(금) | 경주화백컨벤션센터(HICO)

2024년 1월 26일(금), 15:40-17:25
Room F(106), 1층

I. MEMS & Sensor Systems 분과

[FF3-I] Recent Advances in Sensor Geometry and Materials

좌장: 박윤석 교수(경희대학교)

<p>FF3-I-1 15:40-15:55</p>	<p>Dielectrically-modulated Thyristor Based Biosensor for Enhanced Sensitivity Chan Heo¹, Sein Oh¹, Hyeongyu Kim¹, Keun Heo², and Kihyun Kim¹ ¹Division of Electronic Engineering, Jeonbuk National University, ²Department of Semiconductor Science and Technology, Jeonbuk National University</p>
<p>FF3-I-2 15:55-16:10</p>	<p>Flexible Pressure Sensor with High Performance and Durability based on Porous Polymer Thin-Film Sehwan Park¹, Sanghoon Park², Haechang Lee³, Seunghyup Yoo², and Hanul Moon¹ ¹Department of Chemical Engineering (BK21 FOUR Graduate Program) & Department of Semiconductors, Dong-A University, ²School of Electrical Engineering, KAIST, ³Center for Biomaterials, Biomedical Research Institute, KIST</p>
<p>FF3-I-3 16:10-16:25</p>	<p>Hybrid Energy Harvesting System to Improve Power Efficiency of Organic Photovoltaics in Indoor Light Sources with Triboelectric Nanogenerator Hyojeong Choi¹, Selim Han¹, Jooyeong Kim², Biswas Swarup¹, and Hyeok kim¹ ¹School of Electrical and Computer Engineering, University of Seoul, ² Department of Intelligent Semiconductor Engineering, University of Seoul</p>
<p>FF3-I-4 16:25-16:40</p>	<p>Micro-Electronic Mechanical Switch (MEMS) Based Field-Programmable Photonic Gate Array (FPPGA) Hyug Su Kwon¹, Seok Chan Eom², Sangyeol Oh², Sunghoon Jang¹, Changku Kim¹, Youngseok Bae¹, Younghoon Chun², and Sangyoon Han³ ¹Agency for Defense Development, ²LIG NEX¹ Co., Ltd., ³DGIST</p>
<p>FF3-I-5 16:40-16:55</p>	<p>Sulfur-assisted WO₃ Nanospheres for Enhancement of NO₂ Gas Sensing Jun-Cheol Park and Sanghan Lee School of Materials Science and Engineering, GIST</p>



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FF3-I-6 16:55-17:10	Broadband Ultrahigh Responsivity Photodetector based on Topological Insulator/TMD Heterostructure Hyeon seung Jo ^{1,2} , Sang il Kim ³ , and Tae wan Kim ^{1,2} ¹ Department of Electrical Engineering, Jeonbuk National University, ² Smart Grid Research Center, Jeonbuk National University, ³ Department of Materials Science and Engineering, University of Seoul
FF3-I-7 17:10-17:25	Modulative Artificial Nociceptor based on Double Charge Trap Layer Structure Geunyoung Kim and Kyung Min Kim Department of Materials Science and Engineering, KAIST