



# 제 32회 한국반도체학술대회

The 32nd Korean Conference on Semiconductors

2025년 2월 12일(수)-14일(금) | 강원도 하이원리조트

*Future Normal in Semiconductor*



## Future Normal in Semiconductor

2025년 2월 13일(목), 09:00-10:45

Room N(다이아몬드 II), 6층

H. Display and Imaging Technologies 분과

### 014\_[TN1-H] Display and Imaging Technologies II

좌장: 권혁인 교수(중앙대학교), 정예환 교수(한양대학교)

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|---------------------------------------|--|
| <p>초청<br/>TN1-H-1<br/>09:00-09:30</p> | <p><b>The Use of Shape Memory Polymers for Micro-LED Transfer</b><br/>Junhyung Kim, Seungbeom Kim, and Seok Kim<br/>POSTECH</p>  |
| <p>TN1-H-2<br/>09:30-09:45</p>        | <p><b>Adaptive Synaptic Phototransistor Inspired by Neuronal Excitability Regulation for High-clarity Contour Extraction</b><br/>Jong Ik Kwon and Changsoon Choi<br/>Center for Quantum Technology, Post-silicon Semiconductor Institute, KIST</p>   |
| <p>TN1-H-3<br/>09:45-10:00</p>        | <p><b>Impact of Intermediate Control Layer Implemented for Enhancing Device Performance of Top-Gate Thin-Film Transistor Using Sputtered In<sub>2</sub>O<sub>3</sub> Film</b><br/>Se-Hyun Chun, Chae-Eun Oh, and Sung-Min Yoon<br/>Kyung Hee University</p>  |
| <p>TN1-H-4<br/>10:00-10:15</p>        | <p><b>Tuning the Properties of Hybrid Organic-Inorganic Negative Transconductance Field-Effect Transistors for Advanced Electronic Applications</b><br/>Juhjung Seo<sup>1</sup>, Seungme Kang<sup>2</sup>, and Hocheon Yoo<sup>1,2</sup><br/><sup>1</sup>Department of Electronic Engineering, Gachon University, <sup>2</sup>Department of Semiconductor Engineering, Gachon University</p> |
| <p>TN1-H-5<br/>10:15-10:30</p>        | <p><b>Hafnium Oxide Enhanced Ambipolar Single Walled Carbon Nanotube Transistors for Minimally Footprinted Neuromorphic Computing</b><br/>Seo-young Jo<sup>1</sup>, Yun-Sung Lee, Jang-Jun Seo, Ji-Won Kim, Nam-Gyu Sun, Kyeon-Moo Han, and Sung Hun Jin<br/>Incheon National University</p>   |
| <p>TN1-H-6<br/>10:30-10:45</p>        | <p><b>Crosstalk Characteristics in Vertical Nanowire Photodiode Array</b><br/>Seonyoung Park, Jihun Lee, Eunseo Nam, Bongno Yun, Juwon Yun, and Kihyun Kim<br/>Department of Electronics and information Engineering, Jeonbuk National University</p>  |



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