



## Future Normal in Semiconductor

2025년 2월 13일(목), 10:55-12:40

Room H(루비 I), 5층

### F. Silicon and Group-IV Devices and Integration Technology 분과

#### O20\_[TH2-F] Devices for Sensors/Optics/Powers

좌장: 김경록 교수(울산과학기술원), 안동환 교수(국민대학교)

<p>초청 TH2-F-1 10:55-11:25</p>	<p><b>Intelligent Multimodal Sensors Integrating Gas, Barometric Pressure, and Temperature Sensing</b> Gyuweon Jung<sup>1,2</sup>, Hyeongsu Kim<sup>1</sup>, Chayoung Lee<sup>1</sup>, Jaehyeon Kim<sup>1</sup>, Kangwook Choi<sup>1</sup>, Woo Young Choi<sup>1</sup>, and Jong-Ho Lee<sup>1</sup> <sup>1</sup>School of ECE and ISRC, Seoul National University, <sup>2</sup>School of Transdisciplinary Innovations, Seoul National University</p>
<p>TH2-F-2 11:25-11:40</p>	<p><b>Analysis of Breakdown Types in Miniaturized Isolation Structure and Approach to Solutions in 0.11<math>\mu</math>m BCD Process</b> Jae Sung Kim, Jun Woo Song, Jung Hyun Park, Yu Jin Noh, So Young Choi, Tae Gyu Ryu, Jeong Jae Park, Yong Keon Choi, and Sang Gi Lee Process Development Team 2, DB HiTek</p>
<p>TH2-F-3 11:40-11:55</p>	<p><b>Interlayer Dielectric Engineering in Vertical-Channel ITO Field-Effect Transistors for Bias-Reliable Operation</b> Hyeonho Gu<sup>1</sup>, Minho Park<sup>1</sup>, Hyeonjin Lee<sup>2</sup>, Yongwoo Lee<sup>1</sup>, and Jimin Kwon<sup>1,2</sup> <sup>1</sup>Department of Electrical Engineering, UNIST, <sup>2</sup>Graduate School of Semiconductor Materials and Devices Engineering, UNIST</p>
<p>TH2-F-4 11:55-12:10</p>	<p><b>Efficiency Enhancement of a Back-Illuminated Single-Photon Avalanche Diode with Increased Active Area</b> Seyoung Yook, Hyun-Seung Choi, Doo Hee Son, Woo-Young Choi, and Myung-Jae Lee Department of Electrical and Electronic Engineering, Yonsei University</p>
<p>TH2-F-5 12:10-12:25</p>	<p><b>Investigation of Crystallinity and Optical Properties of Ge on Si Prepared by DC and RF Sputtering in Comparison</b> So Won Son, Soomin Kim, and Seongjae Cho Department of Electronic Engineering, Ewha Womans University</p>



# 제 32회 한국반도체학술대회

The 32nd Korean Conference on Semiconductors

2025년 2월 12일(수)-14일(금) | 강원도 하이원리조트

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TH2-F-6 12:25-12:40	<b>Analysis on Effects of Ge Content on Intermodal Dispersion in <math>\text{Si}_{1-x}\text{Ge}_x</math> Waveguides for Ultrahigh-Speed Integrated Optical Interconnect</b> Soomin Kim, Sowon Son, Yeji Lee, and Seongjae Cho Department of Electronic and Electrical Engineering, Ewha Womans University
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