



## Future Normal in Semiconductor

2025-02-13(목), 10:55-12:40

좌장: 추후업데이트 예정

### F. Silicon and Group-IV Devices and Integration Technology분과

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

<p>초청</p> <p>TH2-F-1</p> <p>10:55-11:25</p>	<p><b>Intelligent Multimodal Sensors Integrating Gas, Barometric Pressure, and Temperature Sensing</b></p> <p>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></p> <p><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</p> <p>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></p> <p>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</p> <p>Process Development Team 2, DB HiTek</p>
<p>TH2-F-3</p> <p>11:40-11:55</p>	<p><b>Interlayer Dielectric Engineering in Vertical-Channel ITO Field-Effect Transistors for Bias-Reliable Operation</b></p> <p>Hyeonho Gu<sup>1</sup>, Minho Park<sup>1</sup>, Yongwoo Lee<sup>1</sup>, Jimin Kwon<sup>1,2</sup>, and Hyeonjin Lee<sup>2</sup></p> <p><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</p> <p>11:55-12:10</p>	<p><b>Efficiency Enhancement of a Back-Illuminated Single-Photon Avalanche Diode with Increased Active Area</b></p> <p>Seyoung Yook, Hyun-Seung Choi, Doo Hee Son, Woo-Young Choi, and Myung-Jae Lee</p> <p>Department of Electrical and Electronic Engineering, Yonsei University</p>
<p>TH2-F-5</p> <p>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></p> <p>So Won Son, Soomin Kim, and Seongjae Cho</p> <p>Department of Electronic Engineering, Ewha Womans University</p>
<p>TH2-F-6</p> <p>12:25-12:40</p>	<p><b>Analysis on Effects of Ge Content on Intermodal Dispersion in Si<sub>1-x</sub>Ge<sub>x</sub> Waveguides for Ultrahigh-Speed Integrated Optical Interconnect</b></p> <p>Soomin Kim, Sowon Son, Yeji Lee, and Seongjae Cho</p> <p>Department of Electronic and Electrical Engineering, Ewha Womans University</p>