



Future Normal in Semiconductor

2025년 2월 14일(금), 10:55-12:40

Room M(다이아몬드 I), 6층

E. Compound Semiconductors 분과

O65_[FM2-E] Optoelectronics

좌장: 이기원 교수(원광대학교), 이인근 교수(경북대학교)

<p>FM2-E-1 10:55-11:10</p>	<p>Quantum Efficiency Enhancement of LWIR Type-II Superlattice Detectors Using Guided-Mode Resonance SEUNG-YEOP AHN¹, JINHA LIM¹, DAE-MYEONG GEUM^{1,2}, DONGHO GWAK¹, KANG KO-KU³, JUN HO EOM³, YOUNG HO KIM³, and SANGHYEON KIM¹ ¹School of Electrical Engineering, KAIST, ²Department of Electronic Engineering, Inha University, ³3system, Inc.</p>
<p>FM2-E-2 11:10-11:25</p>	<p>중적외선 검출을 위한 표면 암전류 저감 T2SL 광검출기 array 제작 한재훈¹, 김상현², 송진동¹, 강준현³, 한일기³ ¹한국과학기술연구원, 양자기술연구단, ²한국과학기술원, ³한국과학기술연구원, 나노포토닉스 연구센터</p>
<p>FM2-E-3 11:25-11:40</p>	<p>Short-Wave Infrared Detection Using Quantum-Well Photo-HEMTs Yuna Lee^{1,2}, DaeHwan Ahn¹, Kyunghwan Kim¹, Kyul Ko¹, SungHan Jeon¹, Juwon Seo³, JoonHyun Kang³, Woo-Young Choi², and Jae-Hoon Han¹ ¹Center for Quantum Technology, KIST, ²Department of Electrical and Electronic Engineering, Yonsei University, ³Nanophotonics Research Center, KIST</p>
<p>FM2-E-4 11:40-11:55</p>	<p>Demonstration of ~1W High-output Power SWIR Laser Diodes Using an Optimized Sb-Based Laser Structure Eungbeom Yeon^{1,2}, Seungwan Woo^{1,3}, In-Hwan Lee², Daehwan Jung¹, and Won Jun Choi¹ ¹Center for Quantum Technology, KIST, ²Department of Materials Science and Engineering, Korea University, ³Department of Materials Science and Engineering, Seoul National University</p>
<p>FM2-E-5 11:55-12:10</p>	<p>Monolithically Integrated SWIR/MWIR Dual-band Infrared Thin-film Photodetector Seungwan Woo^{1,2}, Eungbeom Yeon¹, Ho Won Jang², Daehwan Jung¹, and Won Jun Choi¹ ¹Center for Quantum Technology, KIST, ²Department of Materials Science and Engineering, Seoul National University</p>



제 32회 한국반도체학술대회

The 32nd Korean Conference on Semiconductors

2025년 2월 12일(수)-14일(금) | 강원도 하이원리조트

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<p>FM2-E-6 12:10-12:25</p>	<p>자외선 이중대역내 선택적 검출을 위한 이중접합 GaN/Ga₂O₃ 기반 광 검출기 연구 김선재^{1,2}, 김형윤², 박지현², 전대우², 황완식¹ ¹한국항공대학교 신소재공학과, ²한국세라믹기술원 디스플레이소재센터</p>
<p>FM2-E-7 12:25-12:40</p>	<p>Optoelectronic Logic Operations based on the Poling Effect of CuO/BaTiO₃ Heterojunction Photodetectors with Ultra-Low Power Consumption Junhyung Cho¹, Wangmyung Choi¹, Taehyun Park^{1,2}, and Hocheon Yoo^{1,2} ¹Department of Semiconductor Engineering, Gachon University, ²Department of Electronic Engineering, Gachon University</p>