2025년 2월 12일(수)-14일(금) | 강원도 하이원리조트

Future Normal in Semiconductor

2025-02-14(금), 10:55-12:40

좌장: 추후업데이트 예정

E. Compound Semiconductors 분과

[FM2-E] Optoelectronics

	Quantum Efficiency Enhancement of LWIR Type-II Superlattice
FM2-E-1 10:55-11:10	Detectors using Guided-Mode Resonance SEUNG-YEOP AHN ¹ , JINHA LIM ¹ , DAE-MYEONG GEUM ^{1,2} , DONGHO GWAK ¹ , KANG KO-KU ³ , JUN HO EOM ³ , YOUNG HO KIM ³ , and SANGHYEON KIM ¹ ¹ School of Electrical Engineering, KAIST, ² Department of electronic engineering, Inha University, ³ i3system, Inc.
FM2-E-2 11:10-11:25	중적외선 검출을 위한 표면 암전류 저감 T2SL 광검출기 array 제작한재훈 ¹ , 김상현 ² , 송진동 ¹ , 강준현 ³ , 한일기 ³ 1한국과학기술연구원, 양자기술연구단, ² 한국과학기술원, ³ 한국과학기술연구원,나노포토닉스연구센터
FM2-E-3 11:25-11:40	Short-Wave Infrared Detection Using Quantum-Well Photo-HEMTs Yuna Lee ^{1,2} , DaeHwan Ahn ¹ , Kyunghwan Kim ¹ , Kyul Ko ¹ , SungHan Jeon ¹ , Juwon Seo ³ , JoonHyun Kang ³ , Woo-Young Choi ² , and Jae-Hoon Han ¹ ¹ Center for Quantum Technology, KIST, ² Department of Electrical and Electronic Engineering, Yonsei University, ³ Nanophotonics Research Center, KIST
	Comparison of Bi-Layer and Tri-Layer Structures in ZrO2/ZnO/HfO2
FM2-E-4 11:40-11:55	Synaptic Devices for Improved Neuromorphic Performance Eungbeom Yeon ^{1,2} , Seungwan Woo ^{1,3} , In-Hwan Lee ² , Daehwan Jung ¹ , and Won Jun Choi ¹ Center for Quantum Technology, KIST, ² Department of Materials Science and Engineering, Korea University, ³ Department of Materials Science and Engineering, Seoul National University
	Monolithically Integrated SWIR/MWIR Dual-Band Infrared Thin-Film
FM2-E-5 11:55-12:10	Photodetector Seungwan Woo ^{1,2} , Eungbeom Yeon ¹ , Ho Won Jang ² , Daehwan Jung ¹ , and Won Jun Choi ¹ ¹ Center for Quantum Technology, KIST, ² Department of Materials Science and Engineering, Seoul National University



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FM2-E-6 12:10-12:25	자외선 이중대역내 선택적 검출을 위한 이종접합 GaN/Ga ₂ O ₃ 기반 광 검출 기 연구 김선재 ^{1,2} , 김형윤 ² , 박지현 ² , 전대우 ² , 황완식 ¹ ¹한국항공대학교 신소재공학과, ² 한국세라믹기술원 디스플레이소재센터
FM2-E-7 12:25-12:40	Optoelectronic Logic Operations based on the Poling Effect of CuO/BaTiO ₃ Heterojunction Photodetectors with Ultra-Low Power Consumption Junhyung Cho ¹ , Wangmyung Choi ¹ , Taehyun Park ^{1,2} , and Hocheon Yoo ^{1,2} ¹ Department of Semiconductor Engineering, Gachon University, ² Department of Electronic Engineering, Gachon University