제 29회 한국반도체학술대회 The 29th Korean Conference on Semiconductors

2022년 1월 24일(월) ~ 26 일(수) | 강원도 하이원 그랜드호텔(컨벤션타워)

2022년 1월 26일(수), 09:00-10:30 Room K (다이아몬드 I, 6층)

F. Silicon and Group-IV Devices and Integration Technology 분과 [WK1-F] Photonic Device Technology

좌장: 조성재 교수(가천대학교)

| WK1-F-1 09:00-09:15 | Capacitance Matching for a Non-volatile SIS Optical Phase Shifter with an HZO MFM Capacitor Jae-Hoon Han ¹ , Seung-Min Han ^{1,2} , Dae-Hwan Ahn ¹ , Woo-Young Choi ² , and Jin-Dong Song ¹ ¹ Center for Opto-Electronic Materials and Devices, KIST, ² Department of Electrical and Electronic Engineering, Yonsei University |
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| WK1-F-2 09:15-09:30 | Free-Carrier Absorption-Assisted Photodetection Using A TiO_x/Ti/TiO_x Tri-Layer Film-Based Waveguide Bolometric Detector for Si Photonic Sensors Joonsup Shim ¹ , Jinha Lim ¹ , Dae-Myeong Geum ¹ , Jong-Bum You ² , Joon Pyo Kim ¹ , Woo Jin Baek ¹ , Jae-Hoon Han ³ , and SangHyeon Kim ¹ ¹ KAIST, ² NNFC, ³ KIST |
| WK1-F-3 09:30-09:45 | Non-Volatile Resonance Wavelength Shift of a Si PN Ring Resonator with an HZO Ferroelectric Capacitor Seung-Min Han ^{1,2} , Dae-Won Rho ² , Dae-Hwan Ahn ¹ , Jin-Dong Song ¹ , Woo-Young Choi ² , and Jae-Hoon Han ¹ ¹ Center for Opto-Electronic Materials and Devices, KIST, ² Department of Electrical and Electronic Engineering, Yonsei University |
| WK1-F-4 09:45-10:00 | Performance Estimation of a Highly Efficient and Low-loss KTN Optical Phase Shifter for Silicon Photonics Seong Ui An, Yu Shin Kim, Seung Hyeon Han, and Younghyun Kim Department of Photonics and Nanoelectronics, BK21 FOUR ERICA-ACE Center, Hanyang University |
| WK1-F-5 10:00-10:15 | Avalanche Mode LED based on CMOS Technology Doyoon Eom ^{1,2} , Woo-Young Choi ¹ , and Myung-Jae Lee ² ⁷ Department of Electrical and Electronic Engineering, Yonsei University, ² Post-Silicon Semiconductor Institute, KIST |
| WK1-F-6 10:15-10:30 | Guard Ring 최적화를 통한 Single-Photon Avalanche Diode의 성능 향상 Hyun-Seung Choi ^{1,2} , Youngcheol Chae ¹ , and Myung-Jae Lee ² ¹ Department of Electrical and Electronic Engineering, Yonsei University, ² Post-Silicon Semiconductor Institute, KIST |