



제 30회 한국반도체학술대회

The 30th Korean Conference on Semiconductors

2023년 2월 13일(월)~ 15일(수) | 강원도 하이원리조트(그랜드호텔 컨벤션타워)

2023년 2월 15일(수), 16:00-17:45

Room E (루비 II, 5층)

E. Compound Semiconductors 분과

[WE3-E] Compound Semiconductor III

좌장: 장우진 박사(ETRI)

WE3-E-1 16:00-16:15	ITGO TFTs with Substantially Reduced Subthreshold Swing through Sn Composition Control Using Plasma-Enhanced Atomic Layer Deposition Chi-Hoon Lee, Dong-Hyeon Lee, Dong-Gyu Kim, Minseok Kim, and Jin-Seong Park <i>Division of Materials Science and Engineering, Hanyang University</i>
WE3-E-2 16:15-16:30	P-GaN 게이트 AlGaIn/GaN 이중 접합 트랜지스터의 P-GaN 재활성화 공정 Yeo-Reum Yang, Jun-Hyeok Yim, Won-Ho Jang, and Ho-Young Cha <i>School of Electronic and Electrical Engineering, Hongik University</i>
WE3-E-3 16:30-16:45	Fabrication of Si-subcell for Monolithic III-V/Si Tandem Solar Cell with Higher J_{sc} and V_{oc} Eunkyo Ju ¹ , Yeonhwa Kim ^{1,3} , May Angelu Madarang ^{1,2} , Tae Soo Kim ^{1,4} , Won Jun Choi ¹ , and Daehwan Jung ^{1,2} ¹ Center for Opto-Electronics Materials and Devices, KIST, ² Division of Nano and Information Technology, University of Science and Technology (UST), ³ Department of Materials Science and Engineering, Korea University, ⁴ School of Electrical and Electronic Engineering, Yonsei University
WE3-E-4 16:45-17:00	Effect of Punctuated Growth on the Static Lasing Properties of 2 μm Quantumdash Lasers Rafael Jumar Chu ^{1,2} , Yeonhwa Kim ^{1,2} , Seungwan Woo ^{1,3} , Won Jun Choi ¹ , and Daehwan Jung ^{1,2} ¹ Center for Opto-Electronic Materials and Devices, KIST, ² Division of Nanoscience and Technology, KIST School, University of Science and Technology (UST), ³ Department of Materials Science and Engineering, Seoul National University
WE3-E-5 17:00-17:15	Direct Growth of a GaAs/Si Tandem Solar Cell with Optically Transparent InAlAs/GaAs Dislocation Filter Layers Yeonhwa Kim ^{1,2} , Rafael Chu ^{2,3} , Eunkyo Ju ² , May Angelu Madarang ^{2,3} , Won Jun Choi ² , In-Hwan Lee ¹ , and Daehwan Jung ^{2,3} ¹ Department of Materials Science and Engineering, Korea University, ² Center for Opto-Electronic Materials and Devices, KIST, ³ Division of Nano and Information Technology, KIST School, University of Science and Technology (UST)
WE3-E-6 17:15-17:30	Observation of Magnetic Properties in Proton-irradiated AlGaIn/GaN Heterostructure Dong-Seok Kim ¹ , Jun Kue Park ¹ , and Hye Min Jang ^{1,2} ¹ Korea Multi-purpose Accelerator Complex, KAERI, ² Division of Physics and Semiconductor Science, Dongguk University
WE3-E-7 17:30-17:45	Reduced Schottky Barrier of Metal/4H-SiC Junction with Ultrathin Aluminum Oxynitride Interlayer Junhyung Kim ¹ , Eunseok Hyun ¹ , Wonho Song ¹ , Jinyoung Park ¹ , Jaehyeong Jo ¹ , Jiwan Kim ¹ , Hyunjae Park ¹ , Gahyun Choi ² , and Kibog Park ^{1,3} ¹ Department of Physics, UNIST, ² KRISS, ³ Department of Electrical Engineering, UNIST