



제 29회 한국반도체학술대회

The 29th Korean Conference on Semiconductors

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

2022년 1월 25일(화), 10:45-12:30

Room H (하트 I, 6층)

E. Compound Semiconductors 분과 [TH2-E] Compound Semiconductor II

좌장: 차호영 교수(홍익대학교)

<p>TH2-E-1 10:45-11:00</p>	<p>Sub-30 nm In_xGa_{1-x}As High-Electron Mobility Transistors with a Record Combination of $f_T = 706$ GHz and $f_{max} = 962$ GHz Hyeon-Bhin Jo¹, Seung-Won Yun¹, Ji-Hoon Yoo¹, Hyeon-Seok Jung¹, Wan-Soo Park¹, In-Geun Lee¹, Sethu Merin George¹, Sang-Kuk Kim², Jacob Yun², Ted Kim², Takuya Tsutsumi³, Hiroki Sugiyama³, Hideaki Matsuzaki³, and Dae-Hyun Kim¹ ¹School of Electronic and Electrical Engineering, Kyungpook National University, ²QSI, ³NTT Device Technology Laboratories</p>
<p>TH2-E-2 11:00-11:30</p>	<p>Ga₂O₃ Schottky Barrier Diodes and Their Ultraviolet Photodiodes You Seung Rim Department of Intelligent Mechatronics Engineering, and Convergence Engineering for Intelligent Drone, Sejong University</p>
<p>TH2-E-3 11:30-11:45</p>	<p>Enhancement-mode β-Ga₂O₃ MOSFET with Source Field Plate Soo-jin Park, Chan-Hee Jang, Gökhan Atmaca, and Ho-Young Cha School of Electronic and Electrical Engineering, Hongik University</p>
<p>TH2-E-4 11:45-12:00</p>	<p>Enhancement of the on Current of InGaAs TFETs by Using an In-rich Pocket Ji-Min Baek¹, Seung-Won Yun¹, Su-Min Choi¹, Ji-Hoon Yoo¹, Hyo-Jin Kim¹, Hyo-Yeol Lee¹, Minwoo Kong², Joohee Oh³, Sang Tae Lee⁴, Hyunchul Jang⁴, Changhun Song^{4,5}, Kwang-Seok Seo^{2,4}, Dae-Hong Ko⁵, Chan-Soo Shin⁴, Hyungsub Kim³, Tae-Woo Kim⁶, and Dae-Hyun Kim¹ ¹School of Electronic and Electrical Engineering, Kyungpook National University, ²Seoul National University, ³Sungkyunkwan University, ⁴KANC, ⁵Yonsei University, ⁶University of Ulsan</p>
<p>TH2-E-5 12:00-12:15</p>	<p>Ultrabroadband Emission from an InP-based Laser Enabled by InAs Quantum Dashes and InGaAs Barriers Rafael Jumar Chu^{1,2}, Yeonhwa Kim^{1,2}, Hosung Kim³, Seungwan Woo^{1,4}, Won Jun Choi¹, and Daehwan Jung^{1,2} ¹Center for Opto-electronic Materials and Devices, KIST, ²Division of Nano and Information Technology, KIST School at University of Science and Technology, ³ETRI, ⁴Department of Materials Science and Engineering, Korea University</p>
<p>TH2-E-6 12:15-12:30</p>	<p>Accurate Extraction of drain-induced-barrier-lowering in FETs Su-Min Choi, In-Geun Lee, Hyeon-Bhin Jo, and Dae-Hyun Kim School of Electronic and Electrical Engineering, Kyungpook National University</p>