

2024년 1월 24일(수)-26일(금) | 경주화백컨벤션센터(HICO)

2024년 1월 26일(금), 15:40-17:25 Room E(105),1층

E. Compound Semiconductors 분과

[FE3-E] Compound Semiconductor - Modeling & Process

좌장: 이종원 박사(NNFC)

	46. 06E 4A(WWO)
FE3-E-1 15:40-15:55	Investigation on Carrier Transport Properties for AlGaN/GaN HEMTs on SiC from the L _g Scaling Behavior of Transconductance in Saturation Hyo-Jin Kim ¹ , In-Geun Lee ¹ , Wan-Soo Park ¹ , Hyeok-Jun Lee ¹ , Jae-Hak Lee ¹ , Kyounghoon Yang ² , and Dae-Hyun Kim ¹ ¹ Kyungpook National University, ² KAIST
FE3-E-2 15:55-16:10	Enhancing Carrier Transport In AlGaN/GaN HEMTs Through Structural Optimization And Transconductance Modeling Hyo-Joung Kim, Walid Amir, Surajit Chakraborty, Hyeon-Cheol Jeong, Myeong-Jun You, and Tae-Woo Kim School of Electrical and Electronic Engineering, University of Ulsan
FE3-E-3 16:10-16:25	Comprehensive Analysis of Self-heating Effects in Multi-finger GaNon-SiHEMTs Jaeyong Jeong ¹ , Sung Joon Choi ¹ , Joonsup Shim ¹ , Eunjung Kim ¹ , Seong Kwang Kim ¹ , Bong Ho Kim ¹ , Joon Pyo Kim ¹ , Yoon Je Suh ¹ , Nahyun Rheem ¹ , Woo jin Beak ¹ , Dae Myeong Geum ² , Yumin Koh ³ , Donghyun Kim ³ , and Sanghyeon Kim ¹ School of Electrical Engineering, KAIST, ² School of Electronic Engineering, Chungbuk National University, ³ KANC
FE3-E-4 16:25-16:40	The Impact of T-Gate Head Size on Radiation Tolerance in GaN HEMTs Sung-Jae Chang ¹ , Dong-Seok Kim ² , Hyun-Wook Jung ¹ , Dohyun Kim ¹ , Il-Gyu Choi ¹ , Youn-Sub Noh ¹ , Sang-Heung Lee ¹ , Seong-Il Kim ¹ , Ho-Kyun Ahn ¹ , Jong-Won Lim ¹ , and Dong-Min Kang ¹ ¹Photonic/Wireless Convergence Research Department, ETRI, ²Korea Multi-Purpose Accelerator Complex, KAERI
FE3-E-5 16:40-16:66	Extraction of Effective Mobility for In _{0.8} Ga _{0.2} As/In _{0.52} Al _{0.48} As QW HEMTs at Cryogenic Temperature Sang-Pyeong Son ¹ , Ji-Hoon Yoo ¹ , Seung-Woo Son ¹ , In-Geun Lee ¹ , Jae-Hak Lee ¹ , Kyounghoon Yang ² , and Dae-Hyun Kim ¹ ¹ Kyungpook National University, ² KAIST



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	AlGaN/GaN 이종 접합 트랜지스터의 격리 공정을 위한 이온주입 공정 연구
FE3-E-6	Jun-Hyeok Yim, Seung-Heon Shin, Min-Jeoung Kim, Dong-Ik Oh, Min-Keun Lee,
16:55-17:10	Min-Gi Jeong, and Ho-Young Cha
	School of Electronic and Electrical Engineering, Hongik University
FE3-E-7 17:10-17:25	Next Generation Infrared Detector based on Type-II Superlattice
	Hyun-Woo Jang ¹ , Jun-Ho Eom ¹ , Byung-Hyuk Kim ¹ , Han Jung ¹ , Sun Ho Kim ² , Jun
	Hee Choi ³ , Sang-Sun Yong ⁴ , and Young Ho Kim ¹
	¹ i3system, Inc., ² Agency of Defense Development, ³ KRIT, ⁴ Korea Aerospace
	Research Institute