



# 제25회 한국반도체학술대회

The 25<sup>th</sup> Korean Conference on Semiconductors

2018년 2월 5일(월)-7일(수), 강원도 하이원리조트 컨벤션 호텔

2018년 2월 7일(수), 09:00-10:30

Room A (태백, 5층)

## C. Material Growth & Characterization 분과

### [WA1-C] Material Growth and Characterization I

<p>WA1-C-1 09:00-09:30</p>	<p>[초청] 우주방사선에 의한 전자소자 내 결함 생성과 성능 손상 예측을 위한 시뮬레이션 및 실험연구 서유정<sup>1</sup>, 다네시와 미시라<sup>1</sup>, 강건욱<sup>2</sup>, 김지현<sup>3</sup>, 박유근<sup>1</sup> <sup>1</sup>차세대융합기술연구원, 서울대학교, <sup>2</sup>기계공학과, 연세대학교, <sup>3</sup>항공생명공학과, 고려대학교</p>
<p>WA1-C-2 09:30-09:45</p>	<p>High Quality AlGaIn/GaN HEMT Growth on Si-SiC Using High Temperature AlN Nucleation Layer Kyeongjae Lee, Uiho Choi, Jaeyeon Han, Taehoon Jang, Yongjun Nam, and Okhyun Nam <i>Department of Nano-Optical Engineering, Korea Polytechnic University</i></p>
<p>WA1-C-3 09:45-10:00</p>	<p>Surface Reconstruction and Equilibrium Shape of III-V Compound Semiconductors as a Function of Pressure and Temperature by ab-initio Thermodynamics In Won Yeu<sup>1,2</sup>, Gyuseung Han<sup>1,2</sup>, Cheol Seong Hwang<sup>2</sup>, and Jung-Hae Choi<sup>1</sup> <i><sup>1</sup>Center for Electronic Materials, KIST, <sup>2</sup>Department of Materials Science and Engineering, and Inter-university Semiconductor Research Center, Seoul National University</i></p>
<p>WA1-C-4 10:00-10:15</p>	<p>Growth of AlGaIn/GaN Heterostructure with Lattice-Matched AlIn(Ga)N Back Barrier Jeong-Gil Kim, Seung-Hyeon Kang, Jun-Hyeok Lee, Ki-Sik Im, Dong-Hyeok Son, Jung-Min Ju, Yong-Soo Lee, and Jung-Hee Lee <i>School of Electronics Engineering, Kyungpook National University</i></p>
<p>WA1-C-5 10:15-10:30</p>	<p>Prediction of the Atomic Configuration and Electronic Properties of Ga(As,Sb) Solid Solution Using Cluster Expansion Method Gyuseung Han<sup>1,2</sup>, In Won Yeu<sup>1,2</sup>, Mahesh Chandran<sup>3</sup>, Seung Cheol Lee<sup>3</sup>, Cheol Seong Hwang<sup>2</sup>, and Jung-Hae Choi<sup>1</sup> <i><sup>1</sup>Center for Electronic Materials, KIST, <sup>2</sup>Department of Materials Science and Engineering, and Inter-university Semiconductor Research Center, Seoul National University, <sup>3</sup>Indo-Korea Science and Technology Center</i></p>