



제 29회 한국반도체학술대회

The 29th Korean Conference on Semiconductors

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

2022년 1월 26일(수), 15:45-17:30

Room G (스페이드 II+III, 6층)

J. Nano-Science & Technology 분과

[WG4-J] Van der Waals Heterostructures

좌장: 손정인 교수(동국대학교), 이관형 교수(서울대학교)

<p>WG4-J-1 15:45-16:00</p>	<p>Atomic-Layer-Confined Multiple Quantum Wells Enabled by Monolithic Bandgap Engineering of Transition Metal Dichalcogenides Yoon Seok Kim¹, Sojung Kang², Jae-Pil So³, Jong Chan Kim⁴, Kangwon Kim⁵, Seunghoon Yang¹, Yeonjoon Jung⁶, Yongjun Shin⁶, Seongwon Lee³, Donghun Lee¹, Jin-Woo Park², Hyeonsik Cheong⁵, Hu Young Jeong⁷, Hong-Gyu Park^{1,3}, Gwan-Hyoung Lee^{6,8,9,10}, and Chul-Ho Lee^{1,11} <i>¹KU-KIST Graduate School of Converging Science and Technology, Korea University, ²Department of Materials Science and Engineering, Yonsei University, ³Department of Physics, Korea University, ⁴School of Materials Science and Engineering, UNIST, ⁵Department of Physics, Sogang University, ⁶Department of Materials Science and Engineering, Seoul National University, ⁷UNIST Central Research Facilities, UNIST, ⁸Research Institute of Advanced Materials, Seoul National University, ⁹Institute of Engineering Research, Seoul National University, ¹⁰Institute of Applied Physics, Seoul National University, ¹¹Department of Integrative Energy Engineering, Korea University</i></p>
<p>WG4-J-2 16:00-16:30</p>	<p>Beyond Binary 2D Metal-Chalcogenides: 2D Ternary Metal Chalcogenides and 2D Oxides Kibum Kang <i>Department of Materials Science and Engineering, KAIST</i></p>
<p>WG4-J-3 16:30-16:45</p>	<p>Van der Waals Schottky Gated Metal-semiconductor Field-effect Transistor at the Schottky-Mott Limit Yeon Ho Kim¹, Wei Jiang², Donghun Lee¹, Jong Chan Kim³, Woong Huh¹, Tae Soo Kim⁴, Jae-Pil So⁵, Hong-Gyu Park^{1,5}, Kibum Kang⁴, Hu Young Jeong³, Tony Low², and Chul-Ho Lee^{1,6} <i>¹KU-KIST Graduate School of Converging Science & Technology, Korea University, ²Department of Electrical and Computer Engineering, University of Minnesota, ³UNIST Central Research Facilities (UCRF) and Department of Materials Science and Engineering, UNIST, ⁴Department of Materials Science and Engineering, KAIST, ⁵Department of Physics, Korea University, ⁶Department of Integrative Energy Engineering, Korea University</i></p>
<p>WG4-J-4 16:45-17:00</p>	<p>유기금속화학기상증착법을 이용한 단일층 비스무스-산소-칼코겐 층상구조 성장 및 전기적 특성 분석 강민수¹, 채현준¹, 박현빈¹, 정한범¹, 정후영², 강기범¹ <i>¹한국과학기술원, ²울산과학기술원</i></p>
<p>WG4-J-5 17:00-17:15</p>	<p>Gate Modulation of 2D WSe₂-Based Field Effect Transistor with HSQ as Gate Dielectric via Remote Oxygen Plasma Treatment Hohyun Im, Dongryul Lee, Miae Kang, and Jihyun Kim <i>Korea University</i></p>
<p>WG4-J-6 17:15-17:30</p>	<p>레이저 조사를 통한 WO_x/WSe₂ 가스 센서 제작 및 NO₂ 감지 성능 향상 강미애, 김아영, 임호현, 김지현 <i>고려대학교</i></p>