

# 제23회 한국반도체학술대회

2016년 2월 22일(월)-24일(수), 강원도 하이원리조트

## D. Thin Film Process Technology 분과

Room B

태백II+III(5층)

2016년 2월 23일(화) 08:30-10:30

[TB1-D] 1D/2D Materials & Devices

좌장 : 민요섭(건국대학교), 조영진(삼성전자종합기술원)

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| TB1-D-1 | 08:30-08:45 | <b>Electronic Transport Properties of MoS<sub>2</sub>-pentacene Hybrid p-n Junction Devices</b><br>Jae-Keun Kim <sup>1</sup> , Kyungjune Cho <sup>1</sup> , Tae-Young Kim <sup>1</sup> , Jinsu Pak <sup>1</sup> ,<br>Younggul Song <sup>1</sup> , Barbara Yuri Choi <sup>1</sup> , Woong-Ki Hong <sup>2</sup> , and Takhee Lee <sup>1</sup><br><i><sup>1</sup>Department of Physics and Astronomy, Seoul National University,<br/><sup>2</sup>Jeonju Center, Korea Basic Science Institute</i>   |
| TB1-D-2 | 08:45-09:00 | <b>Growth of MoS<sub>2</sub> Thin Films by Atomic Layer Deposition</b><br>Jung Joon Pyeon <sup>1,2</sup> , Cheol Jin Cho <sup>1,3</sup> , Soo Hyun Kim <sup>1</sup> , Chong-Yun Kang <sup>1,2</sup> , and Seong Keun Kim <sup>1</sup><br><i><sup>1</sup>Center for Electronic materials, Korea Institute of Science and Technology, <sup>2</sup>KU-KIST Graduate school of Converging Science and Technology, <sup>3</sup>Department of Materials Science and Engineering, Seoul National University</i>   |
| TB1-D-3 | 09:00-09:15 | <b>Low-temperature Growth of Wafer-scale Layered MoS<sub>2</sub> by Chemical Vapor Deposition</b><br>Jihun Mun <sup>1</sup> , Chegal Won <sup>2</sup> , Jeong Won Kim <sup>3</sup> , Taesung Kim <sup>1,4</sup> , and Sang-Woo Kang <sup>2,5</sup><br><i><sup>1</sup>School of Mechanical Engineering, Sungkyunkwan University, <sup>2</sup>Division of Industrial Metrology, Korea Research Institute of Standards and Science, <sup>3</sup>Division of Convergence Technology, Korea Research Institute of Standards and Science, <sup>4</sup>SKKU Advanced Institute of Nanotechnology, Sungkyunkwan University, <sup>5</sup>Department of Advanced Device Technology, University of Science and Technology</i> |
| TB1-D-4 | 09:15-09:30 | <b>Xenon Flash Lamp-induced Multilayer Graphene Growth for Various Applications</b><br>Dae Yong Park and Keon Jae Lee<br><i>Department of Materials Science and Engineering, KAIST</i>   |
| TB1-D-5 | 09:30-09:45 | <b>Two-Dimensional Electron Gas in Oxide Heterostructures using Atomic Layer Deposition</b><br>Hae Jun Jung and Sang Woon Lee<br><i>Department of Physics and Division of Energy Systems Research, Ajou University</i>   |

The 23<sup>rd</sup> Korean Conference on Semiconductors (KCS 2016)

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**TB1-D-6      09:45-10:00      Ultra High-Sensitive Silicon Multi-nanowire Double-Gate Ion-Sensitive Field-Effect Transistors for Biomolecular Detection**  
Cheol-Min Lim<sup>1</sup>, In-Kyu Lee<sup>1</sup>, Ki Joong Lee<sup>2</sup>, Young Kyoung Oh<sup>2</sup>,  
Yong-Beom Shin<sup>2</sup>, and Won-Ju Cho<sup>1</sup>  
*<sup>1</sup>Department of Electronic Materials Engineering, Kwangwoon University, <sup>2</sup>Korea Research Institute of Bioscience and Bionano research center*