



The 10th International Conference on Advanced Materials and Devices

ICAMD2017

December 5~8, 2017 Ramada Plaza Jeju Hotel, Jeju, Korea

Organized by

- Applied Physics Division, The Korean Physical Society
- Center for Artificial Low Dimensional Electronic Systems, Institute for Basic Science
- Korean Graphene Society
- Quantum Metamaterials Research Center
- Van der Waals Materials Research Center
- Center for Topological Matter
- Institute of Innovative Functional Imaging, Chung-Ang University
- Center for Correlated Electron Systems, Institute of Basic Science
- Center for Integrated Nanostructure Physics, Institute of Basic Science
- Center for 2^d Hybrid Dimensional Devices
- Center for Advanced X-ray Science

Sponsored by

- The Korean Federation of Science and Technology Societies
- Korean Tourism Organization
- Jeju Convention & Visitors Bureau

December 08 (Fri), 2017

Poster Session 3

9:00-10:30

8F Tamna Hall & Lobby

2D + vdW nano

Po-2D17-042

Stable exfoliation of 2D materials through electrochemical method

Joonhyub Kim

(Korea University)

Po-2D17-043

Polarized Raman spectroscopy of ReSe₂

Keunui Kim*, Soo Yeon Lim*, Hyeonsik Cheong*, Jung Hwa Kim**, Zonghoon Lee**

*(*Sogang University, **Ulsan National Institute of Science and Technology)*

Po-2D17-044

Direct molecular-scale observation of C70 amorphous structure and single-molecule dynamics on graphene

Jeongheon Choe*, Yangjin Lee*, Sungwoo Lee**, Jungwon Park**, Gun-Do Lee**, Chae Un Kim*, Kwanpyo Kim*

*(*Ulsan National Institute of Science and Technology, **Seoul National University)*

Po-2D17-045

Single-step synthesis of wrinkled MoSe₂ thin films by co-evaporation

Seung Jun Yang*, Young Jun Chang*, Yang Jin Lee**, Hyuk Jin Kim*, Jin Sik Choi***, Kwan Pyo Kim**

*(*University of Seoul, **Ulsan National Institute of Science and Technology, ***Konkuk University)*

Po-2D17-046

Exciton peaks shift in monolayer WSe₂ films with temperature

Jonghyeon Kim*, Hee Seong Kang**, Jangwon Kim*, Chul-Ho Lee**, Jae Hoon Kim*

*(*Yonsei University, **Korea University)*

Po-2D17-047

Systematic Study on Temperature Dependence of Optical Properties of 2D MoSe₂

by Spectroscopic Ellipsometry

V. L. Le*, H. G. Park*, T. J. Kim*, H. T. Nguyen*, H. U. Kim*, S.-K. Cha*, F. Ullah**, Y. S. Kim**, M.-J. Seong***, I. K. Han*, Y. D. Kim*

*(*Kyung Hee University, **University of Ulsan, ***Chung-Ang University)*

Po-2D17-048

Orientation of ReS₂ identified by polarized Raman spectroscopy

Yun Choi*, Jungcheol Kim*, Jung Hwa Kim**, Zonghoon Lee**, Hyeonsik Cheong*

*(*Sogang University, **Ulsan National Institute of Science and Technology)*

Po-2D17-049

Broadband spectroscopy for 2-dimensional transition metal dichalcogenides

Soo Yeon Lim, Kangwon Kim, Hyeonsik Cheong

(Sogang University)

Po-2D17-050

Nanoscale optical characteristics and anti-ambipolar field effect transistors of tetracene/ MoS₂ hybrid

Hyeon Jung Park*, Cheol-Joon Park*, June Young Kim*, Min Su Kim**, Jeongyong Kim***, Jinsoo Joo*

*(*Korea University, **Institute for Basic Science, ***Sungkyunkwan University)*

Po-2D17-051

Visible light detection behaviors of MoS₂/Si and WS₂/Si heterojunctions

Soyeong Kwon*, Jungeun Song*, Yonghun Kim**, Byungjin Cho***, Dong-Wook Kim*

*(*Ewha Womans University, **Korea Institute of Materials Science, ***Chungbuk National University)*

Po-2D17-052

Interlayer Vibrational Modes of Few-layer 2H-SnS₂ by Raman Spectroscopy

Tharith Sriv, Kangwon Kim, Hyeonsik Cheong

(Sogang University)

Po-2D17-053

Microscopic surface properties of MoS₂ on terrace structured Nb:STO

Woo Young Yoon, Hye-Jin Jin, William Jo

(Ewha Womans University)