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# ICAMD2017

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**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
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- Center for Integrated Nanostructure Physics, Institute of Basic Science
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- Center for Advanced X-ray Science

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Po-2D17-003

Interfacial effect of WS<sub>2</sub>/WSe<sub>2</sub> p-n junction on electrical and optical properties

Soo Ho Choi, You Joong Kim, Tae Ho Kim, Woochul Yang

(Dongguk University)

Po-2D17-004

Exciton resonance and intervalley exchange in Raman spectra of WS<sub>2</sub>

Jinho Yang, Jae-Ung Lee, Kangwon Kim, Hyeonsik Cheong

(Sogang University)

Po-2D17-005

Field effect transistor and photovoltaic characteristics of MoS<sub>2</sub>/rubrene hybrid device

Cheol-Joon Park\*, Hyeon Jung Park\*, Jubok Lee\*\*, Jae Yoon Lee\*, Chul-Ho Lee\*

Jeongyong Kim\*\*, Jinsoo Joo\*

(\*Korea University, \*\*Sungkyunkwan University)

Po-2D17-006

Defect Passivation of Transition Metal Dichalcogenides via a Charge transfered Van-der-Waals interface.

Jun Hong Park\*, Atresh Sanne\*\*, Yuzheng Guo\*\*\*, Martin Amani\*\*\*\*, Kehan Zhang\*\*\*\*, Joshua A. Robinson\*\*\*\*, Ali Javey\*\*\*\*, John Robertson\*\*\*, Sanjay K. Banerjee\*\*, Andrew C. Kummel\*\*\*\*\*

(\*Institute for Basic Science, \*\* University of Texas at Austin, \*\*\*University of Cambridge, \*\*\*\*University of California at Berkeley, \*\*\*\*\*Pennsylvania State University, \*\*\*\*\*University of California, San Diego)

Po-2D17-007

Synaptic plasticity in 2D layered CrPS<sub>4</sub> CBRAM

Mi Jung Lee\*, Sangik Lee\*, Sungmin Lee\*\*, K. Balamurugan\*\*, Chansoo Yoon\*, Jun Tae Jang\*\*\*, Sung-Hoon Kim\*\*\*\*, Jae-Pyoung Ahn\*\*\*\*, Dae Hwan Kim\*\*\*, Je-Geun Park\*\*, Bae Ho Park\*

(\*Konkuk University, \*\*Seoul National University, \*\*\*Kookmin University, \*\*\*\*Korea University, \*\*\*\*\*Advanced Analysis Center Korea Institute of Science and Technology)

Po-2D17-008

Band structure measurement of epitaxial ReSe<sub>2</sub> monolayer

Byoung Ki Choi\*, Soren Ulstrup\*\*, Marcin Mucha-Kruczynski\*\*\*, Sooyeon Lim\*\*\*\*, Hyeonsik Cheong\*\*\*\*, Young Jun Chang\*

(\*University of Seoul, \*\*University of Arhus, \*\*\*University of Bath, \*\*\*\*Sogang University)

Po-2D17-009

MoS<sub>2</sub> Nanosheet-Amorphous InGaZnO Thin Film Hybrid PN Diode and CMOS

Inverters

Hee-Gil Lee, Silah Lee, Seongil Im

(Dongguk University)

Po-2D17-010

Direct absorption of MoS<sub>2</sub> monolayers on Si wafers with thin SiO<sub>2</sub> layers

Jinoh Kim\*, Bora Kim\*, Jin-Woo Cho\*\*, Sun-Kyung Kim\*\*, Seokhyun Yoon\*, Dong-Hwan Kim\*

(\*Sung Mokans University, \*\*Kyung Hee University)

Po-2D17-011

Polarization-mediated tuning of electrical properties of MoS<sub>2</sub> on ferroelectricMoS<sub>2</sub> thin films

Hee-Jin Jin, Woo Young Yoon, William Jo

(\*Sung Mokans University)

Po-2D17-012

Antiferromagnetic phase transitions of few-layer NiPS<sub>3</sub> by using Raman spectroscopy

Kangwon Kim\*, Soo Yeon Lim\*, Jae-Ung Lee\*, Sungmin Lee\*\*, Tae Yun Kim\*\*, Ji Hoon Park\*\*, Pilkwang Kim\*\*, Cheol-Hwan Park\*\*, Je-Geun Park\*\*, Hyeonsik Cheong\*

(\*Sogang University, \*\*Seoul National University)

Po-2D17-013

Gate-invariant large nonlocality in CVD graphene

Mário Ribeiro\*, Stephen R. Power\*\*, Stephan Roche\*\*, Luis E. Hueso\*, Fèlix Casanova\* (ICMnanoGUNE, \*\*Catalan Institute of Nanoscience and Nanotechnology)

Po-2D17-014

Temperature dependence of exciton peaks in monolayer MoSe<sub>2</sub> films

Kangwon Kim, Jae-Hun Jeong, Jae Ha Kim, Mann-Ho Cho, Jae Hoon Kim

(Dongguk University)

Po-2D17-015

Oxidation induced grain boundary observation of chemical vapor deposited graphene

Jung-Young Lee, Ji-Hwan Lee, Min Jung Kim, Aloysius Soon, Gwan-Hyung Lee

(Dongguk University)