

[TuC2] 2D Materials II

Date / Time	July 3 (Tue.), 2018 / 13:30-15:35
Place	Room C (#107)
Session Chair	Mats Jonson (Univ. of Gothenburg, Sweden) Sang Ouk Kim (KAIST, Korea)

TuC2-I1 (Invited) 13:30-13:55

Dimensional Organic Structures for Energy Conversion and Storage

Javeed Mahmood and Jong-Beom Baek
UNIST, Korea

TuC2-I2 (Invited) 13:55-14:20

Dirac Semimetal Phase of Two-Dimensional Black Phosphorus

Hyoung Joon Choi
Yonsei Univ., Korea

TuC2-O3 14:20-14:35

Highly A Symmetric Photocurrent in Few-Layer WSe₂ Transistor Achieved by Site-Selective Dual Doping

Seungpil Ko¹, Junhong Na², Young-Sun Moon¹, Ute Zschieschang², Rachana Acharya², Hagen Klauk², Gyu-Tae Kim¹, Marko Burghard², and Klaus Kern²
¹Korea Univ., Korea, ²Max-Planck-Inst. for Solid-State-Research, Germany

TuC2-O4 14:35-14:50

Photoemission Surface Mapping of Single- and Poly-Crystalline Transition-Metal Dichalcogenides Monolayers

Soohyung Park¹, Thorsten Schultz¹, Patrick Amsalem¹, Ali Han², Areej Aljarb², Xiaomin Xu¹, Paul Beyer¹, Andreas Opitz¹, Lain-Jong Li², and Norbert Koch¹
¹Humbolt Univ. of Berlin, Germany, ²KAUST, Saudi Arabia

TuC2-O5 14:50-15:05

Highly Efficient Visible-driven Photocatalytic Water Splitting of CdTe QDs anchored MoS₂ Nanosheets

S. V. Prabhakar Vattikuti
Yeungnam Univ., Korea

TuC2-O6 15:05-15:20

In-Plane Anisotropy of Upper Critical Field in Layered Transition Metal Dichalcogenide NbSe₂

Syuma Yasuzuka¹, Shinya Uji², Shiori Sugiura², Taichi Terashima², Yoshio Nogami³, Koichi Ichimura⁴, and Satoshi Tanda⁴
¹Hiroshima Inst. of Tech., Japan, ²NIMS, Japan, ³Okayama Univ., Japan, ⁴Hokkaido Univ., Japan

TuC2-O7 15:20-15:35

Epitaxial, Wafer-Scale, Two-Dimensional Superconductor Encapsulated by Graphene

Samuel (Alejandro) Lara-Avila¹, Kyung Ho Kim¹, Hans He¹, Domenico Montemurro¹, Olof Bäcke¹, Mats Halvarsson¹, Thomas Seyller², Alexei Zakharov³, Rositsa Yakimova⁴, and Sergey Kubatkin¹
¹Chalmers Univ. of Tech., Sweden, ²Chemnitz Technical Univ., Germany, ³Lund Univ., Sweden, ⁴Linköping Univ., Sweden