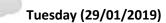


CONFERENCE & EXHIBITION TOKYO (JAPAN) - JANUARY 29-30, 2019

## TENTATIVE PROGRAM (as of 22/01/2019)

K: Keynote lecture / I: Invited Lecture / O: Oral contribution



08:00 – 08:40: Registration

08:40 – 08:50: Opening Ceremony - Welcome and Introduction.

08:50 – 09:30: <b>Sumio Iijima</b> (Meijo University, Japan) 09:30 – 10:00: <b>Suguru Noda</b> (Waseda University, Japan) Production and Functionalization of Carbon Nanotubes for Energy Devices	P K
10:00– 10:45: Coffee Break / Poster Session & Exhibition	
10:45 – 11:15: <b>Danny Porath</b> (The Hebrew University of Jerusalem, Israel) From 1D DNA nanowires to 2D nanotube networks	I
11:15 – 11:30: <b>Hisashi Sugime</b> (Waseda University, Japan) An interdigitated electrode with dense carbon nanotube forests on conductive supports for electrochemical biosensors	0
11:30 – 11:50: <b>Yutaka Ohno</b> (Nagoya University, Japan) Carbon nanotube thin films for wearable electronics application	I
11:50 – 12:05: <b>Atsuko Sekiguchi</b> (National Institute of Advanced Industrial Science and Tech, Japan) Lightweight high-performance Cu/Carbon Nanotube composites	0
12:05 – 12:35: Kazutomo Suenaga (AIST, Japan) Structures and properties of one-dimensional materials	I
12:35 – 14:00: Cocktail Lunch (offered by 1and2DM 2019)	
14:00 – 14:30: Yoshihiro Iwasa (University of Tokyo, Japan)	К
Berry Phase Controlled Optical Responses in 1D & 2D Transition Metal Dichalcogenides 14:30 – 14:45: <b>Ryosuke Senga</b> (AIST, Japan)	0
Nanoscale optical and vibrational spectroscopy of low-dimensional materials 14:45 – 15:00: <b>Pranjal Kumar Gogoi</b> (National Institute of Advanced Industrial Science and Technology (AIST), Japan)	0
Momentum Conservation Driven Ultrafast Charge Transfer Dynamics of Interlayer Excitons in vdW Heterostructure	
15:00 – 15:15: Victor Ryzhii (Tohoku University, Japan)	0
Vertical injection in black phosphorus-graphene heterostructures for terahertz lasing 15:15 – 15:45: <b>Taiichi Otsuji</b> (Tohoku University, Japan) Graphene-based van der Waals Heterostructures towards a New Type of Quantum-Cascade Terahertz Lasers	К

15:45 – 16:15: *Coffee Break / Poster Session & Exhibition* 16:15 – 16:45: Poster Session

16:45 – 17:15: <b>Sung-Yool Choi</b> (KAIST, Korea)	I
Engineering graphene electrodes for flexible display applications	
17:15 – 17:45: Francesco Bonaccorso (IIT-Graphene Labs / BeDimensional, Italy)	К
A step forward toward the large scale production and industrialization of graphene	
17:45–18:00: Ryszard J. Kaleńczuk (West Pomeranian University of Technology, Poland)	0
MOF derived interconnected structured porous carbon for high-performance supercapacitor	
18:00 – 18:15: <b>Wei Weng</b> (Donghua University, China)	0
Graphene Composite Fibers for Flexible Supercapacitors	
18:15 – 18:30: <b>Siamak Eqtesadi</b> (Abalonyx AS, Norway)	0
Thermally reduced graphene oxide for CO2 capture technology	

# Wednesday (30/01/2019)

#### Parallel Session - I

09:00 – 09:15 <b>: Nojoon Myoung</b> (Chosun University, South Korea) Valley-Mixing-Induced Splitting in Conductance Resonances through a Single Magnetic Quantum	0
Dot in Graphene	
09:15 – 09:30: <b>Mustafa Eginligil</b> (Nanjing Tech University, China)	0
Magneto-photoconductivity in 2D strong spin-orbit coupling systems	
09:30 – 09:45: <b>Jaedong Lee</b> (DGIST, South Korea)	0
Creation and manipulation of valley magnetic domain toward valleytronic current processing	
09:45 – 10:00: Adolfo De Sanctis (University of Exeter, UK)	0
Laser-irradiated 2D materials: a new path towards straintronic devices	
10:00– 10:20: Bruno Dlubak (Unite Mixte de Physique CNRS-Thales, France)	Ι
Introducing 2D Materials for Magnetic Tunnel Junctions	

#### 10:20 – 10:50: Coffee Break

10:50 – 11:10: <b>Shinsuke Kashiwagi</b> (HORIBA Scientific, Japan) Correlated Tip-Enhanced Optical Spectroscopy and SPM on 2D materials	Ι
11:10 – 11:25: <b>Aina Reich</b> (neaspec GmbH, Germany) Scattering-type scanning near-field optical microscopy as a versatile tool for the characterization of 1D and 2D materials	0
11:25 – 11:40: Koji Harano (The University of Tokyo, Japan) Direct Electron Microscopic Analysis of Individual Reaction Events in Single-Walled Carbon Nanotube	0
11:40 – 11:55: <b>Hyunmin Kim</b> (DGIST, South Korea) Transient SHG microscopy on atomically thin 2D materials	0
<ul> <li>11:55 – 12:10: Yukihiro Endo (University of Tokyo, Japan)</li> <li>Structure analysis of Ca-intercalated bilayer graphene by total-reflection high-energy positron diffrac</li> <li>12:10 – 12:30: Yong-Hoon Kim (KAIST, Republic of Korea)</li> </ul>	O tion I
Quantum-hybridization negative differential resistance from halide perovskite nanowires and vertica graphene junctions	I

### Parallel Session - II

09:00 - 09:15: Karolina Drogowska (J. Heyrovsky Institute of Physical Chemistry,OCzech Academy of Sciences, Czech Republic)Functionalization of the CVD-grown graphene: towards the on-surface chemistry reactions and motionO00:15 - 09:30: Ewa Mijowska (West Pomeranian University of Technology Szczecin Poland, Poland)OCarbon based nanostructures - thermal , electrochemical, adsorption, photocatalytical responseO

09:30 – 09:45: <b>Mochen Li</b> (Waseda University, Japan) Facile Catalyst Deposition Using Mist for Fluidized-Bed Production of Sub-Millimeter-Long Carbon Nanotubes	0
09:45 – 10:00: Daiyu Kondo (Fujitsu Laboratories Ltd., Japan)	0
Thermal interface materials made of vertically-aligned multi-walled carbon nanotubes	
10:00 – 10:20: Renzhi Ma (MANA/NIMS, Japan)	I
Exploration of Single-layer Nanosheets and Their Assemblies with Emergent Properties	
10:20 – 10:50: Coffee Break	
10:50 – 11:05: <b>Yinfeng Li</b> (Shanghai Jiao Tong University, China)	0
Multiscale modeling on the mechanical properties of graphene based two dimensional nanostructures	5
11:05 – 11:20: <b>Feng Liu</b> (Kwansei Gakuin University, Japan)	0
Topological dipoles and quadrupoles	
11:20 – 11:35: Antonio Pantano (Universita degli Studi di Palermo, Italy)	0
Calculation of the Electromechanical Properties of CNTs Under Deformation by Means of a Novel	
Numerical Model	
11:35 – 11:50: <b>Zeljko Sljivancanin</b> (University of Belgrade Vinca Institute of Nuclear Sciences, Serbia)	0
Ab-initio modeling of metal interaction with 2D materials	
11:50 – 12::05 <b>Sung-Ho Salk</b> (POSTECH, South Korea)	0
Universal Characters of Superconductivity in the 2-D (Quasi-2-D) Systems of Strongly Correlated	
Electrons based on the SU(2) Gauge Theory of Slave-boson Approach to t-J Hamiltonian	
12:05 – 12:25: <b>Satoshi Moriyama</b> (MANA, Japan)	Ι

Topological Transport in Graphene/hBN Superlattices

### Parallel Session - III

09:00 – 09:20 <b>: Rezal Khairi Ahmad</b> (NanoMalaysia Berhad, Malaysia)	I.
National Graphene Action Plan: Progress and commercialisation opportunities	
09:20 – 09:40: <b>Andy Zhou</b> (Grafoid Inc., Canada)	I
Grafoid and Focus Graphite: A Global Mine-to-Market Platform for Green Technology	
09:40– 10:00: Hasegawa Masataka (AIST, Japan)	I
High-throughput synthesis of graphene by plasma CVD and its commercialization	
10:00 – 10:20: <b>Rune Wendelbo</b> (Abalonyx, Norway)	I
Graphene Oxide and Graphene Oxide Derivatives, Properties and Applications	

10:20 – 10:50: Coffee Break

10:50 – 11:10: <b>Shintaro Sato</b> (Fujitsu Laboratories Ltd., Japan)	I
Synthesis and application of carbon nanotubes, graphene, and graphene nanoribbons	
11:10 – 11:30: Mindaugas Lukosius (Institute for High Performance Microelectronics, Germany)	I
Graphene synthesis on 200 mm wafers	
11:30 – 11:45: <b>Blerina Gjoka</b> (Abalonyx As, Norway)	0
Functionalization of Graphene Oxide for Industrial Applications	
11:45 – 12:00: <b>Muhammad Zahid</b> (Istituto Italiano di Tecnologia, Italy)	0
Multilayer-Graphene Fillers for Improved Gas Barrier Properties in Polymer Composites	
12:00 – 12:15: Azadeh Motealleh (Abalonyx AS, Norway)	0
Development of nitrogen doped graphene derivatives for renewable nano-structured membrane	
for direct alkaline ethanol fuel cell	
12:15–12:30: Daria Andreeva-Baeumler (CA2DM / NUS, Singapore)	0
Acoustic Implosions for Synthesis of Carbon Materials and Oscillations between Diamond and	
Graphite phases	

12:30 – 14:30. Lunch

14:00 – 14:40: Kostya Novoselov (University of Manchester, UK) Materials in the Flatland

К
К

15:40 – 16:10: *Coffee Break* 

16:10 – 16:40: Stephan Roche (ICREA/ICN2, Spain)	К
Charge, Thermal and Spin Transport in Graphene Composites & Polycrystalline Heterostructures	
16:40 – 17:10: Akimitsu Narita (Max Planck Institute for Polymer Research, Germany)	I
Bottom-up Chemical Synthesis of Atomically Precise Graphene Nanoribbons and Their Potentials	
17:10 – 17:40: <b>Katsunori Wakabayashi</b> (Kwansei Gakuin University, Japan)	К
Topological Properties of Graphene and Related 2D Materials	
17:40 – 18:10: Mauricio Terrones (Shinshu University & The Pennsylvania State University, Japan/US	A) K
Doped Graphene for Enhanced Raman Spectroscopy	

18:10: Closing and 1and2DM2020 announcement