



POSTERS LIST

LOOK UP YOUR NAME ON THE LIST AND GO TO THE INDICATED PANEL POSTER

POSTERS SCHEDULE

Session A (posters number 1-50)

From Tuesday morning (September 19) to Wednesday (September 20) just after the afternoon coffee break

You need to make sure you remove your poster at 16h00 LATEST on September 20

- Biomedical applications of graphene and other two-dimensional materials
- Synthesis of graphene and other two-dimensional materials
- Optical properties and spectroscopy of graphene and other two-dimensional materials
- Electrical properties of graphene and other two-dimensional materials

Session B (posters number 51-97)

From Thursday morning (September 21) to Friday (September 22) just after lunch

You need to make sure you remove your poster at 14h30 LATEST on September 22

- Chemistry and electrochemistry of graphene and other two-dimensional materials
- Devices constructed from of graphene and other two-dimensional materials
- Energy applications of graphene and other two-dimensional materials
- Mechanical properties of graphene and other two-dimensional materials
- Microscopy of graphene and other two-dimensional materials
- Other applications of graphene and other two-dimensional materials
- Theory of graphene and other two-dimensional materials
- Thermal properties of graphene and other two-dimensional materials

POSTERS PRESENTATION

We recommend the poster presenters to stand in front of their poster in order to enhance fruitful discussions – at designated time, evaluators will pass by to discuss the work. Posters should be presented during the designated sessions (A & B).

OTHER INFO

To each poster will be assigned a number (see below). You will find double side tape in a box at the Registration Desks to hang your poster. Please note 4 round double side tape might be enough to hang the poster.



POSTERS LIST

| PRESENTING AUTHOR | | TOPIC | POSTER TITLE | NUMBER |
|-------------------|----------------|-------------|---|--------|
| Ahmed | Faisal | South Korea | Electrical properties Study of High Electric Field Breakdown Thermometry in Black Phosphorus Field Effect Transistor | 32 |
| Aikawa | Andrew | USA | Synthesis Atomically Precise Graphene Nanoribbon Heterojunctions from a Single Molecular Precursor | 5 |
| Ando | Atsushi | Japan | Devices Morphology and electrical studies on MoS ₂ field-effect transistor irradiated with N ₂ plasma | 56 |
| Baek | Jinwook | South Korea | Synthesis Direct Growth of Polymer-Derived Graphene via Mobile Hot-Wire-Assisted CVD | 6 |
| Baldi | Giulio | Singapore | Optical properties & spectroscopy Unveiling the role of excitons with ab initio principles calculation for Mono- and Multi-Layered Black Phosphorus | 16 |
| Bogaert | Kevin | USA | Synthesis Transition Metal Dichalcogenides with Spatially Controlled Composition | 7 |
| Bylinkin | Andrey | Russia | Optical properties & spectroscopy Inelastic electron tunneling accompanied by plasmon emission in graphene-based heterostructures | 17 |
| Chadha | Gaganpreet | India | Electrical properties Doped phosphorene nanosheet based gas sensor: an application to NH ₃ | 33 |
| Chen | Ding-Rui | Taiwan | Chemistry & electrochemistry Dielectrophoretic Decoration of Graphene Grain Boundaries | 51 |
| Chen | Zhongxin | Singapore | Chemistry & electrochemistry Interface confined hydrogen evolution reaction in zero valent metal nanoparticles-intercalated molybdenum disulfide | 52 |
| Chen | Hao | Singapore | Devices Gate controlled conducting channels in bilayer graphene | 57 |
| Chen | Yi | USA | Microscopy Local probe studies of charge density wave in monolayer TaSe ₂ | 70 |
| Chen | Hao-Ting | Taiwan | Synthesis Graphene defect formation during CVD growth | 8 |
| Chen | Wei-Hung | Taiwan | Synthesis Ultrafast synthesis of high quality graphene by slow gas flow | 9 |
| Chen | Chuan | Singapore | Theory Doping dependence of an excitonic-driven CDW phase in 1TTiSe ₂ | 79 |
| Chen | Chang-Hsiao | Taiwan | Thermal properties Heat Dissipation from Copper Vapor Chamber by CVD Graphene | 94 |
| Dhakal | Krishna Prasad | South Korea | Optical properties & spectroscopy Local Strain Induced Bandgap Modulation and Photoluminescence Enhancement of Multilayer Transition Metal Dichalcogenides | 18 |
| Dubey | Nileshkumar | Singapore | Biomedical applications Effect of graphene coated titanium via wet and dry transfer technique on collagen synthesis by pre-osteoblast | 1 |
| Furutani | Sho | Japan | Theory Electronic properties of two-dimensional molecular sheets of chemically decorated fullerenes under an external electric field | 80 |
| Gao | Yanlin | Japan | Theory Electrostatic properties of edge-functionalized graphene nanoribbon under the lateral electric field | 81 |
| Gendensuren | Bolormaa | South Korea | Energy applications Crosslinked Poly(acrylamide-co-acrylonitrile) as an efficient binder for Silicon/Graphite anodes of Lithium ion batteries | 65 |
| Horie | Ayato | Japan | Electrical properties Electrical Conduction of Folded Graphene in Magnetic Fields | 34 |
| Hoshi | Naoki | Japan | Electrical properties Detecting Vortices in Thin Layered Superconductor NbSe ₂ Using Small Tunnel Junctions | 35 |
| Huang | Yu-Ting | Taiwan | Electrical properties Enhanced Transport Characteristics of Few-layer Indium Selenide Transistors with Extended Stability Using an Indium Oxide Encapsulated Layer | 36 |
| Huder | Loïc | France | Microscopy Spectroscopic signature of uniaxial relative strain in twisted graphene layers | 71 |
| Huder | Loïc | France | Synthesis Single-step growth of graphene and electrical contacts on SiC | 10 |
| Jiang | Yiqun | Singapore | Other applications Nitrogen-doped graphene hydrogels as potential adsorbents and photocatalysts for environmental remediation | 74 |
| Joe | Minwoong | South Korea | Mechanical properties Piezomagnetic response in CrPS ₄ monolayer | 68 |
| Jung | Jong Hyun | South Korea | Theory Period-Doubling Bifurcations of Graphene Wrinkles on a Soft Substrate: A Numerical Study | 82 |
| Kang | Seoung-Hun | South Korea | Thermal properties Thermal Transport Properties of Single-Layer Gray-Arsenic | 95 |
| Kawai | Hiroyo | Singapore | Theory Interlayer coupling in WS ₂ -MoS ₂ heterostructure with different stacking angles: A first- principles study | 83 |
| Khan | Muhammad Atif | South Korea | Devices Self-Biased Diode Based on MoS ₂ | 58 |
| Kim | Changsik | South Korea | Electrical properties Fermi Level Pinning at Electrical Metal Contacts of Monolayer Molybdenum Dichalcogenides | 37 |



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| PRESENTING AUTHOR | | TOPIC | POSTER TITLE | NUMBER |
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| Kim | Hyun-Jung South Korea | Electrical properties | Contrasting structural and electrical phase transition behaviors of layered transition metal dichalcogenides MoTe ₂ and WTe ₂ | 38 |
| Kim | Kangwon South Korea | Optical properties & spectroscopy | Excitonic resonance effects and Davydov splitting in circularly polarized Raman spectra of few-layer WSe ₂ | 19 |
| Kim | Kwang-Seop South Korea | Other applications | Effect of Adhesive Layer Thickness on Graphene Transfer | 75 |
| Kumar | Raj India | Mechanical properties | Temperature-time dependent delamination energy of thermally reduced graphene oxide on soda lime glass as transparent conducting electrode | 69 |
| Leburton | Jean Pierre USA | Biomedical applications | Graphene and 2D materials for Epigenetic Applications | 2 |
| Lee | Yongjun South Korea | Devices | Graphene-based Triboelectric Nanogenerator for Self-powered Stretchable Wearable Touch Sensor | 59 |
| Lee | Seul South Korea | Energy applications | The effect of Polytetrafluorethylene (PTFE) as binder of Carbon Electrochemical Double-Layer Capacitors (EDLCs) | 66 |
| Lee | Seonwoo South Korea | Optical properties & spectroscopy | Thickness dependent phonon renormalization in ultrathin silicon nanomembranes | 20 |
| Lee | Songjae South Korea | Synthesis | Patterned growth of graphene by using seed | 11 |
| Lee | Suyeong South Korea | Theory | Electronic and Transport Properties of Vertical Heterostructure of h-BN and Black Phosphorus | 84 |
| Li | JinShu South Korea | Theory | Quasiparticle interference (QPI) in twisted bilayer graphene | 85 |
| Li | Yang Japan | Theory | Electronic and Transport Properties of Carbon Nanotube Bundles | 86 |
| Li | Yuanyuan South Korea | Theory | Hydrogen Release from KMgH ₃ Hydride with Alkali Metal Dopants:A First-Principles Study | 87 |
| Liang | Shi-Jun Singapore | Devices | Theoretical Performance limit of Telecom-wavelength Graphene-Silicon Schottky Photodetector | 60 |
| Lin | Che-Yi Taiwan | Electrical properties | Explore intrinsically electrical characteristics of atomically thin SnS ₂ flake | 39 |
| Link | Julia Germany | Theory | Hydrodynamics in isotropic and anisotropic Dirac-systems | 88 |
| Liu | Ying Finland | Devices | Pick-up Technique based on 2D Materials Stamp for High Quality Heterostructure Devices | 61 |
| Maruyama | Mina Japan | Theory | Magnetism and Electronic Polarity of Two-Dimensional Network Consisting of C ₄₀ Fullerene | 89 |
| Matsubara | Manaho Japan | Theory | Fermi level tuning of N-doped graphene by an external electric field | 90 |
| Muanchan | Paritat Japan | Other applications | Vertically Aligned Composite Nanostructures Obtained by Nanoimprint Process | 76 |
| Na | Woongki South Korea | Optical properties & spectroscopy | Interlayer interaction of MoS ₂ depending on stacking order | 21 |
| Nakamura | Kazushi Japan | Optical properties & spectroscopy | Simplified Estimation of Crystallographic Orientation of Strained Graphene by Micro-Raman Spectroscopy | 22 |
| Nam | Donggyu South Korea | Biomedical applications | Establishment of pathogen-free human pluripotent stem cell culture method using graphene that meets clinical-grade | 3 |
| Neella | Nagarjuna India | Thermal properties | RGO decorated ZnO nanosheets for Temperature Sensor Applications | 96 |
| Ngo | Linh South Korea | Chemistry & electrochemistry | NiMn ₂ O ₄ spinel binary nanostructure decorated on three-dimensional graphene oxide hydrogel for non-enzymatic glucose sensor and energy storage application | 53 |
| Ogawa | Shuichi Japan | Electrical properties | Valence band evaluation of graphene using in-situ photoelectron spectroscopy with non-monochromatic He I line | 40 |
| Ooi | Zi En Singapore | Optical properties & spectroscopy | Circular Dichroic Photoluminescence from Multilayer WS ₂ | 23 |
| Peng | Jingyang Australia | Optical properties & spectroscopy | Tunable mid-infrared plasmons supported by graphene nanomesh structures | 24 |
| Pham | Thanh-Truc South Korea | Thermal properties | A study of temperature and nickel titanium trioxide effect on the thermal generation of carbon nitride | 97 |
| Qi | Yanchunxiao South Korea | Energy applications | The poly(styrene-pyrrole- acrylonitrile/butylacrylate)core-shell binder and its performance in anodes of Lithium-ion batteries | 67 |
| Qu | Deshun South Korea | Devices | Carrier type modulation and mobility improvement of thin MoTe ₂ | 62 |
| Rafsanjani A. | Kazi India | Electrical properties | Multifractal Conductance Fluctuations in Single-layer Graphene Field Effect Transistor Devices | 41 |
| Ridolfi | Emilia Singapore | Optical properties & spectroscopy | Modeling excitonic effects in the linear and non-linear optical response of transition-metal dichalcogenides | 25 |



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| Rosa | Vinicius | Singapore | Biomedical applications Osteoblastic maturation on graphene film onto titanium via dry transfer technique | 4 |
| Ryu | Sunmin | South Korea | Chemistry & electrochemistry Doubly Anisotropic Thermal Oxidation of 2-Dimensional MoS ₂ Supported on Silica Substrates | 54 |
| Sarkar | Suman | India | Electrical properties Role of different scattering mechanisms on the temperature dependence of transport in graphene | 42 |
| Sawahata | Hisaki | Japan | Theory Energetics and electronic properties of B ₃ N ₃ -doped graphene: Semiconducting graphene heterostructures | 91 |
| Shojaei | Saeid | Iran | Electrical properties Negative differential resistance in fluorographene matrix | 43 |
| Singh | Mandeep | Australia | Optical properties & spectroscopy Soft exfoliation of 2D SnO with size-dependent optical properties | 26 |
| Sobieski | Jan | Poland | Synthesis Impact of MOCVD growth parameters on nucleation density in MoS ₂ epitaxial layers. | 12 |
| Sonoda | Hiroki | Japan | Electrical properties Atmosphere Dependence of Normal State Resistance of BSCCO Thin Films Obtained with Micromechanical Exfoliation | 44 |
| Surmani M. | Marcos V. | Singapore | Other applications Graphene-based membranes for ionic sieving | 77 |
| Syariati | Ali | Netherlands | Synthesis Controlling Source Concentration to Obtain A High Quality Film of Single Layer MoS ₂ growth by Chemical Vapor Deposition | 13 |
| Tanaka | Miuko | Japan | Electrical properties Non-local transport in symmetry broken state of bilayer graphene under magnetic field | 45 |
| Teich | David | Germany | Synthesis Simulation of Chemical Vapor Deposition for Graphene using Phase Field Crystal Models | 14 |
| Tsai | Hsin-Zon | USA | Microscopy Gate-tunable one-dimensional charge pattern on a graphene device | 72 |
| Tu | Yudi | Japan | Electrical properties Fabrication of Reduced Graphene Oxide Micro Patterns by Vacuum-ultraviolet Irradiation: from Chemical and Structural Evolution to Improving Patterning Precision by Light Collimation | 46 |
| Ualibek | Oral | Kazakhstan | Other applications A facile method to fabricate graphene-based superhydrophobic magnetic material for oil-water separation | 78 |
| Ueno | Keiji | Japan | Synthesis Low Temperature Growth of Tungsten Disulfide Thin Films by Atomic Layer Deposition Using Liquid Precursors | 15 |
| Wang | Junyong | Singapore | Devices Efficient carrier-to-exciton conversion in field emission tunnel diodes based on MIS-type van der Waals heterostack | 63 |
| Wang | Xinyun | Singapore | Microscopy TMDs imaging and characterizations using Kelvin probe force microscopy | 73 |
| Wang | Linlin | South Korea | Optical properties & spectroscopy A New Turn-on Fluorescent Sensor for the Detection of Biological Thiols based on the Benzoxazole Dye | 27 |
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| Yabe | Daisuke | Japan | Electrical properties Superconducting Transition of Thin Layered Superconductor NbSe ₂ : Influence of Device Structures | 47 |
| Yamada | Takatoshi | Japan | Optical properties & spectroscopy Low optical reflectance of vertically aligned graphene sheets | 29 |
| Yang | Shih-Hsien | Taiwan | Electrical properties Tunnel Field-Effect Transistors in van der Waals BP/MoS ₂ Device. | 48 |
| Yasuma | Airi | Japan | Theory Stability of edge oxidized graphene nanoribbons | 92 |
| Yesilyurt | Can | Singapore | Electrical properties Anomalous optoelectronic transport induced by tilted energy dispersion in Weyl semimetals | 49 |
| Yoon | Yeoheung | South Korea | Chemistry & electrochemistry Synthesis of chemically modulated 2D titanium carbides for energy storage materials | 55 |
| Yue | Dewu | South Korea | Devices Formation of polymeric Ohmic contact with benzyl viologen for two-dimensional semiconductor devices | 64 |
| Yun | Won Seok | South Korea | Theory Novel two-dimensional semiconductors ZrNCI and HfNCI: Stability, electric transport, and thermoelectric properties | 93 |
| Zhang | Lei | Singapore | Electrical properties Surface-Adsorption of Metal-Phthalocyanine Molecules on Transition-Metal Dichalcogenides | 50 |
| Zhe | Wang | Singapore | Optical properties & spectroscopy Optical Switching via Self-Diffraction in ITO | 30 |
| Zhenliang | Hu | Singapore | Optical properties & spectroscopy Origin of trion fluorescence in WS ₂ monolayer edges | 31 |