Poster Session I
17:00 - 18:30, Wednesday, June 19, 2024
Meeting Room 1&2

17:00 - 17:45 Presentation with odd number posters
17:45 - 18:30 Presentation with even number posters

Session A : Fabrications and Characterization

AP1-01 Electrode patterned dependency of the removable-structure organic photodiode characteristics
Kosei Sasaki (The University of Tokyo, Japan)

AP1-02 Impact of the Orientation of the Rubbed Polyimide Surface on the Alignment of the Liquid Crystal Molecules
Ryo Nakano (Chiba University, Japan)

AP1-03 Polarized Polymer Light-emitting Electrochemical Cells using Polyfluorene and Polycaprolactone Blend Film by Floating-film Transfer Method
Shuichi Nagamatsu (Kyushu Institute of Technology, Japan)

AP1-04 Fundamental study of naphthalenetetracarboxylic diimide derivatives with fluorene groups for device applications
Tsubasa Yamashita (University of Toyama, Japan)

AP1-05 Preparation of OECT with temperature-responsive copolymer and PEDOT:PSS blend films
Kotaro Nara (Tohoku University, Japan)

AP1-06 Sub-nanometer scale structures and reactions on single crystal of macrocyclic molecules visualized by FM-AFM imaging in liquid
Kodai Tanigawa (Kanazawa University, Japan)

AP1-07 Growth of well-ordered PhC_2-BQQDI multilayer on Ag(110)
Yoshihiro Murakami (University of Tsukuba, Japan)

AP1-08 Phase transition diagrams of ionic liquids with liquid/gas phase boundaries investigated by thermogravimetry under vacuum
Shohei Horike (Kobe University, Japan)

AP1-09 Solution deposition of TIPS pentacene on HZO gate dielectrics toward organic memory applications
Daiji Kitamura (Osaka Institute of Technology, Japan)

AP1-10 Prediction of molecule junction formation from the conductance behavior of the metallic junction
Gaku Fukuhara (Osaka University, Japan)

AP1-11 Fabrication of PEDOT:PSS film mixed with zwitterionic polymer
Wakana Takahashi (Tohoku University, Japan)

AP1-12 Electric properties for thin films of micro-wave treated hydrophilic graphite oxide fabricated by liquid-liquid interface
Ryusei Chikami (Saga University, Japan)

AP1-13 Controlled preparation of covalent organic framework thin films via a solution-deposition–polymerization approach
Sora Yamazaki (Osaka University, Japan)

AP1-14 Charge-Dependent Patterning for High-Resolution Soft Devices
Lingying Li (National Institute for Materials Science, Japan)

AP1-15 Vibrational Measurements on Single-Crystal Organic Semiconductors by a Linearly-Polarized Synchrotron Radiation Infrared Light Source
Yasuo Nakayama (Tokyo University of Science, Japan)

AP1-16 Investigation of Carrier Dynamics in Organic Thin-Film Transistors Using Pump-Probe Kelvin-probe Force Microscopy
Kazuki Arinaga (Kyoto University, Japan)

AP1-17 Control of crystalline forms of C_{60} by mist deposition method
Risako Taguchi (National Institute of Technology Tsuyama College, Japan)

AP1-18 Development of FHE-type SpO_2 Sensor by Multilayer Screen-Printing
Ayako Yoshida (Yamagata University, Japan)

AP1-19 CNT-based Superstructure Formation via Evaporative Self-assembly
Miki Ikeda (Kyoto Institute of Technology University, Japan)

AP1-20 Helically-oriented polymer semiconductor thin films prepared by polarized UV-assisted vapor deposition polymerization
Atsushi Kubono (Shizuoka University, Japan)

Session B : Functional Materials (LC, polymer, soft material, photonic material, nanomaterials, QD, carbon materials, etc.)

BP1-01 Effective Enhancement of Thermal Stability in p-doped Carbon Nanotubes *via* Soft-Anion Coordination
Kaho Kawasaki (Kobe University, Japan)

BP1-02 Simultaneous Dynamic/Static Detection of Infrared Radiation Using Organic Pyroelectric Polymers Stacked with Thermoelectric Carbon Nanotubes
Momoyo Oyama (Kobe University, Japan)

BP1-03 Efficient photosensitized luminescence from Eu^{3+} in inert nanocrystals via ligand coordination
Kenichi Goushi (Kyushu University, Japan)

BP1-04 Visualization of Charge Transport in DPP-TTT/C3N4 Blended Organic Thin Films Fabricated by Unidirectional Floating Film Transfer Method through Optical Second-Harmonic Generation
Radhe Shyam (Indian Institute of Technology (BHU) Varanasi, India)

BP1-05 Dielectric properties of alkane-α,ω-dinitriles based on configurational and rotational degrees of freedom
Nozomi Onodera (Tohoku University, Japan)

BP1-06 Synthesis, Structures, and Physical Properties of Bistriazole-*p*-benzoquinone and Its Alkali Metal Salts
Shiori Harada (Tohoku University, Japan)

BP1-07 Rashba-Dresselhaus spin-orbit coupling in an organic crystal microcavity
Reo Ohkura (Kyoto Institute of Technology, Japan)

BP1-08 Synthesis of graphite intercalation compounds with hydrophilic microwave treated graphite oxide
Yuto Matsuo (Saga University, Japan)

BP1-09 Single crystal photonics based on phenyl-/pyridyl-appended stilbene derivatives
Mahiro Nakabayashi (Kochi University of Technology, Japan)

BP1-10 Length-controllable silver nanowire probe for high TERS activity
Jiangtao Li (Hokkaido University, Japan)

Session C : Organic Devices and Applications (FET, EL, memory, sensors and actuators)

CP1-01 Performance Improvement of Vertical Organic FET Based on Reduced Graphene Oxide with Self-Alignment Structure
Naoyuki Kosaka (Osaka University, Japan)

CP1-02 Highly Efficient Organic Light-Emitting Diodes Using a Heptazine-Carbazole Derivative
Reo Kurihara (Osaka University, Japan)

CP1-03 Tuning structure and electron transport properties of graphene by chemical modification using ion-beam irradiation
Kazuyuki Takai (Hosei University, Japan)

CP1-04 Modulation of Oxygen Molecular doping in two dimensional materials by applying gate voltage
Takumi Yoshida (Hosei University, Japan)

CP1-05 Numerical electromagnetic field analysis for the development of broadband metamaterial absorber by screen printing of conducting polymer ink
Sho Yoshikawa (Mie University, Japan)

CP1-06 Low-voltage organic light-emitting diodes with solution-processed donor/acceptor interfaces
Moeto Okuda (Osaka Metropolitan University, Japan)

CP1-07 Liquid crystalline organic semiconductors having high solubility by chemical modification in side chain and their organic transistor application
Hiroaki Iino (Tokyo Institute of Technology, Japan)

CP1-08 Investigation of SAMO around metal embraced C_{70} :A DFT Study
Tomohiro Nobeyama (Tsukuba University, Japan)

CP1-09 Device characteristics of flexible top-gate pentacene transistor memories with self-organized organic floating gates
Yuting Shi (Osaka Metropolitan University, Japan)

CP1-10 Detection of alkyl halides using an organic field-effect transistor-based chemical sensor functionalized with a tetrazole derivative
Kohei Ohshiro (The University of Tokyo, Japan)

CP1-11 Improvement of device performance of solution-processed multilayered LEDs with QD/polymer blend as the emission layer
Eiji Itoh (Shinshu University, Japan)

CP1-12 Site-selective fabrication of organic nanocrystals using nanoscale electrocrystallization and their physical properties
Taichi Oribe (Shimane University, Japan)

CP1-13 Current density-voltage characteristics of exciplex-type OLEDs with hole transport/electron transport bilayer
Takeshi Yasuda (National Institute for Materials Science, Japan)

CP1-14 Resistive random access memory based on organic-metallic hybrid polymer
Norio Onojima (University of Yamanashi, Japan)

CP1-15 Charge behaviors in compressed Alq3-based organic MIS diodes observed by displacement current measurement
Aoi Ito (Gunma University, Japan)

CP1-16 Effects of acidity of the surface of supporting SiO_2 substrate on the structure and electronic properties of graphene
Taisei Takasuka (Tokyo Institute of Technology, Japan)

Session D : Biotechnology and Biomedical Applications

DP1-01 Dynamics of Lipid Molecules in Heavy Water under Optical Trapping
Shunya Moriyama (Osaka Metropolitan University, Japan)

DP1-02 Femtosecond laser-induced electrophysiological properties in single neurons
Yumi Segawa (Osaka Metropolitan University, Japan)

DP1-03 Towards Epiomics by using Single-Molecule Electrical Identification Method
Takahito Ohshiro (Osaka University, Japan)

DP1-04 Fabrication of DNA Nanostructures for Functionalized AFM Tip
Ryusuke Wada (Kyoto University, Japan)

DP1-05 Solvent effect of photochemical reaction of a photoresponsive molecule exposed to visible light on a plasmonic chips
Kyohei Asano (Kwansei Gakuin University, Japan)

DP1-06 Single-particle translocation dynamics in High viscosity fluid
Taiga Kawaguchi (Osaka University, Japan)

DP1-07 Direct transfer of intracellular molecules between source and target cells through a double-sided nanotube membrane
Yuiko Mizuguchi (Waseda University, Japan)

DP1-08 A comparison of how branched and linear polyethyleneimine affects plasma membrane structure by nonlinear optical microscopy
Takeru Hara (Meiji University, Japan)

DP1-09 Evaluation System for Structural Changes of Lipid Bilayers under the Application of Vertical and Lateral Membrane Voltages
Hironori Kageyama (Tohoku University, Japan)

DP1-10 Sensitive detection of biomolecules by surface-enhanced Raman scattering in giant unilamellar vesicles
Yurika Inoue (University of Hyogo, Japan)

DP1-11 Neural activity analysis in depressive disorder model mouse by Toyohashi-probe
Joichiro Muramatsu (Toyohashi University of Technology, Japan)

Session E : Organic photovoltaics and Energy Harvesting

EP1-01 Curcumin: a natural non-fullerene acceptor
Yutaro Ono (University of Tsukuba, Japan)

EP1-02 Benzo[d]imidazole-Based Nonfullerene Acceptors for Organic Photovoltaics
Tsubasa Mikie (Hiroshima University, Japan)

EP1-03 Spontaneous Exfoliation of a Thermoelectric Coordination Polymer Poly(nickel-ethenetetrathiolate) in Aqueous-organic Mixed Solvents
Yu-Chen Kuo (Kyoto Institute of Technology, Japan)

Session F : Perovskites and Hybrid Materials (Solar Cells and related devices)

FP1-01 Pb Recovery from Perovskite Solar Cells Using Ion-Exchange Resin
Ruka Yazawa (Kanazawa University, Japan)

FP1-02 Optimization of spin-coating conditions of the SnO_2 electron transport layer for higher-performance perovskite solar cells
Dai Semba (Kyushu University, Japan)

FP1-03 Observation of surface morphological progression in $CsPbBr_3$ polycrystalline thin films
Kohei Uezono (Kyoto Institute of Technology, Japan)

FP1-04 Fabrication of Polystyrene-Added Perovskite Solar Cell
Koichi Okamoto (Aichi Institute of Technology, Japan)

FP1-05 Orientation control of $CH_3NH_3PbI_3$ deposited by two-step method on organic semiconductor buffer layers
Ikumi Kamikawa (National Institute of Advanced Industrial Science and Technology, Japan)

FP1-06 Antimony Chalcohalide Photovoltaics with Unique Color-Sensing Property
Ryosuke Nishikubo (Osaka University, Japan)

FP1-07 Fabrication of Charge-transfer complex-Perovskite composite films by one step solution process
Shusei Hattori (Yamagata University, Japan)

FP1-08 Small molecule blend near-infrared perovskite nanocrystal light-emitting diodes
Takayuki Chiba (Yamagata University, Japan)

Poster Session II
10:15 - 11:45, Friday June 21, 2024
Meeting Room 1&2

10:15 - 11:00 Presentation with odd number posters
11:00 - 11:45 Presentation with even number posters

Session A : Fabrications and Characterization

AP2-01 Experimental observation of valence band dispersion in 2-*n*-octyl-[1]benzothieno[3,2-*b*]naphtho[2,3-*b*]thiophene (2-C8-BTNT) crystals
Tomoya Tasaki (Tokyo University of Science, Japan)

AP2-02 Light Source Dependence on Quantitative Measurement for Dispersibility of Dark-colored Colloidal Dispersions
Kento Kojiro (Saga University, Japan)

AP2-03 Real-Time Chemical Reaction Analysis during Polyurea Formation Studied by Time-Resolved Infrared Spectroscopy
Yasuko Koshiba (Kobe University, Japan)

AP2-04 Ultrahigh-pressure polymerization of nitrogen-containing aromatic molecules
Toshihiro Shimada (Hokkaido University, Japan)

AP2-05 Optimization of Spray Treatment after Active Layer Deposition for Perovskite Solar Cells
Kensei Ueyama (Aichi Institue of Technology, Japan)

AP2-06 Fabrication of vanadium oxide thin films by a chemical solution deposition method and its pH sensor toward bio-sensing device
Yoshiki Tate (Osaka Institute of Technology, Japan)

AP2-07 Evaluation of dispersion properties of Eu-doped benzoguanamine and thin film preparation by electrostatic-spraying deposition method
Naoki Ohtani (Doshisha University, Japan)

AP2-08 Electronic Structure of Lithium Endohedral Fullerene Thin Films
Yuki Kono (University of Tsukuba, Japan)

AP2-09 Carrier Migration Observed by TRM-SHG Measurements of Soluble Phthalocyanine Deposited by Dip-coating Method in Organic Field-effect Transistors
Takumi Osuga (Tokyo Institute of Technology, Japan)

AP2-10 Anisotropic nucleation growth in the initial stage of pentacene thin film at low temperature
Taiga Izakura (Shizuoka University, Japan)

AP2-11 Effect of deposition rate and substrate temperatures on correlated growth in ultrathin DNTT films
Nobuya Hiroshiba (Osaka Institute of Technology, Japan)

AP2-12 Layer-by-Layer MOF Growth Assembled on PEDOT:PSS Films
Sonosuke Watanabe (Tohoku University, Japan)

AP2-13 Pitched π-Stacking Crystal Structure and Two-Dimensional Electronic Structure of Acenaphtho[1,2-k]fluoranthene Analogues
Seiya Yokokura (Hokkaido University, Japan)

AP2-14 Highly Luminescent of $CsPbCl_3$ Perovskite Nanocrystal with optimized Ligand and Chloride
Keishiro Goshima (Aichi Insutitute of Technology, Japan)

AP2-15 Effects of UV-Vis Exposure on Organic Thin Film investigated by GIXS and NEXAFS Measurements
Takeshi Watanabe (Japan Synchrotron Radiation Research Institute, Japan)

AP2-16 Effect of end group on J-aggregates formation in bisazo dye thin films
Jian Yu (RIKEN, Japan)

AP2-17 Fabrication of bacteriorhodopsin visual filters and their optoelectrical characteristics
Takahiro Kodama (Shimane University, Japan)

AP2-18 Kinetic analysis of hydrogen bond formation in polyurea polymerization by infrared spectroscopy
Moeka Osumi (Shizuoka University, Japan)

AP2-19 Chain length dependence of the formation processes of paraffin thin films during vacuum deposition
Ryosuke Matsubara (Shizuoka University, Japan)

AP2-20 Development of Integrated Nanocapacitor based on Stochastic Filling of "Copper" into Aluminum Anodic Oxide Template
Hinako Ebe (Yamagata University, Japan)

Session B : Functional Materials (LC, polymer, soft material, photonic material, nanomaterials, QD, carbon materials, etc.)

BP2-01 Electrical characterization of conductive fillers made from alloy leaves and multilayered leaves
Jikai Hu (Japan Advanced Institute of Science and Technology, Japan)

BP2-02 Cross-linked organic superbases as efficient dopant for creating humidity-, thermally stable n-type carbon nanotubes
Mayuko Nishinaka (Kobe University, Japan)

BP2-03 Application of hydrophilic graphite ink to the back electrode of inorganic electroluminescence device
Asami Ohtake (Saga University, Japan)

BP2-04 Fabrication of printed electrodes using hydrophilic carbon materials and their application to electrochemistry
Saya Matsumoto (Saga University, Japan)

BP2-05 Nonlinear Electrical Characteristics of Conducting Polymer Monolayer and Multilayer Networks Formed by the Co-spread Method with Liquid Crystal Molecules
Naoki Hara (Rikkyo University, Japan)

BP2-06 Formation of a single liquid droplet in a temperature-responsive ionic liquid by optical tweezers
Rai Kobayashi (Osaka Metropolitan University, Japan)

BP2-07 Exploration of three-dimensional conducting organic semiconductor molecules using a crystal structure database
Ken-ichi Nakayama (Osaka University, Japan)

BP2-08 Evaluation of photoinduced surface potential decay for evaporated Alq_3 film
Ayato Jingu (Gunma University, Japan)

BP2-09 Development of polar molecules exhibiting spontaneous orientation polarization using fluoroalkyl and phthalimide units
Masaki Tanaka (Tokyo University of Agriculture and Technology, Japan)

BP2-10 Temperature Dependence of Kinetic Properties of Self-propelled Ion Gel
Kazuaki Furukawa (Meisei University, Japan)

Session C : Organic Devices and Applications (FET, EL, memory, sensors and actuators)

CP2-01 Conductive elastomers for self-adhesive nanosheet electrodes
Chiaki Ushimaru (The University of Tokyo, Japan)

CP2-02 A self-adhesive on-skin electrode based on conductive elastomer for biosignal measurements
Ryota Fukuzawa (The University of Tokyo, Japan)

CP2-03 Device structure-optimized organic photoresistor for the sub-micron photodetector
Nao Sumi (The University of Tokyo, Japan)

CP2-04 Vacant

CP2-05 Comparison of bias-stress effects of PBTTT- and PCDTPT-OFETs with the same gate dielectric under vacuum conditions
Kenji Sakamoto (National Institute for Materials Science, Japan)

CP2-06 Long-term stability of a radiation detector using organic semiconductor
Eri Miyata (Ashikaga UniversityJapan)

CP2-07 Development of low-cost super-resolution microscope using microbeads and 3D-printed flexure stages
Akihiro Tsuji (Mie University, Japan)

CP2-08 Optoelectronic organic floating-gate memories for analog synapse devices
Shusei Hattori (Osaka Metropolitan University, Japan)

CP2-09 Fabrication of bulk heterojunction organic photodiode using physical vapor deposition
Atsuya Watabe (University of Toyama, Japan)

CP2-10 Resonant tunneling through purely organic radicals in molecular tunneling devices for spintronics applications
Jayanta Bera (National Institute for Materials Science, Japan)

CP2-11 Formation of InP-based Quantum Dot Thin Film Utilizing Electrophoretic Deposition Method Toward Light-Emitting Diodes
Maowei Huang (Osaka University, Japan)

CP2-12 Orientation Behavior of Liquid Crystals on Surface with Gradient Wettability using UV-Irradiated Polyimide Film
Yuji Tsukamoto (Ehime University, Japan)

CP2-13 Operation mechanism of n-channel organic floating-gate memories using naphthalenediimide-based polymer semiconductors
Takashi Nagase (Osaka Metropolitan University, Japan)

CP2-14 Preparation and Evaluation of Pentacene Phototransistor with Plasmonic Organic Solar Cell
Kazunari Shinbo (Niigata University, Japan)

Session D : Biotechnology and Biomedical Applications

DP2-01 Ion coordination structure in lipid bilayers using X-ray absorption spectroscopy in water
Yu Kinjo (Toyohashi University of Technology, Japan)

DP2-02 Resonance Optical Trapping of Glutamate Receptors on Neuronal Cell
Tatsumu Miyazaki (Osaka Metropolitan University, Japan)

DP2-03 Basic study to detect the chlorophyll fluorescence of plant leaf using an industrial color sensor
Ko-ichiro Miyamoto (Tohoku University, Japan)

DP2-04 An efficient process for the fabrication of an artificial cell membrane platform for the application of membrane lateral voltages
Tatsuya Nomoto (Tohoku Unibersity, Japan)

DP2-05 Lipid membrane Formation on h-BN modified by Self-Assembled Peptides
Soichiro Kato (Tokyo Institute of Technology, Japan)

DP2-06 Preparation of Pillar Array-type Plasmonic Chips for Fluorescence Enhancement
Riku Shimosaka (Kwansei Gakuin University, Japan)

DP2-07 Lateral diffusion of lipids in artificial membranes containing polyethylene-glycol-modified lipid
Azusa Oshima (NTT, Japan)

DP2-08 Discrimination between L-DOPA and Dopamine molecules in Acidic Condition using Single-Molecule Measurement
Jiho Ryu (Osaka University, Japan)

DP2-09 Enhanced luminescence of a firefly luciferin by luciferase immobilized to the plasmonic chip
Hitomi Yamanaka (Kwansei Gakuin University, Japan)

DP2-10 Fabrication and characterization of a differential-measurement creatinine sensor using extended-gate field-effect transistors
Taichi Higo (Osaka Institute of Technology, Japan)

DP2-11 The viscoelastic parameter by acoustic microscopy reveals the physiological transition of brain immune cells
Sharumadhi Veloo (Toyohashi University of Technology, Japan)

DP2-12 In silico modeling of reservoir-based predictive coding in biological neuronal networks on multielectrode arrays
Yuya Sato (Tohoku University, Japan)

Session E : Organic photovoltaics and Energy Harvesting

EP2-01 Large thermoelectric power factor from semiconducting carbon nanotubes nanocomposite with poly(3-alkylthiophene)
Keigo Ishihara (Kyoto Institute of Technology, Japan)

EP2-02 Improvement of Non-fullerene Organic Solar Cells by Using the Localized Surface Plasmon Resonance Effect of Metal Nanoparticles
Yuting Miao (Niigata Universit, Japan)

Session F : Perovskites and Hybrid Materials (Solar Cells and related devices)

FP2-01 Low-Temperature Annealing of Inkjet-Printed $CsPbBr_3$ Perovskite Nanocrystal Film for Light-Emitting Diodes
Kohei Narazaki (Yamagata University, Japan)

FP2-02 Unleashing the Potential of Roll-to-Roll Viable Ionic Liquid-Assisted Ambient Air Fabrication of Perovskite Film for High Stable Solar Cells
Yugo Nakahara (Kanazawa University, Japan)

FP2-03 Improved perovskite solar cell performance with alkali metal hydroxide
Toshinori Matsushima (Kyushu University, Japan)

FP2-04 Suppression of photo-induced phase segregation in all-inorganic mixed-halide perovskite crystals
Daigo Minamitani (Kyoto Institute of Technology, Japan)

FP2-05 High-quality $CsPbBr_3$ single crystals microcavity fabricated by a high-temperature vapor-phase growth process
Ryohei Shibano (Kyoto Institute of Technology, Japan)

FP2-06 Advances in Perovskite Solar Technology: Developing Efficient 2D/3D Structures for Enhanced Performance
Naoyuki Shibayama (Toin University of Yokohama, Japan)

FP2-07 Aromatic 2,2-diphenylethylamine ligand exchange of $FA_{0.9}Cs_{0.1}PbBr_3$ perovskite nanocrystals for high efficiency pure green light-emitting diodes
Shoki Mizoguchi (Yamagata University, Japan)

FP2-08 Synthesis of Perovskite Surface Coated Polymer Brush by Photo Atom Transfer Radical Polymerization
Rintaro Ishikawa (Yamagata University, Japan)