

# Poster Session I

17:30 - 19:00, Tuesday, June 25, 2019

Reception Hall 1 and Room 3&4

## *Reception Hall 1*

### *Session A (Fabrications and Characterization)*

- AP1-01** Coating-speed Dependence of Molecular Orientation and Surface Morphology in Bar-coated pBTTT Thin Film  
Yuta Yabuuchi (Osaka University, Japan)
- AP1-02** Preferential adsorption of PCBM to the periphery of C<sub>60</sub> domains on Au (111) surface  
Hitoshi Suzuki (Hiroshima University, Japan)
- AP1-03** Quinoidal Fused Oligosilole Derivative (Si-2\*2) Single Molecular Resonant-Tunneling Transistor (SMRT2)  
SeungJoo Lee (Tokyo Institute of Technology, Japan)
- AP1-04** Crystal Structure Analysis of  $\alpha$ ,  $\omega$ -Di-decyl-quaterthiophene by Two-Dimensional Grazing Incidence X-ray Diffractometry  
Daiki Terui (Iwate University, Japan)
- AP1-05** Epitaxial organic semiconductor heterojunctions built on molecular single crystals: crystallographic and electronic structures  
Yasuo Nakayama (Tokyo University of Science, Japan)
- AP1-06** High thermal stability of the benzenedithiol monolayer formed on a gold surface  
Hayato Takahashi (Kobe University, Japan)
- AP1-07** Temperature dependence of molecular orientation of electro-sprayed cholesteric liquid crystal droplets on glass substrate  
Ryotaro Ozaki (Ehime University, Japan)
- AP1-08** Mesh structures formed by hexabromotriphenylene on Cu(111) and Au(111)  
Yuta Nagatomo (Hiroshima University, Japan)
- AP1-09** pBTTTC14 Thin-Film Transistor by Adsorbing Deposition in Suspension  
Shuichi Nagamatsu (Kyushu Institute of Technology, Japan)
- AP1-10** Direct observations of electric potential distributions of organic thin film transistors by bias-applied hard X-ray photoemission spectroscopy  
Takeshi Watanabe (Japan Synchrotron Radiation Research Institute, Japan)
- AP1-11** Thermal conductivity measurement of spin-coated polymer multilayer films  
Goki Ito (Keio University, Japan)
- AP1-12** The formation of a mixed monolayer on a gold surface toward surface property control  
Naoki Ikematsu (Kobe University, Japan)
- AP1-13** Progress of surface morphology of growing pentacene film characterized by grazing-incidence small angle X-ray scattering  
Ichiro Hirose (Japan Synchrotron Radiation Research Institute, Japan)
- AP1-14** Thermophysical properties of parylene C dimer under vacuum  
Monamie Yamada (Kobe University, Japan)

- AP1-15** Formation of p-n junction nanorods by heteroepitaxial growth of phthalocyanine  
Yasuko Koshiba (Kobe University, Japan)
- AP1-16** Preparation of Molecular Nanocoils Composed of Charge Transfer Complexes  
Satoshi Noguchi (Tokyo University of Agriculture and Technology, Japan)
- AP1-17** Molecular origin of photostability for fluorene-based photovoltaic polymer materials  
Hiroki Ozaki (Kobe University, Japan)
- AP1-18** Pressure Characteristics in C8-BTBT Crystalline Film Transistors  
Yugo Okada (Chiba University, Japan)
- AP1-19** Nucleation for metal-deposition on the diarylethene surface with a low glass-transition temperature  
Ikumi Takemoto (Osaka Kyoiku University, Japan)
- AP1-20** Controlling of Surface Morphology and Electric Properties of C60 Thin Films Fabricated by Mist-Deposition  
Moe Hatta (National Institute of Technology, Tsuyama College, Japan)
- AP1-21** In-situ viscoelasticity measurement in the formation of vapor-deposited thin liquid crystal films  
Ryota Takahashi (Shizuoka University, Japan)
- AP1-22** Study on aggregated structure and hydrogen bonding in vacuum-deposited urea oligomer films  
Tatsuya Fukushima (Kobe University, Japan)
- AP1-23** Single-electron transistor (SET) based on Au<sub>25</sub> nanocluster  
Jaeyeon Kim (Tokyo Institute of Technology, Japan)
- AP1-24** Low Temperature Fabrication of Silicon Dioxide Thin Film by MIST-CVD Deposition  
Yusuke Hosoe (National Institute of Technology, Tsuyama College, Japan)
- AP1-25** Single crystal growth and study of mechanical properties of organic semiconductors  
Xiaoran Yang (Hokkaido University, Japan)
- AP1-26** Investigation of the permanent dipole on the energy-level alignment at organic-organic interfaces  
Alexandre L. Foggatto (University of Tsukuba, Japan)
- AP1-27** Relationships between thin film growth and incident angle on substrate surface  
Tsukasa Komagome (Tokyo University of Agriculture and Technology, Japan)
- AP1-28** Site-Selective Fabrication of Nanocrystals Using Nanoscale Electrocrystallization for Device Application  
Hiroyuki Hasegawa (Shimane University, Japan)

### ***Session D (Nanobiotechnology and Biomedical)***

- DP1-01** Technique for Sterilization of Escherichia coli in Ice using DC Electric Field  
Yuichi Murakami (Meijo University, Japan)
- DP1-02** A wireless powered smart soft contact lens for bioapplications  
Taiki Takamatsu (Waseda University, Japan)
- DP1-03** Aggregation of amyloid  $\beta$  on phase separated lipid membrane  
Koki Harada (University of Hyogo, Japan)
- DP1-04** Rapid and sensitive detection of Candida mannan with the plasmonic sensor chip  
Seika Shimizu (Kwansei Gakuin University, Japan)
- DP1-05** Gold-based nanostraw membrane stamping for direct delivery of multi molecules into adhesive cells  
Kohei Sahara (Waseda University, Japan)
- DP1-06** Fluorescence imaging of a single exosome by a plasmonic chip  
Eri Fujimoto (Kwansei Gakuin University, Japan)
- DP1-07** Visualization and Electrical Measurement of Single Nanoparticles in Liquid Flows  
Kohei Odani (Osaka University, Japan)

- DP1-08** Observation of cell adhesion strength by reflection interference contrast microscopy combined with femtosecond laser impulse  
Yukiko Yoshimura (Nara Institute of Science and Technology, Japan)
- DP1-09** Effect of the Number of Bacteria on High Electric Field Pulse Sterilization  
Masaki Takamori (Meijo university, Japan)
- DP1-10** Viscosity of levitated single micrometer-sized water droplets in air  
Sayaka Abe (Hokkaido University, Japan)
- DP1-11** Spectroscopic study on molecular orientations of proteins under laser trapping for in situ and real-time crystallization  
Yuka Nakasuji (Hokkaido University, Japan)
- DP1-12** A Single Cell Fluorometric Assay for Granzyme B Profiling in Immunological Cells  
Jonathan C. Briones (Osaka University, Japan)
- DP1-13** Acute and transient responses of cultured cortical networks to electric-field noise  
Kei Wakimura (Tohoku University, Japan)
- DP1-14** Identifying Bioparticles at a Single-Particle Level by Machine-Learning Approach  
Akihide Arima (Nagoya University, Japan)
- DP1-15** Detection of adhesion and deformation of E.coli on the 3D nanostructural electrode using electrochemical impedance spectroscopy  
Takeshi Ito (Kansai University, Japan)
- DP1-16** Specific Detection of Human Influenza Virus Using Resistive Pulse Sensing with Nanoparticle-based Molecular Recognition  
Yukichi Horiguchi (Tokyo Medical and Dental University, Japan)
- DP1-17** Relationship between metastatic abilities of cancer cells and intercellular adhesion strengths studied by atomic force microscopy  
Hyonchol Kim (National Institute of Advanced Industrial Science and Technology, Japan)
- DP1-18** QCM based immunosensor for the detection of amyloid Beta  
Sung-Woong Han (Pohang University of Science and Technology, Republic of Korea)
- DP1-19** Development of a system for quantitative evaluation of drug side-effects on hERG channels using artificial bilayer lipid membranes  
Maki Komiya (Tohoku University, Japan)
- DP1-20** Caged-shaped protein assembly by charged peptide toward a binary-nanoparticle array  
Mitsuhiro Okuda (CIC nanoGUNE, Spain)

## ***Room 3&4***

### ***Session B (Functional Materials (LC, polymer, soft material, photonic material etc.))***

- BP1-01** Synthesis and Characterization of Hydrophilic graphite oxide by Atmospheric Pressure Plasma irradiation  
Koichi Sakaguchi (Saga University, Japan)
- BP1-02** Hydrophilization and conductivity improvement of graphite by microwave irradiation  
Sho Morita (Saga University, Japan)
- BP1-03** Amplified light emission based on cooperative process in single crystals of thiophene/phenylene co-oligomer  
Takumi Matsuo (Nara Institute of Science and technology, Japan)
- BP1-04** Charge transport property of an ethynylene-bridged pentacene dimer  
Hironobu Hayashi (Nara Institute of Science and Technology, Japan)
- BP1-05** Self-propelled ion gel motion in circular channel  
Kanji Yamauchi (Meisei University, Japan)
- BP1-06** Influence of active oxygen and plasma treatment to polyethyl ether ketone on surface modification  
Munenori Yoshida (Tokai University, Japan)
- BP1-07** Optical activity of cast films of hydroxypropyl cellulose liquid crystal  
Sadahito Uto (Osaka Institute of Technology, Japan)
- BP1-08** Pressure-induced reactions in polyacenes for new carbon materials  
Ichiro Yamane (Hokkaido University, Japan)
- BP1-09** Dependences of Plasmonic Properties of Metal Nanoparticles on Its Electronic States at the Metal/capping-molecule Interface  
Sou Ryuzaki (Kyushu University, Japan)

### ***Session C (Organic Devices and Applications)***

- CP1-01** Ultrathin and Transparent Printed Organic Electrochemical Transistors  
Ashuya Takemoto (Osaka University, Japan)
- CP1-02** Resistive Switching Behavior of Ferrocene-containing Polyelectrolyte Layer-by-Layer Films  
Akito Watanabe (Tohoku University, Japan)
- CP1-03** Fully-Printed Organic Thin-Film Transistors and Circuits  
Takeo Minari (National Institute for Materials Science, Japan)
- CP1-04** Platinum Leaf Counter Electrodes for Dye-Sensitized Solar Cells  
Kazuhiro Shimada (Industrial Research Institute of Ishikawa, Japan)
- CP1-05** Investigation of photo-initiators for ultra-violet light cured polysilsesquioxane gate dielectric layers of organic thin-film transistors  
Kosuke Hatano (Wakayama University, Japan)
- CP1-06** Compact organic solid-state laser with wide wavelength tunability  
Marie Taguchi (Kyoto Institute of Technology, Japan)
- CP1-07** Light amplification characteristics of CsPbBr<sub>3</sub> single crystal nanoplates  
Shuki Enomoto (Kyoto Institute of Technology, Japan)
- CP1-08** Zinc phthalocyanine-Based Photovoltaic Cells with High Light Absorption Coefficient by Changing Crystal Phase  
Takafumi Horikawa (Kanazawa University, Japan)

- CP1-09** Synthesis and evaluation of charge transport property of ethynylene-bridged anthracene oligomers  
Juanjuan Zhu (Nara Institute of Science and Technology, Japan)
- CP1-10** Improvement of long-term stability of newly developed plastic scintillator for practical use  
Eisuke Saito (Niigata University, Japan)
- CP1-11** Multifunctional Ultraflexible P(VDF-TrFE) Nanogenerators with Organic Rectifying Circuits for Energy Harvesting and Tactile Sensing  
Andreas Petritz (Osaka University, Japan)
- CP1-12** Process for micro-fabrication of spherical microlens array by utilizing the effect of surface tensions  
Yuito Miyashita (Tokyo Metropolitan Industrial Technology Research Institute, Japan)
- CP1-13** Surface potential contrasts between 1-alkene, 1-thiol and 1-alcohol self assembled monolayers on silicon (111) substrate  
Maria Carmela Tan Garcia (Kyoto University, Japan)
- CP1-14** Carrier Injections and EL Efficiency for Organic Light-Emitting Diodes Using Fluorinated Self-Assembled Monolayer Hole Injection Layer  
Tatsuo Mori (Aichi Institute of Technology, Japan)
- CP1-15** Solution-processed organic heterojunctions of dinaphthothienothiophene precursor and fullerene derivative for organic electronic applications  
Yu Suenaga (Osaka Prefecture University, Japan)
- CP1-16** Effect of adamantyl substituent on operational lifetime of organic light-emitting diodes  
Hirokazu Ito (Tokyo University of Science, Japan)
- CP1-17** Solvent-free toner printing of conductive materials on flexible substrates  
Hiroki Tomiya (Chiba university, Japan)
- CP1-18** Improving the air-stability of n-type organic thin-film transistors by additive polyacrylonitrile  
Juhong Dong (Tokyo Institute of Technology, Japan)
- CP1-19** Carrier Injection Dynamics in Organic Thin Film Transistor observed by Time Domain Reflectometry  
Masatoshi Sakai (Chiba University, Japan)
- CP1-20** Inverted Polymer Based Blue/ White Light Emitting Diodes with Solution Processed Nano-Hybrid Electron Buffer Layers  
Eiji Itoh (Shinshu University, Japan)
- CP1-21** Analysis of power generation characteristics of double-layer organic solar cells using photo-current distribution measurement  
Atsuo Sadakata (Kyushu Sangyo University, Japan)
- CP1-22** Measurements of valence electronic structure of the dinaphtho[2,3-b:2', 3'-f]thieno[3,2-b]thiophene single crystal  
Riku Takeuchi (Tokyo University of Science, Japan)
- CP1-23** White multi-stacked electroluminescence devices based on quantum dots and organic phosphorescent molecules without a buffer layer  
Seongkeun Oh (Kyonggi University, Republic of Korea)
- CP1-24** Enhance OCV of CNH dependency in Solid-state CMOS compatible glucose Fuel Cell for next-generation internet of things (IoT)  
Md. Zahidul Islam (Nagoya University, Japan)

### ***Session E (Sensors and Actuators)***

- EP1-01** Development of Low-pressure Electrical Interconnection Technology toward Flexible Electronics  
Kousuke Matsuo (Japan Aviation Electronics Ind., Ltd., Japan)

- EP1-02** Detecting cancer biomarker using QCM with DNA origami-nanoarray  
Naoto Asai (Kansai University, Japan)
- EP1-03** Reproducible and Flexible gas sensor based on Organic Field Effect Transistor  
Eun-Sol Shin (Pohang University of Science and Technology, Republic of Korea)
- EP1-04** Surface Engineering on Poly(dimethylsiloxane)/Carbon Nanotube Composite Patch for Removal of Toxic Chemicals  
Joonwon Bae (Dongduk Women's University, Republic of Korea)
- EP1-05** Waveguide optimization and its sensor evaluation of a doped polymer optical fiber designed for visual detection of stress  
Chie Hirose (The University of Electro-Communications, Japan)
- EP1-06** Electrical properties change in environmental gases by alkyl chains introduction to graphene oxide and film formation methods  
Yuka Katayama (Saga University, Japan)
- EP1-07** Lensless fluorescence imaging device with high performance hybrid emission filter  
Kiyotaka Sasagawa (Nara Institute of Science and Technology, Japan)
- EP1-08** High Voltage Sensitivity of Organic Pyroelectric Infrared Sensors Fabricated by Vacuum Evaporation under Electric Field  
Yohei Sutani (Kobe University, Japan)
- EP1-09** Scanning photo-induced impedance microscopy to characterize biodegradable polymers  
Carl Frederik Werner (Tohoku University, Japan)
- EP1-10** Synthesis of Polymer Having 2,4-Diamino-1,3,5-Triazinyl Group in the Side Chain and Evaluation of Electrochemical Molecular Recognition Ability  
Jin Ishii (Tokyo University of Agriculture and Technology, Japan)
- EP1-11** Flexible organic piezoelectric device that combines sensing and self-power supply from heart beating  
Yuya Kondo (Kobe University, Japan)
- EP1-12** The Study of ZnO/MgxZn1-xO dual-band metal-semiconductor-metal photodetector with Different thicknesses by RF Magnetron Sputter  
Wei-Hsu Liao (Southern Taiwan University of Science and Technology, Taiwan)

### ***Session F (Organic Photovoltaics and Energy Harvesting)***

- FP1-01** Origin of Photocurrent Generation in Organic pn-Homojunction Solar Cells  
Ji-hyun Lee (Institute of Molecular Science, Japan)
- FP1-02** Halogen ion diffusion in layered heterostructure of lead halide perovskites  
Senku Tanaka (Kindai University, Japan)
- FP1-03** Spectral sensitivity characteristics of silicon quantum dot solar cell embedded in organic thin film solar cell  
Mitsuru Inada (Kansai University, Japan)
- FP1-04** Thermoelectric performance of PEDOT: PSS thin films added with both surfactant and high boiling point solvent  
Naoki Kishi (Nagoya Institute of Technology, Japan)
- FP1-05** Simultaneous Electrochemical Determination of Isoquercitrin and Epigallocatechingallate with Carbon Nanotube Electrode  
Shota Takahashi (Shibaura Institute of Technology, Japan)
- FP1-06** Fundamental Electronic Properties of perylene derivatives as n-type organic semiconductor  
Masanao Era (Saga University, Japan)

- FP1-07** Light-induced ESR spectroscopy observation of long-lived charge states in PTzNTz polymer solar cells and elucidation of performance deterioration mechanism  
Dong Xue (University of Tsukuba, Japan)
- FP1-08** Diameter Distribution Dependent Thermoelectric Properties of Semiconducting Carbon Nanotube Thin Films  
Junichi Komoto (Nara Institute of Science and Technology, Japan)
- FP1-09** Physical and chemical analysis inside of organic photovoltaic cells for clarify degradation factors  
Makoto Karakawa (Kanazawa University, Japan)
- FP1-10** Effect of fullerene substituent for thermal robustness in polymer:fullerene bulk heterojunction solar cells  
Kazuya Tada (University of Hyogo, Japan)
- FP1-11** A Donor-Acceptor Conjugate Bearing an Adamantyl Group for Single-Component Organic Solar Cells  
Keisuke Murakami (Osaka University, Japan)
- FP1-12** Photovoltaic properties of planar organic solar cells using perylenetetracarboxylic diimide with phenylethyl derivatives  
Takeshi Yasuda (National Institute for Materials Science, Japan)

# Poster Session II

12:30 - 14:00, Wednesday, June 26, 2019

Reception Hall 1 and Room 3&4

## *Reception Hall 1*

### *Session B (Functional Materials (LC, polymer, soft material, photonic material etc.))*

- BP2-01** Effect of Silver Nanoplate on Singlet Exciton Fission in Rubrene Films  
Hiroaki Yonemura (Sojo University, Japan)
- BP2-02** Synergetic Effect of Silver Nanoplates and Magnetic Field on Photon Upconversion based on Sensitized Triplet-Triplet Annihilation in Polymer System  
Yuki Noda (Sojo University, Japan)
- BP2-03** Terahertz complex conductivity of nanofibrillar cellulose films controlled with PEDOT:PSS blending ratio  
Omou Kobayashi (Nagaoka University of Technology, Japan)
- BP2-04** Dielectric Anisotropy in PCPB/MBBA Mixtures Showing the Dual Frequency Characteristic  
Yoshinori Takikawa (Nagoya Institute of Technology, Japan)
- BP2-05** Terahertz emission spectroscopy equipped with the time origin and its application to biased organic semiconductors  
Takeya Unuma (Nagaoka University of Technology, Japan)
- BP2-06** Significant THz-Wave Absorption in FAPbI<sub>3</sub> Thin Films Fabricated by Sequential Vacuum Evaporation Method  
Asuka Matsuyama (Nara Institute of Science and Technology, Japan)
- BP2-07** Investigating tunneling transport in semiconducting carbon nanotube films  
Kanae Oi (Nara Institute of Science and Technology, Japan)
- BP2-08** Effect of the MIS Structure with MgF<sub>2</sub> on CELIV Measurements  
Yuna Suzuki (Osaka University, Japan)

### *Session D (Nanobiotechnology and Biomedical)*

- DP2-01** Investigation of relationship between specific binding of biotinylated proteins to streptavidin and disruption of streptavidin 2D crystals  
Shogo Maeda (Kyoto University, Japan)
- DP2-02** A Biological Ink Composed by Glycan Chain Rich Enzyme and Single-Walled Carbon Nanotube/Surfactant Aqueous Solution for Printable Biosensor  
Atsuya Suzuki (Shibaura Institute of Technology, Japan)
- DP2-03** Mechanical stress response of myoblasts using cultured cell stretching system ~ Role of molecular chaperone  $\alpha$ B-crystallin controlling cell adhesion stability of Vinculin  
Saaya Hayasaki (Tokyo University of Agriculture and Technology, Japan)
- DP2-04** Evaluation of cellular response to femtosecond laser impulse based on spectral changes of fluorescent proteins  
Keisuke Ide (Nara Institute of Science and Technology, Japan)



- DP2-05** Acoustic cell arrangement in micro-fluidic chip for cells sorting by femtosecond laser-induced impulsive force  
Yusuke Ajikawa (Nara Institute of Science and Technology, Japan)
- DP2-06** Molecular delivery to target cells driven by focused femtosecond laser pulses in water  
Yukihiro Tanaka (Nara Institute of Science and Technology, Japan)
- DP2-07** Ammonia sensing based on potentiometric measurements using two enzyme-membranes layered on an electrode  
Kai Sasaki (Yamagata University, Japan)
- DP2-08** Determination of Rhythmic Oscillations in Time Series Data by a Neighboring Interval Autocorrelation Function  
Kenichi Shibata (Yokohama National University, Japan)
- DP2-09** Differentiation Control of Muscle Myoblast C2C12 cells by Non-Thermal Atmospheric Pressure Plasma Irradiation  
Shinya Kumagai (Meijo University, Japan)

### ***Session E (Sensors and Actuators)***

- EP2-01** A new method for polarization control of piezoelectric PVDF thin films using surface chemical modification  
Daisuke Tadaki (Tohoku University, Japan)
- EP2-02** Actuation and blocking force of carbon nanotube/polymer actuator with platelet-shaped graphene  
Hirosato Monobe (National Institute of Advanced Industrial Science and Technology, Japan)
- EP2-03** Ultraflexible Ferroelectric P(VDF-TrFE) Sensors  
Esther Karner-Petritz (Osaka University, Japan)
- EP2-04** Chemical stability of a colorimetric indicator based on sodium alginate thin film employed methylene blue dye due to hydroxyl radical exposure  
Saranya Yenchit (Tokai University, Japan)
- EP2-05** Development of a sensor with copper electrodeposited electrode to detect urinary creatinine  
Naoko Sato (Tokyo university of agriculture and technology, Japan)
- EP2-06** Flexible Electric Packaging Using Film-Type Connections  
Ryosuke Mitsui (Japan Aviation Electronics Ind., Ltd, Japan)
- EP2-07** Charge state control with atomically-thin Al<sub>2</sub>O<sub>3</sub> coating on the pore surface  
Tomoki Hayashida (Osaka University, Japan)
- EP2-08** Detection of odor molecule with graphene biosensor  
Chishu Honma (Tokyo Institute of Technology, Japan)
- EP2-09** Silicon Nitride Chips Modified with Gb3 Trisaccharide for Rapid Detection of Verotoxins  
Atsunori Hiratsuka (National Institute of Advanced Industrial Science and Technology, Japan)
- EP2-10** QCM Gas Sensor for Volatile Organic Compounds Detection using GO/TiO<sub>2</sub> Composite  
Pramudi Savidya Jayawardena (Shizuoka University, Japan)

## ***Room 3&4***

### ***Session A (Fabrications and Characterization)***

- AP2-01** Uniaxially Oriented Thin Films of tert-Butyl-substituted Phthalocyanine Fabricated by Bar-coating Method  
Genya Uzurano (Osaka University, Japan)
- AP2-02** Solvent vapor annealing for poly(2,5-bis(3-tetradecylthiophen-2-yl)thieno[3,2-b]thiophene) thin films towards transistor fabrication  
Kei Noda (Keio University, Japan)
- AP2-03** Analysis of initial stage in thin film growth of organic semiconductor using quartz crystal microbalance  
Ryosuke Matsubara (Shizuoka University, Japan)
- AP2-04** Fabrication of Low-dimensional Microstructures with Distyrylbenzene Derivatives  
Hisao Yanagi (Nara Institute of Science and Technology, Japan)
- AP2-05** Face-on Orientation Control and Enhanced Vertical Carrier Mobility of Organic Semiconductors with a Reduced Graphene Oxide Template Layer  
Keitaro Yamada (Osaka University, Japan)
- AP2-06** Field-effect transistors based on ligand-removed PbS nano-dot films treated with ammonium sulfide solution  
Ichiro Tanaka (Wakayama University, Japan)
- AP2-07** Polyazomethine Films as Photoaligning Layer for Liquid Crystals  
Yan Tan (Shizuoka University, Japan)
- AP2-08** Flexible OFETs based on TIPS pentacene/PS blends prepared by ESD  
Norio Onojima (University of Yamanashi, Japan)
- AP2-09** Synthesis and Semiconducting Property of Pentaphene Derivatives  
Yuya Chiba (Iwate University, Japan)
- AP2-10** Light-harvesting Surface-enhanced Raman Spectroscopy Substrates  
Rintaro Matsuda (Kyushu University, Japan)
- AP2-11** Evaluation for the amount of oxygen functional group in hydrophilic carbon materials by potentiometric titration  
Riona Hayashi (Saga University, Japan)
- AP2-12** Interpretation of modulus spectra in organic field-effect transistors : equivalent-circuit approach  
Yu Suenaga (Osaka Prefecture University, Japan)
- AP2-13** Device structure dependence of capacitance-voltage characteristics in pentacene MIS device  
Cheonmyeong Kim (Keio University, Japan)
- AP2-14** Fabrication of TiO<sub>2</sub> Nanocones Using Ion-Tracks of Polymer Membranes  
Hiroshi Koshikawa (National Institutes for Quantum and Radiological Science and Technology, Japan)
- AP2-15** Fabrication and Characterization of Microcavities Containing Submicron Particle Films of 5,5'-Di(4-biphenyl)-2,2'-bithiophene  
Hitoshi Mizuno (Nara Institute of Science and Technology, Japan)
- AP2-16** Hydrolysis resistance of alkylphosphonic acid monolayer  
Noboru Hiwasa (Kyoto University, Japan)
- AP2-17** Electron-Injection Characteristics of Diamond Nanoparticle Thin Films Adsorbed on Self-Assembled Monolayers  
Somin Park (Tokyo University of Agriculture and Technology, Japan)

- AP2-18** Orientation Control of Vapor-Deposited Polyimide Thin Films by SAMs  
Hiroaki Usui (Tokyo University of Agriculture and Technology, Japan)
- AP2-19** Characteristics of Vapor-deposited Naphthalene Diimide Derivatives  
Takuya Izumi (Tokyo University of Agriculture and Technology, Japan)
- AP2-20** Isomerization sensitivity of amorphous azobenzene surface  
Ikumi Takemoto (Osaka Kyoiku University, Japan)
- AP2-21** Detection of heart natriuretic peptide using a novel amphiphilic monomer produced molecularly imprinted polymers  
Chung-Yin Lin (Chang Gung University, Taiwan)
- AP2-22** Low Temperature Fabrication of Polyether-containing Polyurethane Thin Films by Vapor Deposition Polymerization  
Tomoki Hashizume (Shizuoka University, Japan)
- AP2-23** Variations of the crystal grain density by liquid-introduction during vacuum deposition of thin films  
Tetsu Katayama (Tokyo University of Agriculture and Technology, Japan)
- AP2-24** Formation of aligned peptide films by blade coating and their structural analysis  
Kazunori Motai (Tokyo Institute of Technology, Japan)
- AP2-25** Electronic Properties of Molecular Nanocoils Composed of TTF Derivatives with Chiral Units and F4TCNQ Complexes  
Yoko Tatewaki (Tokyo University of Agriculture and Technology, Japan)
- AP2-26** Dry Adhesive Layers by Vapor-deposited Acryl Polymer Films  
Yamato Ogawa (Tokyo University of Agriculture and Technology, Japan)
- AP2-27** Thermal Polymerization of N,N'-Bis(p-vinyl-benzyl)-naphthalenediimide in Microcrystalline and in Vapor Deposited Film  
Satoshi Usui (Niigata University, Japan)

### ***Session C (Organic Devices and Applications)***

- CP2-01** Fabrication of FET with Donor-Acceptor Interfaces aiming for Phase Transition FET  
Saki Uchida (Chiba University, Japan)
- CP2-02** Vertically-aligned molecular transistors for large-scale integration  
Ryoma Hayakawa (National Institute for Materials Science, Japan)
- CP2-03** Investigation of local electric properties of organic polymer thin-film transistors by Kelvin-probe force microscopy  
Masahiro Takeshita (Kyoto University, Japan)
- CP2-04** Perovskite and Conjugated Polymer Wrapped Semiconducting Carbon Nanotube Hybrid Films for High Performance Transistors and Phototransistors  
Huihui Zhu (Pohang University of Science and Technology, Republic of Korea)
- CP2-05** Electroluminescence from Double Heterostructures of Perovskite Semiconductors and Thiophene/Phenylene Co-oligomers  
Fumio Sasaki (National Institute of Advanced Industrial Science and Technology, Japan)
- CP2-06** Surface properties of oriented polytetrafluoroethylene films with a micrometer pitch  
Yuki Matsuda (Kobe University, Japan)
- CP2-07** Microcavity with organic luminescent material with long exciton lifetime  
Keita Imai (Kyoto Institute of Technology, Japan)
- CP2-08** 128×96-pixel, 20-um-pixel-pitch blue-light-sensitive organic image sensor fabricated using a DNTT derivative  
Tomomi Takagi (NHK, Japan)

- CP2-09** Determination of contact resistance in organic field-effect transistors by least-squares fitting using a genetic algorithm  
Takashi Nagase (Osaka Prefecture University, Japan)
- CP2-10** Characteristics of Electron Injection at Oxide Electrode/Polyethyleneimine/Alq3 Interface  
Masahiro Morimoto (University of Toyama, Japan)
- CP2-11** Characteristic of Three type Host in Phosphorescent Organic Light-Emitting Diodes  
Dong-Eun Kim (Pohang University of Science and Technology, Republic of Korea)
- CP2-12** Molecular Engineering of Tetrabenzoporphyrin toward Efficient Charge-Carrier Transport in Solution-Processed Thin Films  
Eunjeong Jeong (Nara Institute of Science and Technology, Japan)
- CP2-13** Preparation of CH<sub>3</sub>NH<sub>3</sub>PbBr<sub>3</sub> Perovskite LEDs and Addition Effect of Lead Acetate  
Yoshiki Kondo (Aichi Institute of Technology, Japan)
- CP2-14** Analysis of efficiency roll-off in blue fluorescent organic light emitting diodes utilizing triplet-triplet annihilation by time-resolved EL  
Shoichi Asagatani (Japan Advanced Institute of Science and Technology, Japan)
- CP2-15** Performance improvement of solution-processed optical organic transistor memories using binary small molecules dispersed polymer storage layers  
Hayato Abe (Osaka Prefecture University, Japan)
- CP2-16** Investigation of degradation mechanisms of highly efficient blue fluorescent organic light emitting diodes through analysis of exciton dynamics  
Duy Cong Le (Japan Advanced Institute of Science and Technology, Japan)
- CP2-17** Development of a new type semiconductor radiation detector using conductive polymer  
Eri Miyata (Niigata University, Japan)
- CP2-18** Influence of contact resistance on the linear and saturation field-effect mobilities of high-performance top-gate organic transistors  
Shion Tazuhara (Osaka Prefecture University, Japan)
- CP2-19** Preparing perovskite CH<sub>3</sub>NH<sub>3</sub>PbBr<sub>3</sub> nanocrystals using various organic ligands for light-emitting diodes  
Kazuki Umemoto (Yamagata University, Japan)
- CP2-20** Solution-processable molecular floating-gate transistor memories with improved electron injection characteristics  
Miho Higashinakaya (Osaka Prefecture University, Japan)
- CP2-21** Charge Order Phase Transition Transistor Realized by using Lamination Contact Electrode  
Teruki Sano (Chiba University, Japan)
- CP2-22** Improvement of thermal stability of pentacene-based OFET by increasing the deposition temperature  
Kyungeun Park (Tokyo Institute of Technology, Japan)
- CP2-23** Application to Phototransistor using Metal Base Organic Transistors  
Kodai Takahashi (Osaka University, Japan)

### ***Session F (Organic Photovoltaics and Energy Harvesting)***

- FP2-01** Thermoelectric Properties of Pelletized Organic Semiconductor Powders  
Hiroataka Kojima (Nara Institute of Science and Technology, Japan)
- FP2-02** Improvement in stability of vibration-based self-assembled electret generator against light irradiation by using wide-energy-gap molecule 1,3,5-tris (1-phenyl-1H-benzimidazol-2-yl)  
Noritaka Matsuura (Chiba University, Japan)

- FP2-03** Tuning of electronic properties of novel donor-acceptor polymers having oligothiophenes with electron-withdrawing ester groups  
Ichiro Imae (Hiroshima University, Japan)
- FP2-04** Dry/wet hybrid growth of FA1-xMAxPbI3-xBrx perovskite films  
Junta Kagae (Kyoto Institute of Technology, Japan)
- FP2-05** Solution-Processed Conductive Interconnecting Layer for Highly-Efficient and Long-Term Stable Monolithic Perovskite Tandem Solar Cells  
Chih-Yu Chang (Taipei Medical University, Taiwan)
- FP2-06** Correlation between the energetic difference of the electronic states and charge generation efficiency in organic solar cells  
Kyohei Nakano (RIKEN, Japan)
- FP2-07** Development of carbon nanotube organic thermoelectric materials using cyclodextrin polymer: Control of semiconductor characteristics by the solvent effect  
Shinichi Hata (Sanyo-Onoda City University, Japan)
- FP2-08** Influence of Materials Dispersion Method on the Thermoelectric Property of Carbon Nanotube Yarns  
Shu Obokata (Nara Institute of Science and Technology, Japan)
- FP2-09** Investigation of Giant Seebeck effect in Various Organic Single Crystal  
Kohei Kojima (Nara Institute of Science and Technology, Japan)