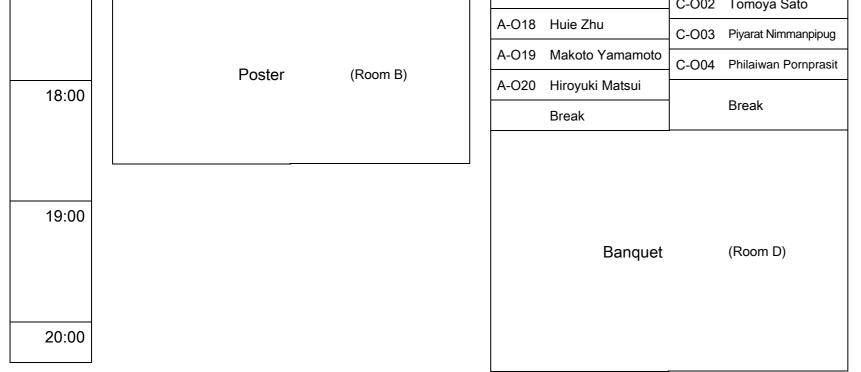
M&BE8 Time Table

		June 22		(Monday)			June 23		(Tuesday)		J	June 24		(Wednesday)
		Room A		Room C			Room A		Room C		F	Room A		Room C
9:30					PL-	2	Sung Ha Park		(Plenary Hall)	PL	3	Luisa Torsi		(Plenary Hall)
10:00							Break		Break		E	Break		Break
					A-12		Dean Delongchamp	E-l2	Hyangmi Jung	A-14	Т	Гае-Woo Lee	B-I1	Jacques-E. Moser
11:00					A-0	03	Roger Haeusermann	E-004	Yanqing Li	A-C	21 J	lianxin Tang	B-O01	Katharina Broch
					A-O	04	Leszek Mazur	E-005	Cher Lertchaiwarakul	A-C	22 Y	Yutaka Noguchi	B-002	Hiroumi Kinjo
					A-0	05	Dai Taguchi		Break	A-C	23 H	Hirotake Kajii	B-O03	Hiroyuki Yoshida
					A-0	06	Ryo Shiraishi	E-006	Hironori Ogata	A-C	24 T	Tomo Sakanoue	B-004	Hiromi Ikeura-Sekiguch
12:00					A-0	07	Fabio Bussolotti	E-007	Olga Bubnova	A-C	28 N	Masanao Era		
					A-O	08	Yasuo Nakayama	E-008	Kyohei Nakano					
											L	∟unch		Lunch
13:00							Lunch		Lunch					
		Opening Address		(Plenary Hall)						C-I2	2	Motonori Komura	B-12	Masami Nakamoto
	PL-1	Antoine Kahn		(Plenary Hall)										
14:00					A-IL	.1	Toshihiro Okamoto	D-13	Ming-Dou Ker			Masanao Era		Ken-ichi Nomura
		Break		Break								Fakenori Nitta	B-O06	Yasuyuki Kusaka
	E-I1	Takao Ishida	D-I1	Qian Wang			Masahiro Nakano		Yuhki Yanase	C-C		abrice Mathevet		Break
					↓ ├──		Koji Nakano	D-006	Hironari Takehara		E	Break	B-O07	Ryosuke Matsubara
15:00	E-001	D.Wongratanaphisan	D-001	Takumi Isogai	↓		Mark Nikolka		Break	A-IL	2 K	Kenjiro Fukuda		Kazuaki lwasawa
	E-002	Akira Baba	D-O02	Ryosuke Kimura	↓ ├──		Ayi Bahtiar		Chie Hosokawa					Takashi Isoshima
	E-003	Seiichiro Izawa		Break	↓ ├──		Steffen Duhm		Kiichi Niitsu			Pollawat Prisawong	B-O10	Lars Smykalla
		Break	D-12	Mitsuhiro Okuda			Toyokazu Yamada		Kohei Gamo			Sotaro Ono		
16:00	A-I1	Jun Takeya			A-0		Taishi Nishihara	D-O10	Suiki Tanaka	A-C		Hiroshi Ito Break		
		-	D-O03	Toshinori Motegi	↓		Break		Break			Closing Remark		
	A-O01 A-O02	Toshinori Matsushima Soren V. Petersen	D-004	Kazuki Ito	A-I3	•	Dae-Hyeong Kim	C-I1	Keiji Tanaka	L			I	
17:00		Break		Break	A-0	16	Dongkai Cheng	C-001	Igor Romanov					
17.00			<u> </u>		A-0	17	Tatsunosuke Matsui		Tomoya Sato					



Program

Monday, June 22, 2015

Plenary Hall

13:20 - 13:30 Opening Address

Hisao Ishii (Chiba University, Japan)

13:30 - 14:10 Plenary Session

Chairperson: Hisao Ishii (Chiba University, Japan)

PL-1 (Plenary Lecture)

13:30 - 14:10 Chemical doping of organic semiconductors: applications to devices and challenges <u>Antoine Kahn</u> (Princeton University, U. S. A.)

14:10 - 14:25 Short Break

Monday, June 22, 2015

Room A

14:25 - 15:40 Session E (Energy Harvesting)

Chairperson: Masayuki Chikamatsu (AIST, Japan)

- E-I1 (Invited)
- 14:25 14:55 Thermoelectric properties of ordered PEDOT:PSS films for energy harvesting Takao Ishida (AIST, Japan)
- E-001

E-002

A-001

14:55 - 15:10 Screening copper oxide nanofibers as a barrier in ZnO dye-sensitized solar cells for efficiency enhancement

Duangmanee Wongratanaphisan (Chiang Mai University, Thailand)

- 15:10 15:25 Fabrication of nanostructured metallic gating based plasmonic organic solar cells <u>Akira Baba</u> (Niigata University, Japan)
- **E-O03** 15:25 15:40
- 15:25 15:40 Dominant effects of first monolayer energetics at donor/acceptor interfaces on organic photovoltaics Seiichiro Izawa (The University of Tokyo, Japan)
- 15:40 15:55 Short Break

15:55 - 16:55 Session A (Organic Devices and Molecular Electronics)

Chairperson: Itaru Osaka (RIKEN, Japan)

- A-I1 (Invited) 15:55 - 16:25 Giant effect of structural deformation on high-mobility organic transistors Jun Takeya (The University of Tokyo, Japan)
- 16:25 16:40 Compressed organic powders as semiconductors for field-effect transistors <u>Toshinori Matsushima</u> (Kyushu University, Japan)

A-002

16:40 - 16:55Graphene derivatives as interface material in vertical solid state devices
Soren Vermehren Petersen (University of Copenhagen, Denmark)

Monday, June 22, 2015

Room C

14:25 - 15:25	Session D (Biomolecular Electronics and Bioanalysis) Chairperson: Keiko Tawa (Kwansei Gakuin University, Japan)
D-I1 (Invited)	
14:25 - 14:55	Virus particles as enabling building blocks for chemistry and biomedical applications <u>Qian Wang</u> (University of South Carolina, U. S. A.)
D-001	
14:55 - 15:10	Effect of magnesium ion concentration on the two-dimensional structure of DNA-functionalized nanoparticles on supported lipid bilayer <u>Takumi Isogai</u> (Nagoya University, Japan)
D-O02	
15:10 - 15:25	Force measurement on pore-spanning lipid bilayer by atomic force microscope <u>Ryosuke Kimura</u> (Yokohama National University, Japan)
15:25 - 15:40	Short Break
15:40 - 16:40	Session D (Biomolecular Electronics and Bioanalysis)
D-I2 (Invited)	Chairperson: Shinya Kumagai (Toyota Technological Institute, Japan)
15:40 - 16:10	Nanoscale patterning based on biomolecular-assembly
10.10	Mitsuhiro Okuda (CIC nanoGUNE, IKERBASQUE, Spain)
D-003	
16:10 - 16:25	Molecular diffusion in supported lipid membrane on various substrate <u>Toshinori Motegi</u> (Toyohashi University of Technology, Japan)
16:10 - 16:25 D-O04	

Monday, June 22, 2015

Room B

17:10 - 18:40 Poster Session

Tuesday, June 23, 2015

Plenary Hall

9:30 - 10:10 Plenary Session

Chairperson: Yuji Yoshida (AIST, Japan)

PL-2 (Plenary Lecture)

9:30 - 10:10 DNA nanostructures and their applications Sung Ha Park (Sungkyunkwan University, Korea)

10:10 - 10:25 Short Break

Tuesday, June 23, 2015

Room A

	Session A (Organic Devices and Molecular Electronics) Chairperson: Itaru Osaka (RIKEN, Japan)		
A-I2 (Invited) 10:25 - 10:55	Structure foundations of high performance in polymer semiconductors <u>Dean Delongchamp</u> (National Institute of Standards and Technology, U. S. A.)		
A-003			
10:55 - 11:10	Origin of the gate voltage dependence of the contact resistance in organic FETs <u>Roger Haeusermann</u> (The University of Tokyo, Japan)		
A-004			
11:10 - 11:25	Thermally-induced majority carrier type conversion and contact resistance kinetics in a quinoidal oligothiophene derivative.		
	Leszek Mazur (Wroclaw University of Technology, Poland)		
A-005			
11:25 - 11:40	Analysis of energy states of carriers in Au/pentacene/polyimide/ITO diode by using electroluminescence spectroscopy and EFISHG measurement		
1 000	Dai Taguchi (Tokyo Institute of Technology, Japan)		
A-006			
11:40 - 11:55	Image potential states of phthalocyanines on HOPG studied with low-energy inverse photoemission spectroscopy Ryo Shiraishi (Kyoto University, Japan)		
A-007	<u>Kyo Shiraishi</u> (Kyoto Oniversity, Japan)		
A-007 11:55 - 12:10	Local electron-phonon coupling in HOMO-band dispersion of rubrene single crystals: an angle-resolved ultraviolet photoelectron spectroscopy study <u>Fabio Bussolotti</u> (Institute of Molecular Science, Japan)		
A-008	<u>I dolo Dussolotti</u> (Institute of Molecular Science, Japan)		
12:10 - 12:25	Core-levels and valence band electronic structures of the pentacene single crystal Yasuo Nakayama (Tokyo University of Science, Japan)		
12:25 - 13:50	Lunch		
12:25 - 13:50	Lunch		

13:50 - 16:05 Session A (Organic Devices and Molecular Electronics)

Chairperson: Tomohiko Mori (Toyota Central R&D Labs., Japan)

A-IL1 (Invited Late News)

^{13:50 - 14:20} Sulfur-bridged bent-shaped organic semiconductors for printed and flexible electronics

	Toshihiro Okamoto (The University of Tokyo, Japan)		
A-O09 14:20 - 14:35	Naphthodithiophene diimide (NDTI): a useful building block for the development of ambipolar and unipolar n-type polymers <u>Masahiro Nakano</u> (RIKEN, Japan)		
A-O10			
14:35 - 14:50	Benzo[1,2-b:4,5-b']difuran-fused conjugated compounds: synthesis, properties, and application to organic field-effect transistors Koji Nakano (Tokyo University of Agriculture and Technology, Japan)		
A-011			
14:50 - 15:05	Approaching disorder-free transport in high-mobility conjugated polymers Mark Nikolka (University of Cambridge, United Kingdom)		
A-012			
15:05 - 15:20	Enhanced charge carrier transport in the blend of P3HT:squaraine capped zinc oxide nanoparticles		
	<u>Ayi Bahtiar</u> (Universitas Padjadjaran, Indonesia)		
A-013			
15:20 - 15:35	Electrical doping of organic thin films by mutual molecular hybridization: Impact of side groups and electron affinity <u>Steffen Duhm</u> (Soochow University, China)		
A-014	<u>Serien Dunin</u> (Sobenow University, China)		
15:35 - 15:50	Imaging single atom d-states on single organic molecules <u>Toyokazu Yamada</u> (Chiba University, Japan)		
A-015			
15:50 - 16:05	Recombination dynamics of the lowest-energy excitons in single-walled carbon nanotubes under resonant and nonresonant excitation <u>Taishi Nishihara</u> (Kyoto University, Japan)		
16:05 - 16:20	Short Break		
16:20 - 18:05	Session A (Organic Devices and Molecular Electronics)		
	Chairperson: Tsuyoshi Sekitani (Osaka University, Japan)		
A-I3 (Invited)			
16:20 - 16:50	Stretchable inorganic devices for skin-based bio-electronics		
	Dae-Hyeong Kim (Seoul National University, Korea)		
A-016			
16:50 - 17:05	Micro heater array based on organic field-effect transistors <u>Dongkai Cheng</u> (The University of Tokyo, Japan)		
A-017			

- 17:05 17:20 Efficient optical terahertz-transmission modulation in solution processed organic semiconductor thin films on silicon substrate <u>Tatsunosuke Matsui</u> (Mie University, Japan)
- A-018 17:20 - 17:35 Control of charge transfer and accumulation at ferroelectric polymer/conjugated polymer hybrid interfaces for resistive nonvolatile memories <u>Huie Zhu</u> (Tohoku University, Japan)
- A-019
 17:35 17:50 Observation of molecular floating gate effects in silver nanoparticles single-electron transistors in copper phthalocyanine derivative <u>Makoto Yamamoto</u> (Chiba University, Japan)
 A-020
- 17:50 18:05 Wireless serial data transmission by solution-processed single-crystalline organic transistors <u>Hiroyuki Matsui</u> (The University of Tokyo, Japan)

Tuesday, June 23, 2015

Room C

10:25 - 11:25 Session E (Energy Harvesting)

Chairperson:	Keisuke Tajima	(RIKEN, Japan)
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E-I2 (Invited)	
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- 10:25 10:55Development of organic photovoltaic modules and EIPV devices
Hyangmi Jung (Toshiba, Japan)
- E-004
- 10:55 11:10 Enhanced light harvesting in polymer solar cells featuring biomimetic light trapping scheme Yanqing Li (Soochow University, China)

E-005

- 11:10 11:25 Green light absorbing organic photovoltaic cells for energy harvesting: active material with complementally absorption to chlorophylls <u>Cher Lertchaiwarakul</u> (Nara Institute of Science and Technology, Japan)
- 11:25 11:40 Short Break

11:40 - 12:25 Session E (Energy Harvesting)

Chairperson: Keisuke Tajima (RIKEN, Japan)

E-006

11:40 - 11:55 The effect of solvent additives on the phase separation and crystallinity in organic bulk heterojunction films studied by solid-state NMR Hironori Ogata (Hosei University, Japan)

E-007 11:55 - 12:10 Efficiency enhancement and performance optimization strategies of singlet fission BHJ solar cells

Olga Bubnova (University of Cambridge, United Kingdom)

E-008

- 12:10 12:25 Effect of disordered phase at organic donor/acceptor interface on photovoltaic performance Kyohei Nakano (RIKEN, Japan)
- 12:25 13:50 Lunch

13:50 - 14:50	Session D (Biomolecular Electronics and Bioanalysis)
	Chairperson: Jun Ohta (Nara Institute of Science and Technology, Japan),
	Chie Hosokawa (AIST, Japan)
D-I3 (Invited)	
13:50 - 14:20	The development and challenges of implantable neuro-prosthetic devices
	Ming-Dou Ker (National Chao Tung University, Taiwan)
D-005	
14:20 - 14:35	Multi-well SPR imaging sensor for clinical diagnosis of allergy
	Yuhki Yanase (Hiroshima University, Japan)
D-006	
14:35 - 14:50	A micro light pipe array with an excitation attenuation filter for lensless digital enzyme-linked
	immunosorbent assay
	<u>Hironari Takehara</u> (Nara Institute of Science and Technology, Japan)

14:50 - 15:05 Short Break

15:05 - 16:05	Session D (Biomolecular Electronics and Bioanalysis) Chairperson: Keiko Tawa (Kwansei Gakuin University, Japan)
D-007	
15:05 - 15:20	Optical trapping dynamics of neurotransmitter receptors on a neuronal cell <u>Chie Hosokawa</u> (AIST, Japan)
D-008	
15:20 - 15:35	A low-power CMOS magnetic cell manipulation platform using charge recycling technique <u>Kiichi Niitsu</u> (Nagoya University, Japan)
D-009	
15:35 - 15:50	A CMOS current integration circuit with 1.2 μ m × 2.05 μ m electroless-plated 1024 × 1024 microelectrode array for high-sensitivity bacteria detection Kohei Gamo (Nagoya University, Japan)
D-O10	
15:50 - 16:05	An inverter-based CMOS level-crossing ADC for low-power biosensing Suiki Tanaka (Nagoya University, Japan)
16:05 - 16:25	Short Break
16.75 - 17.55	Session C (Liquid Crystals, Polymers and Other Soft Materials)
	Chairperson: Koichi Sakaguchi (Saga University, Japan)
C-I1 (Invited)	
16:25 - 16:55	Structure and dynamics of polymers in thin films <u>Keiji Tanaka</u> (Kyushu University, Japan)
C-O01	
16:55 - 17:10	Charge modulation spectroscopy study of indacenodithiophene-co-benzothiadiazole polymer Igor Romanov (University of Cambridge, United Kingdom)
C-O02	
17:10 - 17:25	Direct determination of density of states of several polymers including gap states studied by high sensitivity photoemission and photoelectron yield spectroscopy <u>Tomoya Sato</u> (Chiba University, Japan)
C-003	
17:25 - 17:40	Preparation and characterization of enhanced mechanical properties natural rubber/ZnO nanocomposite Piyarat Nimmanpipug (Chiang Mai University, Thailand)
C-004	<u></u>
17:40 - 17:55	Surface morphology and chemistry alternation of natural rubber using low temperature plasma treatment Philaiwan Pornprasit (Maejo University, Thailand)

Tuesday, June 23, 2015

Room D

18:20 - 20:20 Banquet

Wednesday, June 24, 2015

Plenary Hall

9:30 - 10:10 Plenary Session

Chairperson: Tsuyoshi Sekitani (Osaka University, Japan)

PL-3 (Plenary Lecture)

9:30 - 10:10 Printable bioelectronics to investigate functional biological interfaces Luisa Torsi (Universita degli Studi di Bari, Italy)

10:10 - 10:25 Short Break

Wednesday, June 24, 2015

Room A

10:25 - 11:55	Session A (Organic Devices and Molecular Electronics) Chairperson: Tomohiko Mori (Toyota Central R&D Labs., Japan)	
A-I4 (Invited)		
10:25 - 10:55	Organic/inorganic perovskite optoelectronics using self-organized conducting polymer layers <u>Tae-Woo Lee</u> (Pohang University of Science and Technology, Korea)	
A-021		
10:55 - 11:10	High-efficiency flexible organic light-emitting diodes with novel light outcoupling structures Jianxin Tang (Soochow University, China)	
A-O22		
11:10 - 11:25	The roles of interface charge in organic light-emitting diodes doped by a thermally activated delayed fluorescence emitter <u>Yutaka Noguchi</u> (Meiji University, Japan)	
A-O23		
11:25 - 11:40	Degradation analysis of near-infrared phosphorescence organic light-emitting diodes based on Pt-complex	
	Hirotake Kajii (Osaka University, Japan)	
A-024		
11:40 - 11:55	Light-emitting electrochemical cell aiming for polymer injection laser <u>Tomo Sakanoue</u> (Waseda University, Japan)	
A-O28		
11:55 - 12:10	Optical properties of PbI-based layered perovskite having high photoluminescence efficiency Masanao Era (Saga University, Japan)	
12:10 - 13:20	Lunch	
13:20 - 14:35	Session C (Liquid Crystals, Polymers and Other Soft Materials)	
	Chairperson: Hiroaki Iino (Tokyo Institute of Technology, Japan)	
C-I2 (Invited)		
13:20 - 13:50	Anomalously regular nanophase separation in liquid crystalline block copolymer film and its templating processes	
	Motonori Komura (National Institute of Technology, Numazu College, Japan)	
C-005		
13:50 - 14:05	High hole mobility of benzo-2,1,3-thiadiazole polycrystalline film formed by utilizing self-organizing nature of liquid crystalline mesophase	

C 00(Masanao Era (Saga University, Japan)
C-O06 14:05 - 14:20	Carrier transport properties of highly ordered smectic phase in wide temperature range <u>Takenori Nitta</u> (Tokyo Institute of Technology, Japan)
C-O07	
14:20 - 14:35	Intertwined co-assemblies in liquid-crystalline π -conjugated materials: towards a new class of nanostructured supramolecular organic semiconductors <u>Fabrice Mathevet</u> (University of Pierre and Marie Curie, France)
14:35 - 14:50	Short Break
14:50 - 16:20	Session A (Organic Devices and Molecular Electronics)
	Chairperson: Tsuyoshi Sekitani (Osaka University, Japan)
A-IL2 (Invited I	
14:50 - 15:20	Printed organic thin-film transistors with excellent electrical uniformity <u>Kenjiro Fukuda</u> (Yamagata University, Japan)
A-025	
15:20 - 15:35	Self-assembled monolayer micropatterning by UV treatment for organic field-effect transistors <u>Pollawat Prisawong</u> (The University of Tokyo, Japan)
A-O26	
15:35 - 15:50	Benzophenone-terminated SAM as interfacial layer of ITO and HTL Sotaro Ono (Tokyo University of Agriculture and Technology, Japan)
A-027	
15:50 - 16:05	Critical regime for the insulator-metal transition in highly-ordered conjugated polymers gated with ionic liquid
	<u>Hiroshi Ito</u> (Nagoya University, Japan)
16:05 - 16:15	Short Break

Wednesday, June 24, 2015

Room C

10:25 - 11:55	Session B (Fabrication Technique and Characterization)		
	Chairperson: Akihiro Furube (Tokushima University, Japan)		
B-I1 (Invited)			
10:25 - 10:55	Dynamics of photoinduced charge separation at donor-acceptor heterojunctions		
	Jacques-E. Moser (Ecole Polytechnique Fédérale de Lausanne, Switzerland)		
B-O01			
10:55 - 11:10	Singlet fission in small molecule organic semiconductors: The role of homo- and		
	heteromolecular charge transfer		
	Katharina Broch (University of Cambridge, United Kingdom)		
B-O02			
11:10 - 11:25	Negative ion photoemission as a tool to investigate unoccupied states of organic EL materials		
	Hiroumi Kinjo (Chiba University, Japan)		
B-003			
11:25 - 11:40	Origin of the orientation dependence of the ionization energy and electron affinity in organic		
	molecular films		
	Hiroyuki Yoshida (Chiba University, Japan)		
B-004			
11:40 - 11:55	Electronic structure of sulfur containing conjugated polymer using X-ray absorption and electron spectroscopy		

Hiromi Ikeura-Sekig	guchi (AIST, Japan)
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13:20 - 14:20	Session B (Fabrication Technique and Characterization) Chairperson: Shin-ichiro Nakajima (Japan Aviation Electronics, Japan)
B-I2 (Invited)	
13:20 - 13:50	Micro/nano-fabrication leading on to printed electronics Masami Nakamoto (Osaka Municipal Technical Research Institute, Japan)
B-O05	
13:50 - 14:05	Simultaneous formation of fine and large-area electrode patterns using screen-offset printing <u>Ken-ichi Nomura</u> (National Institute of Advanced Industrial Science and Technology, Japan)
B-006	
14:05 - 14:20	Rapid prototyping of printed electronic devices: Planographic reverse offset printing Yasuyuki Kusaka (National Institute of Advanced Industrial Science and Technology, Japan)
14:20 - 14:35	Short Break
14:35 - 15:50	Session B (Fabrication Technique and Characterization)
	Chairperson: Atsushi Kubono (Shizuoka University, Japan)
B-O07	
14:35 - 14:50	Growth of organic thin films by ultra-high-speed vacuum deposition and fabrication of organic thin-film transistors
	Ryosuke Matsubara (Nara Institute of Science and Technology, Japan)
B-008	
14:50 - 15:05	Growth of pentacene thin film on wiring-pattern Cu-SiO ₂ substrate studied by photoelectron emission microscopy Kazuaki Iwasawa (Chiba University, Japan)
B-009	
15:05 - 15:20	Influence of surface roughness to spontaneous polar molecular orientation in vacuum-deposited Alq ₃ thin films showing giant surface potential <u>Takashi Isoshima</u> (RIKEN, Japan)
B-O10	
15:20 - 15:35	Interplay between hydrogen bonding and molecule-substrate interaction in self-assembled structures of porphyrin molecules and manipulation of their electronic structure by dehydrogenation Lars Smykalla (Technische Universitat Chemnitz, Germany)

Wednesday, June 24, 2015

Room A

16:15 - 16:25 Closing Remark

Poster Presentations

17:10 - 18:40, Monday, June 22, 2015

Room B

Session A (Organic Devices and Molecular Electronics)

A-P01	Synthesis and characterization of spiro type host material for blue organic light-emitting doides
	Min Hye Seo (KITEHC, Korea)
A-P02	Organic crystal light-emitting transistors combined with a metal oxide layer
	Keiji Obara (Kyoto Institute of Technology, Japan)
A-P03	Synthesis of organic semiconductor copolymers with polydimethylsiloxane as side chains for
	application to organic electronic devices
	Inori Onishi (The University of Tokyo, Japan)
A-P04	States at interfaces in metal/pentacene/SiO ₂ /Si studied by hard X-ray photoelectron spectroscopy under
	applied bias voltage
	Ichiro Hirosawa (Japan Synchrotron Radiation Reserch Institute, Japan)
A-P05	The surface-plasmon polariton energy extraction method using thin-film light extraction layers for high
	efficient of organic light-emitting diodes
	Doo-Hoon Kim (Soonchunhyang University, Korea)
A-P06	Transparent organic light-emitting devices with ethoxylated polyethylenimine as electron injection
	layer
	Hironao Sano (University of Toyama, Japan)
A-P07	Wettability properties of substituted-benzenethiol monolayers on silver and gold surfaces
	Shingo Tatara (Kobe University, Japan)
A-P08	Dinaphthothienothiophen thin-film transistors with threshold voltage shift induced by oxygen plasma
	Asahi Kitani (Kobe University, Japan)
A-P09	Flexible OFET fabricated by ultrasonic welding method aiming at solvent-free and low temperature
	process
	Tatsuhiko Sasaki (Chiba Univercity, Japan)
A-P10	Write once memory effects observed in Ga-doped ZnO/organic semiconductor/MoO ₃ /Au structures
	Junya Hasegawa (Osaka Prefecture University, Japan)
A-P11	A TSC method coupled with EFISHG measurement for studying carrier trap energies and detrapped
	carrier behaviors in IZO/polyimide/pentacene/Au MIS diode
	Hideki Hosokawa (Tokyo Institute of Technology, Japan)
A-P12	Copper phthalocyanine synthesized by microwave irradiation and the application to thin-film
	transistors
	Shota Mizuka (Kobe University, Japan)
A-P13	Extraction of contact resistance and channel parameters from the electrical characteristics of a single
	bottom-gate/top-contact organic transistor
	Shunsuke Takagaki (Kyoto University, Japan)
A-P14	Electrical measurement of organic charge transfer complex crystal by using sticking electrodes
	Yusaku Tada (Chiba University, Japan)

- A-P15 Electronic structures and magnetic properties of multi-decker phthalocyanines Atsushi Suzuki (The University of Shiga Prefecture, Japan)
- A-P16 Investigation of optical losses in BP3T-based light emitting transistors <u>Masumi Miyazaki</u> (Waseda Univ, Japan)
- A-P17 70% increase of mobility in strained organic crystals Takayoshi Kubo (The University of Tokyo, Japan)
- A-P18 Hall effect and high mobility in highly aligned polymer semiconductors Yu Yamashita (The University of Tokyo, Japan)
- A-P19 Performance of poly(3-hexylthiophene) organic field-effect transistors fabricated by mist-vapor deposition

Shigetaka Katori (Tsuyama College, Japan)

- A-P20 Carrier injection and accumulation in double-layer OLED with secondary doped PEDOT:PSS anode <u>Takako Otsuka</u> (Tokyo Institute of Technology, Japan)
- A-P21 Model of exciton quenching of $Ir(ppy)_3$ with hole measured by time-resolved luminescence spectroscopy

Shiho Oyama (Japan Advanced Institute of Science and Technology, Japan)

- A-P22 Role of alkyl side chains at self-assembly, electronic structure and charge arrangement in alkyl-substituted sexithiophene thin films Steffen Duhm (Soochow University, China)
- A-P23 Inverted organic light-emitting diodes using different transparent conductive oxide films as a cathode <u>Makoto Takada</u> (Osaka Prefecture University, Japan)
- A-P24 Carrier behavior in highly oriented organic semiconductor thin film studied by visualized carrier motion

Takaaki Manaka (Tokyo Institute of Technology, Japan)

- A-P25 Improved electroluminescence with reversed bilayer of thiophene/phenyene co-oligomer derivatives Shohei Dokiya (Nara Institute of Science and Technology, Japan)
- A-P26 Organic nonvolatile resistive memory devices with polyisocyanide bearing origothiophene Yasushi Sakuragawa (Japan Advanced Institute of Science and Technology, Japan)
- A-P27 Passivation process on electro-optics polymer using Al₂O₃ thin films fabricated by atomic layer deposition

Yukihiro Tominari (National Institute of Information and Communications Technology, Japan)

- A-P28 Development of photoswitching devices consisting of an metal-nanoparticle Sou Ryuzaki (Kyushu University, Japan)
- A-P29 Synthesis, properties, and organic device performances of naphthobischalcogenadiazole-based polymers

Kazuaki Kawashima (RIKEN, Japan)

- A-P30 Effects of magnetic field and gold nanoparticles on photocurrents of zinc porphyrin-viologen linked compound-gold nanoparticle composite films
 - Hiroaki Yonemura (Kyushu University, Japan)
- A-P31 Double chemically anchored Au nanoparticle single-electron transistor Yasuo Azuma (Tokyo Institute of Technology, Japan)
- A-P32 Dispersibility improvement of graphite derivatives by Fenton reaction <u>Seiko Uchino</u> (Saga University, Japan)
- A-P33 Preparation of PbBr-based layered perovskite superlattice films having p-conjugated polymer as an organic layer by using Langmuir-Blodgett technique and their optical nonlinearity <u>Yuta Sakuma</u> (Saga University, Japan)

A-P34	Electronic structures of the pentacene single crystal clean surface prepared by vacuum cleavage
	Yuta Mizuno (Chiba University, Japan)

- **A-P35** Interaction of alkyl radicals with fullerene (C₆₀): density functional theory (DFT) study <u>Shigeaki Abe</u> (Hokkaido University, Japan)
- A-P36 THz and far-infrared spectroscopy of electro-optic polymers <u>Toshiki Yamada</u> (National Institute of Information and Communications Technology, Japan)
 A-P37 Molecular rectification of ferrocenyl-terminated self-assembled monolayers formed on Au (111) and Si
- A-P37 Molecular rectification of ferrocenyl-terminated self-assembled monolayers formed on Au (111) and S1 (111)

Anchun Cheng (Kyoto University, Japan)

- A-P38 Orientation polarization in doped OLED: the formation of interface charge and deep trap <u>Ryuta Ishino</u> (Chiba University, Japan)
- A-P39 Electronic structure of copper phthalocyanine/alkanethiol/Au interface investigated by low energy ultraviolet photoelectron spectroscopy Koki Dote (Chiba University, Japan)
- A-P40 Photoconversion of pentacenediketone derivatives in the crystalline phase Shape change of a single crystal during the photoconversion -

Yuya Miyamoto (Kwansei Gakuin University, Japan)

- A-P41 Control of multiexciton dynamics of a single quantum dot using an Ag tip <u>Hiroki Takata</u> (Kwansei Gakuin University, Japan)
- A-P42 Size controlled synthesis of ZnSe nanoparticles in apoferritin <u>Ae Ri Lee</u> (Gachon University, Korea)

Session B (Fabrication Technique and Characterization)

B-P01	Oriented organic semiconductors revealed using photo-electron emission microscopy with linearly
	polarized light and X-rays
	Tetsuhiro Sekiguchi (Japan Atomic Energy Agency, Japan)
B-P02	Optimization of conductive cantilevers for the AFM potentiometry measurements of
	high-ionization-potential organic semiconductors
	Satoshi Nakajima (Nara Institute of Science and Technology, Japan)
B-P03	Numerical evaluation of dispersibility for GO with long alkyl chain
	Asami Ohtake (Saga University, Japan)
B-P04	Electromagnetic field analyses using finite-difference time-domain method of OFET-type THz-wave
	sensors
	Kotaro Kimoto (Nara Institute of Science and Technology, Japan)
B-P05	Structure change of titanyl phthalocyanine (TiOPc) semiconducting thin film investigated by soft X-ray
	spectroscopies
	Chia-Hsin Wang (National Synchrotron Radiation Research Center, Taiwan)
B-P06	Surface potential measurement of α -NPD thin film fabricated by mist-vapor deposition and vacuum
	evaporation methods
	Shigetaka Katori (National Institute of Technology, Tsuyama College, Japan)
B-P07	Observation of electric state in organic thin-film transistor by bias applied - hard X-ray photoemission
	spectroscopy
	Takeshi Watanabe (JASRI, Japan)

B-P08	Spontaneous mixing of molecules at the organic semiconductor pn junction fabricated by sequential
	deposition
	Toshihiro Shimada (Hokkaido University, Japan)
B-P09	Growth of multi-layered graphene films on BaF ₂ by alcohol CVD
	Yan Tan (Shizuoka University, Japan)
B-P10	Wavelength dependence of free electron laser on chirality of single-walled carbon nanotubes
	Keisuke Yoshida (Nihon University, Japan)
B-P11	Selective growth of in-plane oriented single-walled carbon nanotubes with specific chirality by free
	electron laser irradiation
	Daiki Kawaguchi (Nihon University, Japan)
B-P12	Ultrathin films by electrophoretic deposition of diamond nanoparticles
	Yosuke Goto (Tokyo University of Agriculture and Technology, Japan)
B-P13	Porous polyurea thin films prepared by water-assisted vapor deposition polymerization
	Kenichi Horai (Shizuoka University, Japan)
B-P14	Chemical reaction process and nanorod growth of octacyanometalphthalocyanine on ultrathin metal
	films
	Yasuko Koshiba (Kobe University, Japan)
B-P15	Mixture film fabrication of Fe or Fe ₃ O ₄ nanoparticles with palmitic acid for vertically-aligned carbon
	nanotube growth using Langmuir-Blodgett technique
	Kentaro Nakamura (Chiba University, Japan)
B-P16	Solution-processed organic devices fabrication using biomass-derived greener solvent
	Shuichi Nagamatsu (Kyushu Institute of Technology, Japan)
B-P17	Simulation of spectral properties of self-assembled anisotropic gold nanorods
	Ryotaro Ozaki (Ehime University, Japan)
B-P18	Isolation of C_{76} , C_{78} and C_{84} from high-order fullerene mixture
	Kuang-Shun Liu (National Taiwan University, Taiwan)
B-P19	Oriented bulk heterojunction films prepared by friction transfer method
	Nobutaka Tanigaki (AIST, Japan)
B-P20	Development of organic dyes having intramolecular energy transfer structure for liquid scintillator
D D41	<u>Yuta Sakuma</u> (Saga University, Japan)
B-P21	Porphyrin functionalized SWCNT: Photoinduced electron transfer characterization
D D22	Elizabeth Katinka Galvan-Miranda (Universidad Nacional Autonoma de Mexico, Mexico)
B-P22	Low band gap copolymers for organic photovoltaics
B-P23	<u>Tsuyoshi Muto</u> (Lintec Corporation, Japan)
D-P23	Electronic structure of organolead halide perovskite thin films fabricated by a two-step vapor deposition method
	<u>Tsuyoshi Kajikawa</u> (Kinki University, Japan)
B-P24	Formation chemistry of perovskite solar cell materials studied by photoelectron spectroscopy
D-1 24	Yaw-Wen Yang (National Tsing Hua University, Taiwan)
B-P25	Multilayer organic light-emitting diodes fabricated by needle electrode assisted ultrasonic deposition
D-1 23	<u>Takeshi Fukuda</u> (Saitama University, Japan)
B-P26	Temperature dependence of pyroelectric coefficient in vinylidene fluoride oligomer thin films
→ 1 #0	<u>Akimitsu Mori</u> (Kobe University, Japan)
B-P27	Molecular self-assembly and structure of difluorobenzenethiols on Au(111) surfaces
	Jaegeun Noh (Hanyang University, Korea)

- **B-P28** Photochemical grafting of ferrocenyl polyethylene glycol monolayers on Si(111) and its electrochemical analysis Takashi Ichii (Kyoto University, Japan)
- B-P29 Atomic layer deposition (ALD) and sol-gel grown bare, Ni- and Li/Ni-doped ZnO thin films for gas sensor applications
 Stefan Boyadjiev (MTA-BME Technical Analytical Research Group, Hungary)

Session C (Liquid Crystals, Polymers and Other Soft Materials)

C-P01	Pd-NP/polythiophene conducting polymer nanocomposite
	Seong Huh (Hankuk University of Foreign Studies, Korea)

- C-P02 Photoluminescence properties of hybrid Langmuir-Blodgett films of amphiphilic iridium complexes with the exfoliated nanosheets on Al coated glass substrate <u>Ryotaro Ozaki</u> (Ehime University, Japan)
- C-P03 Optical anisotropy and H-aggregation formation of poly(3-alkylthiophene) in 2-D confined surface monolayer
 - Fanji Wang (University of Tokyo, Japan)
- C-P04 Carrier transport property of truxene discotic liquid crystals with three different ring substituents <u>Hirosato Monobe</u> (National Institute of Advanced Industrial Science and Technology, Japan)
- C-P05 In-plane orientation of long-chain molecules in the isotropic molten phase on a rubbed polymer surface Shun Suyama (Shizuoka University, Japan)
- C-P06 Response time improvement of aligned nanofibers/nematic liquid crystal composite device by adjusting nanofiber concentration

Toan Quoc Duong (National Defense Academy, Japan)

Session D (Biomolecular Electronics and Bioanalysis)

D-P01	Changes in the diffusion coefficient by dielectric barrier discharge irradiation of the lipid bilayer membrane
	Ryuma Yamashita (Toyohashi University of Technology, Japan)
D-P02	Reconstitution of proteoliposome containing human <i>ether-a-go-go</i> -related gene channel into supported
	lipid bilayer
	Kohei Fukumoto (Toyohashi University of Technology, Japan)
D-P03	AFM observation of voltage-dependence K ⁺ channel KAT1 reconstructed to asolectin supported lipid
	bilayer
	Yuya Suzuki (Toyohashi University of Technology, Japan)
D-P04	Modification with water-soluble silane coupling agent on SiO ₂ /Si substrate
	Yuya Niiyama (Toyohashi University of Technology, Japan)
D-P05	Au nanoparticle incorporation into supported lipid bilayer membranes and its characterization by
	atomic force microscopy
	<u>Naotoshi Sakaguchi</u> (Yokohama National University, Japan)
D-P06	Improvements in stability and conductivity of two dimensional Ag nanoparticles sheets by cross-linking
	structure using alkanedithiol
	Noboru Saito (Kyushu University, Japan)

D-P07	Polyelectrolyte/carbon nanotube composite microcapsules and drug release triggered by laser irradiation
	Haruyuki Saito (Meiji University, Japan)
D-P08	Theoretical study on application of peptide nanoring to chiral recognition of amino acids
2 2 0 0	Jo Takeuchi (Waseda University, Japan)
D-P09	A redox-controllable molecular switch based on weak recognition of BPX26C6 at a diphenylurea
2107	station
	Jia-Cheng Chang (National Taiwan University, Taiwan)
D-P10	Anionic binding induced sol-gel transition and fluorescence in organgels of glycopeptide gelator
2 - 10	<u>Wen-Shiuan Wang</u> (National Synchrotron Radiation Research Center, Taiwan)
D-P11	Light induced rectification property using hydro gel on amorphous silicon film
	<u>Yutaka Tsujiuchi</u> (Akita University, Japan)
D-P12	Electronic structure of chlorophyll-a solution observed by photoelectronic yield spectroscopy
	Yuki Takeda (Chiba University, Japan)
D-P13	Development of single-walled carbon nanotubes-based composites from an aqueous solution containing
	peptide aptamer below the critical micelle concentration
	Zha Li (RIKEN, Japan)
D-P14	Tolerance of biomolecular recognition ability of RecA proteins against hybrids of DNA and
	single-walled carbon nanotubes
	Shusuke Oura (Tokyo University of Science, Japan)
D-P15	Regulation of adsorption of DNA and protein molecules on single-walled carbon nanotubes
	Yu Ishibashi (Tokyo University of Science, Japan)
D-P16	Mechanism of amperometric biosensor with electronically type-controlled carbon nanotube
	Hiroki Hidaka (Shibaura Institute of Technology, Japan)
D-P17	Electrochemical biosensor with electronically type-controlled carbon nanotube and glucose
	dehydrogenase
	Yuki Inoue (Shibaura Institute of Technology, Japan)
D-P18	Amperometric biosensor with nanocarbon and electron transfer mediator for lower detection potential
	Hajime Furutaka (Shibaura Institute of Technology, Japan)
D-P19	Molecularly imprinted electrochemical sensing of kynurenic acid in urine
	<u>Yu-Chia Chang</u> (I-Shou University, Taiwan)
D-P20	Electrochemical sensing of protein secreted by Escherichia coli via the epitope imprinting of peptide on
	molecularly imprinted poly(ethylene-co-vinyl alcohol) coated electrode
	Chun-Lin Liao (I-Shou University, Taiwan)
D-P21	Imaging of biointerface by use of metal nanoparticle films and their cytotoxicity test
	Shihomi Masuda (Kyushu University, Japan)
D-P22	Fluorescence imaging of cells on the plasmonic dish integrally molded
	Keiko Tawa (Kwansei Gakuin University, Japan)
D-P23	Live-cell, label free identification of excitatory-inhibitory neurons on micropatterned surfaces
	Sho Kono (Waseda University, Japan)
D-P24	Micro cell isolation column for allergic diagnosis
	Koichiro Kobayashi (Kyusyu Institute of Technology, Japan)
D-P25	Collecting biological samples for accurate optical absorption spectroscopy
D DA	<u>Yuichiro Matsuura</u> (Toyota Technological Institute, Japan)
D-P26	A low-voltage two-dimensional CMOS electrophoresis platform with 32×32 sample/hold cell array
	<u>Yuuki Yamaji</u> (Nagoya University, Japan)

- **D-P27** A 1.8V-input-range voltage-to-current converter using source degeneration for low-noise multimodal CMOS biosensor array <u>Keita Muto</u> (Nagoya University, Japan)
- **D-P28** Non-optical frequency-shift based testing of electrode formation using LC-VCO for high-reliability CMOS biosensor array

Kiichi Niitsu (Nagoya University, Japan)

- **D-P29** Implantable imaging device for brain functional imaging system using flavoprotein fluorescence <u>Yoshinori Sunaga</u> (Nara Institute of Science and Technology, Japan)
- **D-P30** Facile fabrication of electrochemical biosensor via self-assembled monolayer on single crystalline Au nanoplate

Kkochchorong Park (KAIST, Korea)

Session E (Energy Harvesting)

E-P01	Bio-analytic system based on organic photovoltaics
	Soonmin Seo (Gachon University, Korea)
E-P02	Synthesis of fullerene attached thiophene-selenophene block copolymers for single-component organic
	solar cells
	Peihong Chen (The University of Tokyo, Japan)
E-P03	Impedance analysis of carrier behavior in organic photovoltaics
	Tomohiro Mayumi (The University of Tokyo, Japan)
E-P04	Small molecule tandem solar cell using all-solution process
	Quang-Duy Dao (Osaka University, Japan)
E-P05	Charge carrier transport in PTB7:PC71BM polymer:fullerene organic solar cells of varying active layer
	composition
	Takuya Sugiyama (Osaka Prefecture University, Japan)
E-P06	Complete material/device design of thermoelectric fabrics using carbon nanotube fibers with partial
	n-type doping
	Mitsuhiro Ito (Nara Institute of Science and Technology, Japan)
E-P07	Effect of PbI ₂ precursor crystallization control upon organometal hybrid CH ₃ NH ₃ PbI ₃ perovskite solar
	cells
	Bing long Lei (Aichi Institute of Technology, Japan)
E-P08	Dependence of droplet residence time on photovoltaic characteristics by electrospray deposition
	Asuki Toda (Saitama Uniersity, Japan)
E-P09	Semitransparent organic solar cells using the carbon nanotube sheet electrode fabricated under
	atmospheric pressure
	Naoya Urakawa (Kinki University, Japan)
E-P10	Determination of hole drift mobility in organic solar cells based on a low-bandgap polymer by
	modulation spectroscopy
	Takashi Kobayashi (Osaka Prefecture University, Japan)
E-P11	Irregularly large Seebeck coefficients and their temperature dependence observed in pure organic
	semiconducting materials
	Ryo Abe (Nara Institute of Science and Technology, Japan)
E-P12	Fabrication of photo cathode and anode based on p- and n-type oxide semiconductors for high voltage
	tandem dye sensitized solar cells
	Yuki Mogi (Chiba University, Japan)

- E-P13 Simultaneous increases in Seebeck coefficient and electrical conductivity of single wall carbon nanotube by addition of ionic liquid Shohei Horike (Kobe University, Japan)
- E-P14 Fabrication and characterization of perovskite-type photovoltaic devices <u>Takeo Oku</u> (The University of Shiga Prefecture, Japan)
- **E-P15** Multilayered MoS₂ nanoflakes bound to carbon nanotubes as electron acceptors in bulk heterojunction inverted organicsolar cells

Toshihiro Shimada (Hokkaido University, Japan)

- E-P16 Preparation of chlorophyll-imprinted poly(ethylene-co-vinyl alcohol) coated anode for biofuel cells Ching Ping Shih (National University of Kaohsiung, Taiwan)
- E-P17 Enhanced thermopower of single-walled carbon nanotubes by loading into ionic liquid-derived polymers

Motohiro Nakano (Nara Institute of Science, Japan)

E-P18 High efficient and highly stable solar cells based on thiazolothiazole and naphthobisthiadiazole copolymers

Masahiko Saito (Hiroshima University, Japan)

 E-P19 Depleted-heterojunction solar cell based on PbS colloidal quantum dot – Device performance depending on the surface treatments – <u>Naoya Tsujii</u> (Kwansei Gakuin University, Japan)