

The program current as of 8/6.

Room P

Poster Presentation

Date		Booth No.		Booth No.								
				001	002	003	004	005	123	124	
12 Wed.	1P	a	9: 50~10: 00	Mounting Time								
			10: 00~10: 20	Mounting Time								
			10: 20~11: 00	Presentation	Presentation	Presentation	Presentation	Presentation	Presentation	Presentation	Presentation	Presentation
			11: 00~11: 40	Presentation	Presentation	Presentation	Presentation	Presentation	Presentation	Presentation	Presentation	Presentation
			11: 40~11: 50	Mounting Time								
			12: 50~13: 00	Mounting Time								
13 Thu.	2P	c	13: 00~13: 20	Mounting Time								
			13: 20~14: 00	Presentation	Presentation	Presentation	Presentation	Presentation	Presentation	Presentation	Presentation	
			14: 00~14: 40	Presentation	Presentation	Presentation	Presentation	Presentation	Presentation	Presentation	Presentation	
			14: 40~14: 50	Mounting Time								
14 Fri.	3P	e	14: 50~15: 00	Mounting Time								
			15: 00~15: 20	Mounting Time								
			15: 20~16: 00	Presentation	Presentation	Presentation	Presentation	Presentation	Presentation	Presentation	Presentation	
			16: 00~16: 40	Presentation	Presentation	Presentation	Presentation	Presentation	Presentation	Presentation	Presentation	
			16: 40~16: 50	Mounting Time								
			16: 40~16: 50	Mounting Time								

Presentation Time
 Mounting Time

Display Time
 Removing Time

Entrance Hall, Frontier Research in Applied Sciences Building

Wed. Sep 12

Presentation Time

<a = 10:20~11:00>

<b = 11:00~11:40>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 1Pa001 Radical Copolymerization of Various Cinnamic Acid Derivatives with Phenolic Hydroxyl Groups
Shizuka Sugihara, Hisaaki Takeshima, Mineto Uchiyama, Kotaro Satoh, Masami Kamigaito
- 1Pb002 1:2 Radical Copolymerization of Sabinene via Successive Ring-Opening, Monomer Addition, and Ring-Closing Mechanism
Taku ARITSU, Tomonari NAGAI, Takenori NISHIDA, Mineto UCHIYAMA, Kotaro SATOH, Masami KAMIGAITO
- 1Pa003 Living/Controlled Radical Copolymerization of Naturally Occurring Valencene and Common Vinyl Monomers
Hiroaki Hashimoto, Hisaaki Takeshima, Mineto Uchiyama, Kotaro SATOH, Masami KAMIGAITO
- 1Pb004 Copolymerization of Dibenzofulvene with Methacrylates and Acrylates Leading to pi-Stacked Copolymers
Jiyue Luo, Yue Wang, Tamaki Nakano
- 1Pa005 Synthesis of Macromolecular Ligand through Radical Polymerization of 5-Vinyl-2,2'-bipyridine and Its Application for Catalytic Reactions
Soma Kasai, Yue Wang, Tamaki Nakano
- 1Pb006 Synthesis an Antioxidant Vinyl Polymer Bearing Accumulated Diphenylamine Moieties in the Side-chain
Shunta Asada, Yue Wang, Tamaki Nakano

- 1Pa007 Simultaneous Cationic/PET-RAFT Copolymerization Combining Photoredox Catalyst and Lewis Acids
Zhihong SUN, Nagisa ITO, Mineto UCHIYAMA, Kotaro SATOH, Masami KAMIGAITO, Jiangtao XU, Cyrille BOYER
- 1Pb008 1,5-Hydrogen-Transfer Radical Polymerization for Synthesis of Sequence-Regulated Vinyl Polymers
Misaki Goto, Masato Miyajima, Mineto Uchiyama, Kotaro Satoh, Masami Kamigaito
- 1Pa009 Block Copolymers Carrying Sequence-Defined Oligopeptide at the Junction
Tomofumi Morishita, Takaya Terashima, Makoto Ouchi
- 1Pb010 Synthesis of ion-conductive polymers using deep eutectics
Keiko Ajino, Kazuhiro Nakabayashi, Hideharu Mori
- 1Pa011 Precision synthesis of polymeric α -amino phosphate esters
Yamato Okura, Ryohei Kakuchi
- 1Pb012 Syntheses of streptomyces-derived monomers and fully-bio-based polybenzimidazoles with ultrahigh thermal resistance
Xianzhu Zhong, Mohammad Asif Ali, Kenji Takada, Tatsuo Kaneko
- 1Pa013 RAFT Polymerization Using Radical-Type Mechanochromophore as a Chain Transfer Agent
Moeko Yanagisawa, Daisuke Aoki, Hideyuki Otsuka
- 1Pb014 Effect of Ring Structures on Thermal, Mechanical, and Optical Properties of N-Substituted Maleimide Copolymer Films
Soichiro Nagase, Akikazu Matsumoto
- 1Pa015 Radical Polymerization of Various Functional Vinyl Ethers
Taka-aki Kono, Shinji Sugihara, Tsuyoshi Takayama, Taiga Yamagishi, Yasushi Maeda
- 1Pb016 Effects of alpha-Substituents of alpha-(Aminomethyl)acrylates on copolymerization with NIPAM
Ryoma ITO, Tomonari YOKOYAMA, Daisuke NAKAGAWA, Kohei SHIMIZU, Sonoe SEKI, Shigeki HABAUE
- 1Pa017 ESR Observation of Radical Polymerizations of Acrylates with Bulky Side Groups
Kentaro Iwata, Atsushi Kajiwara
- 1Pa019 Direct ESR Observation of Radical Polymerizations of Methacrylates with Various Bulky Side Groups
Mayu Ichimura, Atsushi Kajiwara
- 1Pb020 Synthesis of micro gels by microfluidic device and its application to gel automaton
Masanari Nishi, Nobuyoshi Miyamoto, Ibuki Kawamata

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 1Pb022 Interface-mediated self-assembly of donor-acceptor semiconducting polymers in solution thin films: Molecular dynamics simulation study
makoto yoneya, satoshi matsuoaka, jun'-ya tutsumi, tatsuo hasegawa
- 1Pa023 Number density distribution of polymers and colloidal particles near a substrate in their mixed solution
Satoshi Furukawa, Ken-ichi Amano, Naoya Nishi, Tetsuo Sakka
- 1Pb024 Analysis of Interfacial Properties of Polymer Thin Films on Water
Masayuki Saito, Norifumi Yamada, Kohzo Ito, Hideaki Yokoyama
- 1Pa025 Depth-resolved analysis of phase-separated structure in an elastomer thin films of ABA-type triblock copolymer utilizing X-ray and neutron beam
Eri Miura, Katsuhiko Yamamoto

- 1Pb026 Effect of Gel Plasticization on Preparation of Anisotropic Polysaccharide Composite Films by Roll Press Techniques
Masahiro Sakaguchi, Yusuke Yataka, Kazutoshi Iijima, Mineo Hashizume
- 1Pa027 Structure of Multi-Component Polymer Thin Film as Revealed by Grazing-Incidence Small Angle X-ray Scattering Utilizing Anomalous Dispersion
Hiroki Hamamoto, Katsuhiko Yamamoto
- 1Pb028 AFM observation of extended- / folded-chain crystallization in a poly(lactic acid) mixed monolayer
Kazuya Someya, Kenta Iwashima, Jiro Kumaki
- 1Pa029 Observation of formation behavior of PMMA stereocomplex from isolated chains
Daiki Kato, Ryo Kageyama, Jiro Kumaki
- 1Pb030 Preparation of a Si(111) atomically flat substrate via a wet process and evaluation as an AFM substrate for observations of polymer chain structures
Yuki Sasahara, Yuya Miyake, Jiro Kumaki
- 1Pa031 Fabrication of a PMMA molecularly flat substrate by thermal nanoimprinting and AFM observation of PMMA chains deposited on it
Ryota Umetsu, Jiro Kumaki
- 1Pb032 Hierarchical phase separation of poly(ethyl methacrylate) / poly(octyl acrylate) blend and block copolymer monolayer
Mitsuki Harada, Atsushi Watanabe, Jiro Kumaki

Foyer, Frontier Research in Applied Sciences Building

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 1Pa033 Structures and properties of zwitterionic dynamic polymer brush
Kazuho Miyajima, Norifumi Yamada, Hideaki Yokoyama, Kohzo Ito
- 1Pb034 Glass transition phenomena of miscible polymer blends observed using nanorheological atomic force microscopy
Masaru Arai, Xiaobin Liang, Ken Nakajima
- 1Pa035 Glass transition and interfacial dynamics in stacked thin polymer films
Megumi Ooe, Kohei Suzuki, Koji Fukao, Koichiro Sadakane, Norifumi L. Yamada
- 1Pb036 Interfacial Analysis of Dynamic Polymer Brush: Cooperativity with Inclusion Complex Formation
Miharu Nakamura, Kanta Yanagi, Norifumi Yamada, Kohzo Ito, Hideaki Yokoyama
- 1Pa037 Observation of the Molecular Behavior at the Polypropylene/Liquid Interfaces by using Sum-Frequency Generation Vibrational Spectroscopy
Tomoya Sato, Takayuki Miyamae, Haruhisa Akiyama, Shin Horiuchi
- 1Pb038 Study of the method for evaluating the mechanical properties of polymeric materials using AFM and MD
Ryohei Hosoya, Ken Nakajima
- 1Pa039 Surface structure of hydrogel measured by novel polymer network direct observation method
Ryuji Kiyama, Takayuki Nonoyama, Tasuku Nakajima, takayuki Kurokawa, JianPing Gong
- 1Pb040 Morphological control of patterned polymer brushes by crosslinking
Kenta Yamaki, Nakagawa Shintaro, Naoko Yoshie
- 1Pa041 Fabrication of a Face-on Oriented Thin Film of Functionalized Organic

Materials Using a Low-Temperature Deposition Technique
Nobutaka Shioya, Takafumi Shimoaka, Takeshi Hasegawa

- 1Pb042 The monodispersity of micelles composed of PEG attached surfactants
Hayata Matsumoto, Shota Fujii, Rintaro Takahashi, Kazuo Sakurai
- 1Pa043 Study of Thermoplastic Vulcanizates by Nano-palpatation AFM
Mishael Eleosca Gunawan, Xiaobin Liang, Ken Nakajima
- 1Pb044 pH dependence of a micelle formed from a triblock terpolymer
Shotaro Miwa, Rintaro Takahashi, Carsten Rossel, Sakiko Matsumoto, Felix H. Schacher, Kazuo Sakurai
- 1Pa045 Molecular Mechanism of Interfacial Adhesion between Epoxy Resin/graphite and h-BN Surface
Yasuhiro Kitamura, Yuta Tsuji, Masao Someya, Toshihiko Takano, Michio Yaginuma, Kohei Nakanishi, Kazunari Yoshizawa
- 1Pb046 Measurement of gas diffusivity in rubbery polymer using NMR
Haruka Matsushita, Hiroaki Yoshimizu

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 1Pb048 The optimization of light waveguide for visually recognizing stress with two dyes series polymer optical fiber.
Chie Hirose, Rei Furukawa
- 1Pa049 Development of Electrochromic Device consisting of Ferrocene- and Viologen-Ionic Liquids
Kazuaki Uranaka, Hironobu Tahara, Takamasa Sagara, Hiroto Murakami
- 1Pb050 Formation of supramolecular polymer using halogen bond and photochemical behavior
Tetsuro Kozaki, Risa Kanda, Shigeru Takahara, Tatsuo Kaiho
- 1Pa051 Evaluation of Charge Trapping Mechanism on Organic Photorefractive Polymers
Yuki Tanaka, Kenji Kinashi, Wataru Sakai, Naoto Tsutsumi
- 1Pb052 Synthesis of azobenzene main chain type polymer bearing chiral substituent
Masashi Otaki, Hiromasa Goto
- 1Pa053 Syntheses and properties of narrow-bandgap polymers (22) Synthesis and evaluation of a narrow bandgap polymer applicable to organic thin film solar cell
Taisuke Karasuda, Haoxuan GUO, Hiroyuki Aota
- 1Pb054 Syntheses and properties of narrow-bandgap polymers(23) Syntheses of narrow bandgap polymers having reactive groups for crosslinking
Yusuke Imai, Haoxuan GUO, Hiroyuki Aota
- 1Pa055 Step- π -conjugated polymers (50) Synthesis and photochemical behavior of electron transfer of amphiphilic A, B-block type macromolecular wire with energy level difference.
Sora Hirata, Haoxuan Guo, Hiroyuki Aota
- 1Pb056 Sep- π -conjugated polymers (51) Synthesis of benzene type amphiphilic macromolecular wire for long-lived charge separation state and photochemical behavior.
Misa Nishimura, Haoxuan GUO, Hiroyuki Aota
- 1Pa057 Sep- π -conjugated polymers (52) Synthesis of A,B-block type amphiphilic polymers by using pseudo-living addition-condensation polymerization
Daisuke Kitayama, Haoxuan GUO, Hiroyuki Aota
- 1Pb058 Step- π -conjugated polymers (53) Synthesis of A,B-block type amphiphilic macromolecular wire with second donor.

Kota Tanaka,Haoxuan GUO,Hiroyuki Aota

- 1Pa059 step- π -conjugated polymers (54) Synthesis and performance evaluation of macromolecular wire with a donor and acceptor at the terminal.
Koki Iwamura,Haoxuan GUO,Hiroyuki Aota
- 1Pb060 Step- π -conjugated polymers (55) Synthesis of macromolecular wire having microscopically different polarity which is able to combine with Pt
Kaho Matsumura,Haoxuan GUO,Hiroyuki Aota
- 1Pa061 Step- π -conjugated polymers (56) Synthesis and evaluation of polymer with photosensitizer for multi-step electron transfer
Takayuki Kasugai,Haoxuan GUO,Hiroyuki Aota
- 1Pb062 Step- π -conjugated polymers (57) Attempt to synthesize high density charge storage polymer capable of bonding with gold.
Shingo Asai,Kota Maruyama,Haoxuan GUO,Hiroyuki Aota
- 1Pa063 Step- π -conjugated polymers (58)Synthesis and properties of macromolecular wire with porphyrin unit
Arata Oyama,Haoxuan GUO,Hiroyuki Aota
- 1Pb064 Step- π -conjugated polymers (59) Estimation of rate constant of electron transfer in macromolecular wire
Haoxuan GUO,Keisuke YOSHIDA,Hiroyuki AOTA
- 1Pb066 Investigation of properties on kinetic hydrate inhibitor by the substituents at N-position of poly(N-vinylamide derivatives)
Yumi Miyaji,Ryo Kawatani,Jaeyeong Choi,Hiroharu Ajiro
- 1Pa067 Molecular interaction between fiber/polymers and low-molecular weight compounds 30. Difference in adsorption characteristics of various kinds of nylon.
Aya Inada,Hitoshi Kanazawa
- 1Pb068 Stereoselective electrochemical reductions by using optically active thermoresponsive polymer-grafted carbon fiber electrodes consisting of chiral amino alcohol derivatives
Takuya Shoji,Ishifune Manabu
- 1Pa069 Enantioselective substrates capturing using the optically active poly(acryloylaminoalcohol)s-grafted activated carbon fiber
Kenichiro Tahara,Manabu Ishifune
- 1Pb070 Diels-Alder reaction in the hydrophobic field generated by the optically active thermoresponsive polymers
Soki Miyakita,Manabu Ishihune
- 1Pa071 Decolorization of Phenolpolymers Using Reductants
Misaki Shigekawa,Yosuke Hayashi,Risa Yoshimura,Hiroyuki Tonami
- 1Pa073 CO₂ gas separation of polymer composite membrane incorporating CD/MOF obtained from different metal species
Hirohito YAMASAKI,Ayana TANIGAWA,Sayaka YAMADA,Syoichi AIDA,Hidetoshi KITA
- 1Pb074 Gas Separation Properties in Polyimide Membranes with Dual Crosslinking Surface Network Layer
Ryosui Iwasa,Takahiro Suizu,Haruka Yamaji,Tetsuro Yoshioka,Kazukiyo Nagai
- 1Pa075 Effects of High Pressure Carbon dioxide on the Gas Permeability, Solubility and Diffusivity of Polyimide Membranes Containing Ionic Liquid
Tetsuro Yoshioka,Ryosui Iwasa,Hideaki Sawa,Ryohei Shindo,Kazukiyo Nagai
- 1Pb076 Synthesis and Separation Characteristics of Silicone / Acrylamide Copolymer
Akihiro Kedo,Keisuke Ikeda,Ren Hamada,Wataru Kawasoko,Kazukiyo Nagai

- 1Pa077 Development and Structural Control of Liquid-Crystalline Nanostructured Virus Filtration Membranes
Kazuma Hamaguchi, Daniel Kuo, Miaomiao Liu, Takeshi Sakamoto, Hiroyuki Katayama, Takashi Kato
- 1Pb078 Novel polybenzimidazole linked microporous polymers for carbon dioxide capture materials
Iku Utsunomiya, Makoto Miyasaka
- 1Pa079 Gas Permeability Selectivity of Heat-treated Polyimide Membrane with Modification by VUV Irradiation
Shuhei Shimoda, Masahiro Miyazaki, Ryosui Iwasa, Takahiro Suizu, Kazukiyo Nagai
- 1Pb080 Water Vapor Permeability of Crosslinked Polymer Membrane Derived from Cinnamic Acid
Jun Utsumi, Sumito Nagahama, Tomoya Tamaki, Ryosui Iwasa, Kazukiyo Nagai
- 1Pa081 Synthesis and Membrane Properties of ABA-type Triblock Copolymers Derived from Hydrophilic Polymer and Polyimide
Soichiro Kobayashi, Tsubasa Ito, Ryosui Iwasa, Yohei Sasago, Kazukiyo Nagai
- 1Pb082 Impedance spectroscopy of polyamide reverse osmosis membranes immersed in electrolyte solutions and analysis of their structure
Atsushi Tanaka, Hirosuke Tatsumi, Mutsumi Kimura
- 1Pa083 Preparation and gas transport properties of hyperbranched polybenzoxazole-silica hybrid membranes
Azumi Saito, Tomoyuki Suzuki
- 1Pb084 Thermophysical Properties of Biodegradable Poly(glycolic acid) and Poly(dioxanone)
Keito Tabata, Shuhei Suzuki, Yuntaek Choi, Meigin Sho, Kazukiyo Nagai
- 1Pa085 Water Vapor Sorption Characteristics of Water Soluble Polysaccharide Membrane
Niina Shimanuki, Solhee Yoon, Miho Imai, Yukiko Moriizumi, Hajime Fukuda, Kazukiyo Nagai
- 1Pb086 Effect of Different Substituents on the Polysaccharide with Water Vapor Sorption Characteristics
Solhee Yoon, Miho Imai, Niina Shimanuki, Yukiko Moriizumi, Hajime Fukuda, Kazukiyo Nagai
- 1Pa087 Helicity Control of Poly(biphenylacetylene)s Bearing an Optically Active Pendant and Their Applications as Chiral Stationary Phases for HPLC
Taro Mori, Daisuke Hirose, Tomoyuki Ikai, Eiji Yashima, Katsuhiko Maeda
- 1Pb088 Immobilization of macrocyclic Pd complex and its catalytic property
Riku Nameki, Kazuko Nakazono, Satoshi Uchida, Toshikazu Takata
- 1Pa089 Ultrafast water transport through self-assembled fluorinated nanotubes
Ryota Hirahara, Takeshi Konda, Kohei Sato, Yoshimitsu Itoh, Takuzo Aida
- 1Pb090 Molecular Recognition-induced Association Behavior of Multi-Responsive Copolymers with Cyclodextrin and Amphoteric Sites
Shintaro Kawano, Ichiro Maebata, Masahiro Muraoka, Hirofumi Sato, Motohiro Shizuma, Daisuke Ono
- 1Pa091 Synthesis of Polyacetylene Derivatives Bearing Phosphine Moieties and Their Application to Asymmetric Catalyst

Kazuya Inoue, Ryoma Ishidate, Katsuhiko Maeda, Eiji Yashima

- 1Pb092 Design and evaluation of sialic acid-recognizing polymer for highly efficient exosome electrophoresis analysis
Maki Shikatani, Akira Matsumoto, Yuji Miyahara, Tatsuro Goda, Miyuki Tabata, Horacio Cabral, Takuya Miyazaki, Takanori Ichiki, Takanori Akagi, Hiromi Kishita
- 1Pa093 Acid-Promoted Efficient Deracemization Reaction of a Spiroborate-Based Double-Stranded Helicate Bearing a Bisporphyrin Unit
Masaki ITO, Shinya YAMAMOTO, Naoki OUSAKA, Eiji YASHIMA
- 1Pb094 CO₂ Capture by Diamine Polymer Coatings for Super-hydrophilic Swelling Behavior
Yusuke Sahashi, Takeo Suga, Kenichi Oyaizu, Hiroyuki Nishide
- 1Pa095 Surface-functionalizing coating for a polypropylene using a modified polyolefin
Manami Hara, Keisuke Nishimori, Kitahata Shigeru, Takashi Nishino, Tatsuo Maruyama
- 1Pb096 Development of the organic-inorganic hybrid materials cross-linked with the sulfur-containing compounds
Suzuki Kazuko, Toshimi Fukui
- 1Pa097 Functionalization of a cellulose membrane surface by coating a fluorine-containing surfactant and a PEGylated polymer
Kazuki Kaneko, Manami Hara, Takashi Nishino, Tatsuo Maruyama
- 1Pb098 Dynamic wettability analysis of highly durable antifouling coating film surface
Maria Inukai, Takashi Isogai, Tsutomu Nemoto, Daisuke Ishii
- 1Pa099 Theoretical Study of the Effect of Curing Agent on Adhesion between Au and Epoxy Resin
taiki baba, hiroyuki murata, yuta tsuji, naoaki tsurumi, noriyuki masago, kazunari yoshizawa
- 1Pb100 Theoretical Study of the Influence of Temperature on Adhesion Phenomena
Hiroyuki Murata, Yuta Tsuji, Kazunari Yoshizawa
- 1Pa101 Curing of modified silicone resin-based adhesive on PET surface
Shigeki HABAUE, Takahiro TERASHI, Teppei TANAKA, Masao ISHINABE, Masato AKIMOTO
- 1Pb102 Modification of chemically stable polymeric materials 104. Improvement of the adhesion property of polymeric materials and different materials/metallic materials.
Hitoshi Kanazawa, Aya Inada
- 1Pa103 Poly (olefin sulfone)s possessing free-base generating groups in the side chain for application to photo-detachable adhesive
Hiroaki Horiuchi, Takeo Sasaki, Khoa Le
- 1Pb104 Surface structure analysis in new adhesive
Mizuho Ishii, Matsuba Go
- 1Pa105 Photoresponsive solid-liquid phase transition behavior of azobenzene-containing poly(meth)acrylates and their application to reworkable adhesives
Shotaro Ito, Haruhisa Akiyama, Hideyuki Kihara, Masaru Yoshida
- 1Pb106 Immobilization of Hydroxyapatite Nano Particles for Preparation of biocompatible sheet
Hirokazu Hayashi, Yayoi Yoshioka, Takeshi Suyama, Takashi Nishimura, Masaki Kimoto, Toru Uemukai, Yasumichi Kogai
- 1Pa107 Synthesis and surface properties of bottlebrush polymers consisting of monomer unit having long alkyl chain

Nobuo Murase, Kayo Terada, Tsuyoshi Ando, Shota Shibutani, Yoshito Tanaka, Takuma Kawabe

- 1Pb108 Stimuli-responsive surface based on caged catechol moiety
Saki Irie, Michinari Kohri, Tatsuo Taniguchi, Keiki Kishikawa
- 1Pa109 Adsorption and the surface properties of polypropylene film with alkylated poly(arbutin)
Ayaka Seto, Hisayoshi Kofujita, Yuji Shibasaki, Yoshiyuki Oishi
- 1Pb110 Surface assembly behavior of poly(arbutin) and the antibacterial property
Rika Kajiwara, Hisayoshi Kofujita, Yoshiyuki Oishi, Yuji Shibasaki
- 1Pa111 Fabrication and Control of Wettability of Channel Imitating Structures with Ligia exotica
Tsubasa KASHIMA, Koki KAWAI, Daisuke ISHII
- 1Pb112 Mechanism for increasing the liquid transport velocity of open-air channels imitated by Ligia exotica
Rikima KUWADA, Koji MUTO, Daisuke ISHI
- 1Pa113 A novel method to quantify an amount of azide groups on material surfaces using a clickable fluorescent compound
Rika Sakai, Hiroki Iguchi, Tatsuo Maruyama
- 1Pb114 Preparation of Novel Polyethylene composites with Phosphates Absorbable Surface
Shun Honda, Toru Hoshi, Takao Aoyagi
- 1Pa115 Preparation of a Cu-free clickable surface by simple polymer coating for immobilizing a biomolecule
Koki Miyahara, Rika Sakai, Tatsuo Maruyama
- 1Pb116 Influence of Alkyl Spacers on Formation of Porous Films using Star Polymers with Cyano-Biphenyl Moieties
Daiki Watanabe, Yumiko Naka
- 1Pa117 Molecular Design for Preparation of Porous Films using Breath-Figure Method
Yumiko Naka, Hiromu Takayama
- 1Pb118 Effect of Alkyl Chain on Porous Formability using Star-Typed Random Copolymer
Lisa Nagashima, Yumiko Naka
- 1Pa119 Synthesis of Comb-Type Polymers and Their Formability of Porous Films
Shuhe Hagino, Yumiko Naka
- 1Pb120 Development of triptycene-based molecular tripods that enable the vertical orientation of functional molecular units on solid surfaces
Saho Ohsawa, Hiromu Tago, Fumitaka Ishiwari, Yoshiaki Shoji, Tomofumi Tada, Shintaro Fujii, Manabu Kiguchi, Takanori Fukushima

Entrance Hall, Frontier Research in Applied Sciences Building

Presentation Time

<c = 13:20~14:00>

<d = 14:00~14:40>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 1Pc001 Synthesis of polyurethane and polyester bearing bipyridyl moieties in the main chain and their application as macromolecular ligands for catalysis
Tamaki Nakano, Akihiro Kimura, Jun-ya Hasegawa, Hassan Nageh, Yue Wang, Mayumi Nishida, Naofumi Naga
- 1Pd002 Synthesis of Polyurethanes through Polyaddition of 1,1'-Bi(2-naphthol) with Diisocyanatobenzene Derivatives

Heshuang Dai, Yue Wang, Tamaki Nakano

- 1Pc003 Synthesis and structure of poly(naphthalene-1,4-diyl) having axial chirality
Ka Son, Yue Wang, Tamaki Nakano
- 1Pd004 Polyaddition of functionalized (meth)acrylate dimers obtained by highly efficient N-heterocyclic carbene catalysis
Hiroki Kawai, Shin-ichi Matsuoka, Masato Suzuki
- 1Pc005 The Effect of Carbonyl Group on Intramolecular Pd(0) Catalyst Transfer in Nonstoichiometric Stille Coupling Polycondensation
Kosuke Terayama, Tomoya Higashihara
- 1Pd006 Synthesis of polyfluorene via Suzuki-Miyaura catalyst-transfer condensation polymerization of triolborate salt type monomer
Saburo Kobayashi, Takuya Isono, Takuya Yamamoto, Kenji Tajima, Toshifumi Satoh
- 1Pc007 ADMET Polymerization of Divinyl Compounds Bearing Rigid Skeleton Derived from myo-Inositol
Shogo Akiyama, Atsushi Sudo
- 1Pd008 Development of Triepoxide Bearing a Rigid Adamantane-like Core from myo-Inositol
Tomohiro Shimokawaji, Masumi Iwamoto, Atsushi Sudo
- 1Pc009 Synthesis of Polymers Bearing Rigid Diamantane-like Components from Naturally Occurring myo-Inositol
Kimikatsu Ikeya, Shusuke Okamoto, Atsushi Sudo
- 1Pd010 Synthesis of Ladder Polymers by Polycondensation of myo-Inositol-derived Tetrasilylethers with Diketones
Yu Matsumoto, Sonomi Kirimura, Atsushi Sudo
- 1Pc011 Synthesis of poly(lysine)s having ethylene glycol or propylene glycol in the side chain and their thermo-responsive properties
Ayaka Takashima, Shuhei Yamada, Takeshi Endo
- 1Pd012 Preparation of Whole Aromatic polypyromellitimide Particles
Tsubasa Hara, Shinji Watanabe, Tsuyoshi Namikoshi, Miki Murata, Yoshihito Kohari
- 1Pd014 Ring-opening polymerization of cyclic carbonates by bulky Lewis pairs and Lewis acid
Chaoyi Zhou, Ryo Tanaka, Yuushou Nakayama, Takeshi Shiono
- 1Pc015 Study of stereoselective polymerization of 2-alkoxytrimethylene carbonate derived from glycerol
Reiji Yoshimura, Nobuyoshi Nomura
- 1Pd016 Synthesis of random copolymer of lactide and trimethylenecarbonate and their DSC analysis
Tomohiro Fukuta, Nobuyoshi Nomura
- 1Pc017 Ring-opening metathesis polymerization of (oxa)norbornene lactones
Narumi Miyasako, Shin-ichi Matsuoka, Masato Suzuki
- 1Pd018 Synthesis of syndiotactic polystyrene by a titanium complex having a bulky aryloxy ligands
Takamasa Yamaguchi, Masamitsu Miya, Tomoyuki Toda, Katsuhiko Takenaka, Toshiki Watauchi, Tsukasa Matsuo
- 1Pc019 Copolymerization of vinyl monomers with a bulky polar substituent and α -olefins by diimine palladium catalysts.
Makoto Nakamura, Daisuke Takeuchi, Kohtaro Osakada
- 1Pc021 Polymerization of ester free trimethylene carbonate derivative with various metal catalysts
Hiroharu Ajiro, Nalinthip Chanthaset, Klaus Beckerle, Jun Okuda

- 1Pd022 Polymerization of Isoprene and Styrene with Group 4 ansa-Monocyclopentadienylamido Complexes
Kei Nishii, Ryota Sato
- 1Pc023 Relationship between catalyst performance and analysis result of Ti atom in MgCl₂ supported Ziegler-Natta catalyst by XPS
Masayoshi Saito, Hidetoshi Umebayashi, Toshihiko Sugano, Takeru Saito

Foyer, Frontier Research in Applied Sciences Building

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 1Pc033 Thermal denaturation and renaturation of xanthan in acid solution
Yasuhiro Matsuda, Jin Kawamoto, Erika Sakamoto, Shigeru Tasaka
- 1Pd034 Rheological properties of poly(vinyl alcohol) containing lithium salt
Warinda Marujiwat, Panitha Phulkerd, Masayuki Yamaguchi
- 1Pc035 Preparation of aggregate by amphiphilic random copolymers containing pendant phosphorylcholine groups
Maho Ohshio, Shin-ichi Yusa, Kazuhiko Ishihara
- 1Pd036 Thermo-responsive behavior of polymer having pendant fatty acid
Koki Matsubara, Shin-ichi Yusa
- 1Pc037 Modification of Teflon Powder by Fluorine Side-Chain Crystalline Block Copolymer
Yuta Ushijima, Ryoko Nakano, Hiroshi Sekiguchi, Shigeru Yao
- 1Pd038 Temperature Dependence of Partial Specific Volume of Polymers in Aqueous Solutions.
Yoh Tanaka, Kenichiro Chifu, Daichi Ida, Takenao Yoshizaki
- 1Pc039 A molecular dynamics study of the negative intrinsic viscosity
Kana Matsuoka, Jiro Shimada, Daichi Ida
- 1Pd040 Preparation and characterization of nano-droplets by using sulfobetaine type surfactants
Yuki Shinozaki, Noriyoshi Obara, Moriya Kikuchi, Seigou Kawaguchi
- 1Pc041 Design and Synthesis of Multivalent Macrocyclic Ionic Liquids
Taiga Ishij, Yoshimitu Itoh, Takuzo Aida
- 1Pd042 Temperature Dependence of the Second Virial Coefficient of Poly-N,N-diethylacrylamide in Aqueous Solution
Kenichiro Chifu, Yoh Tanaka, Masashi Osa, Daichi Ida, Takenao Yoshizaki
- 1Pc043 Molecular dynamics simulation of poly(vinylidene fluoride) in solution
Yoshiki Kato, Kazuyoshi Ueda, Hideo Horibe
- 1Pd044 Changes in the solution properties of poly(2-isopropyl-2-oxazoline) induced by the block copolymerization with poly(ethylene oxide)
Takeshi Kimura, Yukiteru Katsumoto, Yusuke Sanada, Takaaki Bekki
- 1Pc045 Structural Study of Micro-Hydrogel with X-ray and Light Scattering
Yusuke Sanada, Takamasa Yoshino, Natsumi Tsutsui, Yukiteru Katsumoto

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 1Pc047 Thermal controls of molecular organization states of diacetylenediamide crystals to switch on their photopolymerization activity
Shinji Yawata, Taiga Okuyama, Nobuyuki Tamaoki, Ken'ichi Aoki
- 1Pd048 Effect of chemical structures of diacetylenediamides on their crystal

structures and subsequent photopolymerization properties.
Taiga Okuyama, Shinji Yawata, Nobuyuki Tamaoki, Ken'ichi Aoki

- 1Pc049 Emitting Behaviors of Pyrene Derivatives Dispersed in Poly(vinyl acetate)
Hiroki Takahashi, Hideyuki Nakano
- 1Pd050 Chirality Induction to Star-shaped Oligomers Using Circularly Polarized Light
Zhaoming Zhang, Yue Wang, Xiao Hu, Xuehan He, Hui Chen, Tamaki Nakano
- 1Pc051 Energy collection approach for efficient near infrared-to-visible photon upconversion
Mika Kinoshita, Nobuhiro Yanai, Nobuo Kimizuka
- 1Pd052 Face-specific Properties of Macroscopic 3D Materials
Shotaro Hayashi, Toshio Koizumi
- 1Pc053 Photodimerization behaviors of novel styrylpyridine dendrimers and their application to the LC photo-aligned films.
Toshiki Tanaka, Syuntaro Nakata, Ken Okoshi, Ken'ichi Aoki
- 1Pd054 Fabrication of Fiber Materials based on Anthracenes and Their Optical Properties
Shohei Mikage, Shinichi Yamamoto, Toshio Koizumi, Shotaro Hayashi
- 1Pc055 Photoinduced Shape Changes of Mixed Molecular Glass Particles Containing Azobenzene-based Photochromic Amorphous Molecular Materials Fixed in Agar Gel
Hiroyasu Ukai, Ryota Ichikawa, Ayame Kitano, Hideyuki Nakano
- 1Pd056 Synthesis and Emitting Behaviors of a Novel Amorphous Molecular Material Possessing a Cyanostyrylbenzene Moiety
Kensuke Mori, Ryouhei Kaneko, Yoshimitu Sagara, Nobuyuki Tamaoki, Hideyuki Nakano
- 1Pd058 Fabrication of Polyaniline Electrochromic Devices using Ionic Liquid Semi-solid Electrolyte
Mizuki Osakabe, Atsusi Aoki
- 1Pc059 Optical property of poly(3,4-ethylenedioxythiophene) film having fine unevenness structures prepared in hydroxypropyl cellulose liquid crystal
Eguchi Naoto, Hiromasa Goto
- 1Pd060 Bowl-like hexagonal pyramidal microcrystals from chiral cyclophane molecule and circularly polarized luminescence properties
Osamu Oki, Hiroshi Yamagishi, Yasuhiro Morisaki, Ichiyo Hayashi, Tomoki Ogoshi, Yohei Yamamoto
- 1Pc061 Formation of fine patterns by application of reaction development patterning to novel alicyclic polyimides
Momoe Motomura, Yuichiro Tokoro, Toshiyuki Oyama, Daisuke Watanabe
- 1Pd062 Formation Behavior of Metal Sulfide Semiconductors Obtained from Metallomesogens Having Thiourea Ligands as a Reaction Precursor
Ikuya FUNAKOSHI, Shota KUROKOCHI, Akihiko KANAZAWA
- 1Pc065 The characterization of multi-layered nanopaper capacitor
Takaaki Kasuga, Hitomi Yagyu, Kojiro Uetani, Hiroataka Koga, Masaya Nogi
- 1Pd066 Development of sinter-free printable stretchable conductive inks
Takenori Nakanishi, Kento Yamagishi, Shinji Takeoka, Eiji Iwase, Hiroyasu Iwata, Toshinori Fujie
- 1Pc067 The Seebeck coefficient of poly(AAc-co-NIPAM)-quinhydrone Thermocells and its potential dependence on temperature
Keisuke Hayashi, Fan Gao, Teppei Yamada, Benshuai Guo, Yu

Hoshino, Yoshiko Miura, Nobuo Kimizuka

- 1Pd068 Internal noise characteristics of capacitor using low molecular liquid crystal / crystalline polymer mixture
Makoto Ohtomo, Ryota Maruyama, Naoki Asakawa
- 1Pc069 Control for Stochastic Resonance in Organic Transistor by Internal Noise
Yoshiharu Suzuki, Teruo Kanki, Hidekazu Tanaka, Naoki Asakawa
- 1Pd070 Electrical properties of polyurea thin films prepared by Vapor Deposition Polymerization.
Takaaki Tanaka, Akira Tsuji, Ryoussuke Matsubara, Atsushi Kubono
- 1Pc071 Effect of dynamics of pi-conjugated polymer on synapse-inspired field effect transistor
Riho Miyazaki, Yoshiharu Suzuki, Ayumi Matsuoka, Teruo Kamiyoshi, Hidekazu Tanaka, Naoki Asakawa
- 1Pd072 The effect of nucleating agents on the crystal structures and piezoelectric properties of poly(vinylidene fluoride) nanofiber mats
Hanako Asai, Kojiro Adachi, Koji Nakane, Shinichi Maeda, Takuma Nagahama, Yoshinori Kasai
- 1Pc073 Study on creation of low dielectric base by electroless copper plating based on polyolefin base material
Tomonori Uchino, Ryouko Nakano, Hiroshi Sekiguchi, Shigeru Yao
- 1Pd074 Synthesis of Polythiourea Derivatives and Their Block Copolymers as a Dielectric Material
Yui Hasegawa, Yang Feng, Takeo Suga, Kenichi Oyaizu, Hiroyuki Nishide
- 1Pc075 Synthesis and properties of methacrylate polymer having carbazolophane moiety
Kanae Miyanaga, Keita Tani, Kazushige Hori, Fumito Tani, Kenta Goto, Keita Sakakibara, Yoshinobu Tsujii
- 1Pd076 Synthesis and Characterization of Electrical Memory Properties of Polymers with Oxygen Assisted Conjugation
Brian Jiwon Ree, Takuya Isono, Toshifumi Satoh
- 1Pc077 Synthesis of poly(3,6-diaminocarbazole)s and their materials characterization
Fumihiko Aso, Hidehisa Kawashima, Masashi Kijima
- 1Pd078 Synthesis and physical properties of fused polyheteroacenes
Takaaki Hirano, Hitoshi Hanamura, Munenori Inoue, Koichiro Mikami
- 1Pc079 Development of copolymer capping agents for silver nanowires synthesis with high aspect ratio.
Kohei Terada, Jhon Cuya, Takatoshi Matsumoto, Shohei Ida, Kazumasa Suzuki, Hiroshi Miyamura, Jeyadevan Balachandran
- 1Pd080 Synthesis of poly(phenylacetylene)s bearing a galvinoxyl residue at 3-position and their magnetic property
Yushi Yamazaki, Masahiro Teraguchi, Toshiki Aoki, Takashi Kaneko
- 1Pc081 Magnetic interaction of sequential poly(9,10-anthryleneethynylene) copolymers with pendant galvinoxyl and phenoxyl residues
Toshiyasu Abe, Masahiro Teraguchi, Toshiki Aoki, Takashi Kaneko

E. POLYMERS AND ENVIRONMENT

- 1Pd086 Atmospheric pressure decomposition process of the Epoxy resin for CFRP by applying Low frequency oscillatory stress
Tomohiro Imai, Yasutaka Mori, Tomohiro Fukuda, Masahiko Takahiro
- 1Pc087 Mechanical properties dependence of shear stress of polystyrene thin films.

Natsumi Yamasaki,Phanthong Pachiya,Keitaro Yamashita,Yasuko Ueno,Ryoko Nakano,Hiroshi Sekiguchi,Shigeru Yao

- 1Pd088 Shear history dependence of physical properties of polypropylene thin film
Keitaro Yamashita,Natsumi Yamasaki,Phanthong Patchiya,Hiroshi Sekiguchi,Ryoko Nakano,Shigeru Yao
- 1Pc091 Study of impregnation of poly(L-lactide-*ran-delta*-valerolactone) copolymers with useful compounds using supercritical carbon dioxide
Chikara Tsutsumi,Yuuri Imai,Naoki Takahashi,Souta Manabe,Yuushou Nakayama,Takashi Shiono
- 1Pd092 Antibacterial of composite polyamide 4 controlled biodegradation
Akihiko Masui,Satoshi Ikawa,Atsuyoshi Nakayama,Naoko Yamano
- 1Pc093 Synthesis of polyester dendrimers having dianhydromannitol units with an alkylene diol spacer
Seiya Itokawa,Rie Suzuki,Yuzo Ishigaki,Keigo Aoi
- 1Pd094 Preparation and ion conductivity of electrolytes based on polycarbonate derived from sugar-derived diol and ethylene glycol units
Sayaka Watanabe,Yuzo Ishigaki,Keigo Aoi
- 1Pc095 Synthesis of Poly(lactic acid) Using Glucosamine Derivatiefs as Initiators and Their Thermal Properties
Ryo Kawatani,Kenta Yamatani,Hiroharu Ajiro
- 1Pd096 Development of Novel Amphiphilic Cellulose Derivatives by Solid-phase Reaction
Hideki Gotou,Masanori Takai,Kazuaki Sato,Satomi Nakazono,Kenji Takato
- 1Pc097 Preparation of epoxy resins from lignin solubilized by organic onium hydroxide aqueous solutions
Mao Nagatani,Hiromu Saito,Hiroyuki Ohno,Nobuhumi Nakamura
- 1Pd098 Screening of PHA synthase mutants for enhanced 3HHx fraction
Ayu Hiramatsu,Sho Furutate,Shoji Mizuno,Manami Hyakutake,Takeharu Tsuge
- 1Pc099 Functionalization of Terminally Reactive Polypropylene Synthesized by Precise Thermal Degradation
Atsushi Takamura,Daisuke Sasaki
- 1Pd100 Conformational analysis of poly(3-hydroxyvalerate)
Yota Watabe,Koyo Ono,Yuji Sasanuma
- 1Pc101 Structure-Property Relationships of Poly(cyclohexene carbonate)
Naofumi Yoshida,Daisuke Aoki,Yuji Sasanuma
- 1Pd102 Biosynthesis of polyhydroxyalkanoates containing branch side-chain monomer derived from amino acid
Mierzati Maierwufu,Shoji Mizuno,Takeharu Tsuge
- 1Pc103 Green polymers derived from non-food renewable resources
Shinji Kanehashi,Yuta Harada,Kenji Ogino,Tetsuo Miyakoshi
- 1Pd104 Synthesis and characterization of poly(α,β -unsaturated carboxylate) that are able to synthesize from biomass resources.
Yasumasa Takenaka,Hideki Abe
- 1Pc105 Synthesis and Evaluation of Cationic Cellulose (V) -Properties of Composite Membranes-
Ayane Hayashi,Yuko Takeoka,Masahiro Rikukawa,Masahiro Fujita
- 1Pd106 The effect of talc modified by using lactic acid on crystallization of polylactic acid
Satsuki Oohigashi,Joji Kadota,Akinori Okada,Hiroshi Hirano,Yasuyuki Agari

- 1Pc107 Preparation of pHEMA-Natural Rubber Composites
Bhumin Thanardna, Hiroshi Tamura, Tetsuya Furuike
- 1Pd108 Syntheses and mechanical properties of 4-aminocinnamic acid-based co-polyamide
Yasuyoshi Funahashi, Kenji Takada, Tatsuo Kaneko
- 1Pc109 Biosynthesis of polyester from CO₂ by using hydrogen-oxidizing-bacterium
Masahiro Yamamoto, Yuki Miyahara, Takeharu Tsuge
- 1Pd110 Development of self-healable elastomers from lignosulfonate via ionic interaction
Kazunori Ushimaru, Tomotake Morita, Tokuma Fukuoka
- 1Pc111 Syntheses and mechanical properties of cellulose nanofibers/PCL composites
Hotaka Taniguchi, Naruki Kurokawa, Atsushi Hotta
- 1Pd112 Synthesis of polyamide 4 with attached naphthyl group on polymer chain end and their properties
Norioki Kawasaki, Naoko Yamano, Atsuyoshi Nakayama
- 1Pc113 Oligo(Asp) hydrolysis by poly(Asp) hydrolase mutants
Tomohiro Hiraishi, Tamao Hisano, Hideki Abe, Mizuo Maeda
- 1Pc115 Development of transformation method for marine purple photosynthetic bacteria
Kumiko Morisaki, Mieko Higudhi, Keiji Numata
- 1Pc117 Study on New Pore-Forming Agent for PVDF Membranes
Hiroki Fukuta, Shingo Hikita, Hiroshi Niino, Eiko Okamoto
- 1Pd118 Preparation of mandelate type ionic liquids and their application to chiral Induction
Satoshi Kitaoka, Yuuhi Shimoda, Kaoru Nobuoka
- 1Pc119 Structural study of low crystalline cellulose obtained by temperature controlled milling machine
Kazuki Ohno, Ken Miyata, Tomonori Koda, Taichi Nishio, Akihiro Nishioka

Entrance Hall, Frontier Research in Applied Sciences Building

Presentation Time

<e = 15:20~16:00>

<f = 16:00~16:40>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 1Pe001 Synthesis of polyester by mean of polycondensation of difunctional esters via ester-ester exchange reaction
Takayoshi KATO, Yukiko OGAWA, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 1Pf002 Synthesis and Properties of Poly (arylene alkylene)s Having Aromatic Diimide Groups
Liyi Tan, Kohtaro Osakada, Daisuke Takeuchi
- 1Pe003 Synthesis and Characterization of Conjugated Polymers Consisting of Terphenyl and Biphenyl with Benzoxazaborine Units
Takuya Imamura, Kotona Tagi, Tomoyuki Ohishi, Akihiro Yokoyama
- 1Pf004 Synthetic Study of Macrocycles Using Curved Units with Benzoxazaborine Structure
Ryoichi Fukai, Tomoyuki Ohishi, Akihiro Yokoyama
- 1Pe005 Synthesis of fluorine-containing polyxylylenes with super thermostability by intermolecular coupling

Anna Shigaki, Taka-Aki Asoh, Hiroshi Uyama, Sensuke Ogoshi

- 1Pf006 Synthesis and Hydrolysis-Resistant Property of Polymer Having Linear Unit Composed of Benzene Ring with Two Oxazaborine Structure
Kaori Igarashi, Tomoyuki Ohishi, Akihiro Yokoyama
- 1Pe007 Synthesis, Characterization, and Electrochemical Properties of Tropolone-Formaldehyde Polymers by Addition Condensation Process
Ryo ICHINOKUCHI, Akihiko KANAZAWA
- 1Pf008 Synthesis and properties of poly(lactic acid) diols by direct polycondensation
Shu Ouchi, Masaki Yamamoto, Yoshiharu Kimura, Hideki Yamane, Kazunari Masutani
- 1Pe009 Structural study on a low molecular fraction of a polyketone prepared by direct polycondensation of an electron-rich aromatic compound and an alicyclic dicarboxylic acid
Hiroshi Matsutani, Youhei Ishikawa, Nanako Arima, Katsuya Maeyama, Hirotaka Minami
- 1Pf010 Preparation of novel engineering plastics based on phenolic resin derivatives
Makoto Higuchi, Hiroto Ishiduka, Sudai Aoki, Tsuyoshi Oka, Tadamasu Nemoto
- 1Pe011 Synthesis and Photoisomerization Behavior of Conjugated Polymer Bearing Azobenzene Moieties
Shinichi Iba, Takahiro Ishida, Fumio Sanda
- 1Pf012 Thermal and optical properties of poly(tetramethylsilarylenesiloxane) derivatives with oligothiophene based moiety.
Ibuki Nishizawa, Yuya Katayose, Ruri Okura, Yuzuki Gonmori, Tsukasa Ichikawa, Nobukatsu Nemoto
- 1Pf014 Synthesis of pi-conjugated poly(oxindolidene thienylene vinylene) by aldol condensation reaction
Shingo Sato, Tomoya Higashihara
- 1Pe015 Generation of Polyamides by Polymerization of monosubstituted acetylenes
Atsuki Shimomura, Yuzo Ishigaki, Shigeki Habaue
- 1Pf016 Synthesis of conductive polymer by electroreductive polymerization of carbon disulfide
Yoshimasa Matsumura, Bungo Ochiai
- 1Pe017 N-Heterocyclic Carbene Initiated Ring-Opening Polymerization of Caprolactones Containing Polymerizable Unit
Yosuke Oga, Akinori Takasu
- 1Pf018 Pd-catalyzed cross-coupling polycondensation of bis(propargyl carbonate)s with aryl diboronic acids.
Hironori Saito, Satoshi Miyahara, Shotaro Hayashi, Shin-ichi Yamamoto, Toshio Koizumi
- 1Pe019 Synthesis and Characterization of Novel pi-Conjugated Polymers by Electropolymerization of Troponoid Compounds
Kaito KIRASHA, Ryo ICHINOKUCHI, Akihiko KANAZAWA
- 1Pf020 Synthesis and Luminescence Property of Organometallic Complexes with Tropolone Ligands and Their Electropolymerization Behavior
Mitsuki KAWAMATA, Ryo ICHINOKUCHI, Akihiko KANAZAWA

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 1Pe023 Preparation of temperature-sensitive smart polymer materials having self-controlled glass transition temperature.
Naoya Tsugawa, Masayuki Yamaguchi
- 1Pf024 Analysis of Peculiar Small-Angle X-Ray Scattering Profiles from Low-

Contrast Block Copolymers at Around Room Temperature.

Kenichi Yoshimori, Katuhiro Yamamoto

- 1Pe025 Computer Simulation of Microphase-Separated Structures and Behavior of Phase Transitions of Block Copolymers with Slide-ring Junctions
Naoki Yamada, Tsutomu Furuya, Tsuyoshi Koga
- 1Pf026 Mechanical properties of nanofibrillated cellulose nanofiber / elastomer composites
Katsuya Shokyu, Takashi Miura, Toru Noguchi, Kenji Urayama
- 1Pe027 Development of High-Flow-Polycarbonate Using Polymer Blends.
Tatsuhiko Hiraoka, Misaki Hagi, Takumi Sako, Masayuki Yamaguchi
- 1Pf028 Mechanical properties of cellulose nanofiber reinforced rubber by Nano-palpation atomic force microscope
Yuki Okinaga, Makiko Ito, Xiaobin Liang, Toru Noguchi, Ken Nakajima
- 1Pe029 Evaluation of mechanical properties of CF / PP composite material + compatibilizer by electron beam irradiation
Ryui Umetani, Osamu Yoshimura, kiyoshi Uzawa, Takayuki Tsukegi
- 1Pf030 AFM nanomechanics on CNT-reinforced rubber under elongation
Makiko Ito, Yuuki Okinaga, Xiaobin Liang, Noguchi Toru, Ken Nakajima
- 1Pe031 Physical properties of reaction-induced polymer alloys by nano-palpation AFM
Koki Hara, Kiyoshi Miyafuji, Xiaobin Liang, Makiko Ito, Ken Nakajima
- 1Pf032 Toughening PLA by adding polyrotaxane
Wenshun Shi, Guan Li, Kazuaki Kato, Rina Maeda, Koichi Mayumi, Hideki Yokoyama, Kohzo Ito

Foyer, Frontier Research in Applied Sciences Building

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 1Pe035 Evaluation of physical properties and tacticity of polymers prepared by vapor-phase assisted surface polymerization (VASP).
Sayako Chijiwa, Haruo Nisida
- 1Pf036 The abnormal elution behavior of long branched polystyrene in SEC
Yoshinori Matsumoto, Moriya Kikuchi, Seigou Kawaguchi
- 1Pe037 Effects of chirality of side chains on helix formation of polymers
Kosuke Norimi, Tsutomu Furuya, Tsuyoshi Koga
- 1Pf038 Identification of Small Amount of Photoinitiator in UV-Cured Resin
Takashi Doi, Yoshihiro Amano, Akihiro Unno
- 1Pe039 Development of Raman microscope using enhancement of scattering and Application to Polymer Structure Analysis
Masaki Kobayashi, Yasushi Maeda, Shinji Sugihara
- 1Pf040 Structural analysis of poly(N-vinylpyrrolidone) using Pure Shift NMR
naoto ikekita, ken yoshida, tomohiro hirano, kouichi ute

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 1Pe043 Preparation and characterization of aromatic polyamide particles having reactive groups
Yayoi Yoshioka
- 1Pf044 One-dimensional self-assembly of a warped nanographene
Kenta Kato, Yasutomo Segawa, Lawrence, T. Scott, Kenichiro Itami

- 1Pe045 Fabrication and Application of Microphase Separation Film from Amphiphilic Triblock Copolymer with Liquid Crystalline Middle Block
Shingo Hadano, Kyohei Okumura, Yosuke Niko, Shigeru Watanabe
- 1Pf046 Fabrication and evaluation of nanosheet composed of thermo-responsive shape memory polymers
Natsumi Kusayanagi, Kenji Yarinome, Takuto Aoki, Atsushi Nakagawa, Hong Zhang, Yosuke Okamura
- 1Pe047 Optical property of salmon sperm DNA-based nanosheets constructed by a supramolecular approach
Rika IWAURA
- 1Pf048 Preparation of rigid polymer nanofiber and nanosheet by using crystallization from a dilute solution and its application.
Haruka Dodo, Ryota Yabune, Tetsuya Uchida
- 1Pe049 PPS nanofiber sheet prepared by carbon dioxide laser supersonic multi-drawing
Satoi Tsutsui, Akihiro Suzuki
- 1Pf050 Nylon 66 nanofiber prepared by improved carbon dioxide laser supersonic drawing apparatus
Takumi Fukasawa, Akihiro Suzuki
- 1Pe051 Dynamics study of Self-sorting supramolecular fiber by real time observation
Wataru Tanaka, Hajime Shigemitsu, Ryo Kubota, Itaru Hamachi
- 1Pf052 Preparation of nano-fibrillated bacterial cellulose with hydrophobic surface characteristics
Hiroyuki Kono, Taiki Uno, Haruto Tsujisaki, Ryota Kisimoto, Tokuo Matsushima, Kenji Tajima
- 1Pe053 Design of porous structures in gold nanoparticle-anchored cellulose paper for light-mediated thermal management
Yintong Huang, Kojiro Uetani, Masaya Nogi, Hirotaka Koga
- 1Pf054 Synthesis of Magnetic Nanoparticles with Triphenylimidazole Skeleton on the Surface
Naoki Osada, Takeru Iwamura
- 1Pe055 Properties of the Metal-Molecule Binding in Palladium Nanoparticles
Mina Mashiba, Hideyuki Nakanishi, Tomohisa Norisuye, Qui Tran-Cong-Miyata
- 1Pf056 A development of a novel optical tweezers using a semi-conductor and a metallic oxide nano-structures: Efficient optical trapping for polymer nanoparticles
Yuki Uenobo, Tatsuya Shoji, Ayaka Mototsuji, Sawa Komoto, Tatsuya Nagai, Linklater Denver, Juodkazis Saulius, Yasuyuki Tsuboi
- 1Pe057 Optical Manipulation of Poly (N-isopropylacrylamide) Labeled with a Fluorescent Probe on a Silicon Nanoneedles
Tatsuya Nagai, Tatsuya Shoji, Juodkazis Saulius, Yasuyuki Tsuboi
- 1Pf058 Self-assembly and Host Ability of Coordination Cages Bearing Anthracene-based Asymmetric Ligands
Takahiro Tsutsui, Shunsuke Kusaba, Michito Yoshizawa, Munetaka Akita
- 1Pe059 Efficient optical trapping of polystyrene nanoparticles with a silicon nanostructures surface
Shuhei Ogita, Tatsuya Shoji, Denver Linklater, Saulius Juodkazis, Fumiya Kato, Kei Murakoshi, Yasuyuki Tsuboi
- 1Pf060 Development of ultra-bright fluorescent nano-emulsions possessing bacterial recognition sites

Airi Saito,Rika Ochi,Shingo Hadano,Shigeru Watanabe,Yosuke Niko

- 1Pe061 Evaluation of up-conversion in dye-encapsulated liposomes
Hinano Minemura,Hideki Kawai

F. INDUSTRIAL POLYMERS AND TECHNOLOGY

- 1Pe065 Preparation of solid polymer electrolyte with poly(3-alkoxy thiophene-co-pyrrole) copolymer for lithium secondary battery
EUM YUL,HYUNJI LEE,JUNGHYUN PARK,NAMJU JO
- 1Pf066 Effect of rubber mechanical properties for hydrogen circulation diaphragm blower on gas conveyance efficiency
Ryo Hisatsune,Hirohada Fujiwara,Shin Nishimura
- 1Pe067 Evaluation of the hydrogen gas permeation in polymeric materials applying high-pressure gas permeability test
Hirohada Fujiwara,Hiroaki Ono,Shin Nishimura
- 1Pf068 State evaluation of hydrogen permeated in polymer materials exposed to high-pressure hydrogen by using solid state ¹H NMR
Hirohada Fujiwara,Hiroaki Ono,Shin Nishimura
- 1Pe069 Temperature dependency of internal damage morphology of the epoxy resin exposed to high-pressure hydrogen
Hiroaki Ono,Hirohada Fujiwara,Shin Nishimura
- 1Pf070 Influence of Crystallinity on Change of Higher-order Structure in Polyamide 11 Exposed to High-pressure Hydrogen Gas
Keiko OHYAMA,Fumitoshi KANEKO,Hirohada Fujiwara,Shin Nishimura
- 1Pe071 Novel Ethylene Destruction System Using Polymer Electrolyte Membrane
Taro Kimura,Toshihiro Urakawa,Morihiro Tsukazaki
- 1Pf072 Structural and rheological characterization of bacterial cellulose pellicles
Yukari Numata,Hiroyuki Kono,Akane Mori,Ryota Kishimoto,Kenji Tajima
- 1Pe073 Effect of milling condition under twin screw extruder on reducing crystallinity of rice starch
Komei Sato,Ken Miyata,Tomonori Koda,Taithi Nisio,Akihiro Nishioka
- 1Pf074 Modification of epoxy resins by in situ living radical polymerization method using alkylboranes as initiators
Yuri Kajihara,Toshiyuki Oyama
- 1Pe075 Analysis on thermal oxidation behavior of poly(phenylenesulfide)
YongHoon Kim
- 1Pf076 Photo-radical polymerization of acrylates triggered by 254 nm-monochromatic light irradiation
Masahiro Furutani,Takashi Ide,Shinobu Kinoshita,Raita Horiguchi,Ichiro Mori,Kazuhiro Sakai,Koji Arimitsu
- 1Pe077 Influence of Hot Runner System on Polyglycolic Acid Thick-walled Injection Molding
Yu Sato,Akihiko Nemoto,Takashi Kurose,Hiroshi Ito,Nobufumi Sato,Masaru Sato,Kotaku Saigusa
- 1Pf078 Rapid synthesis of spherical nano particles by using polyphenol and silane coupling agents
Satoru Dohshi,Shinya Mine,Yu Horiuchi,Masaya Matsuoka
- 1Pe079 Surface interaction between polymer and nano particle studied by two-dimensional disrelation mapping
Hideyuki Shinzawa,Junji Mizukado

- 1Pf080 Durability of cellulose nanofiber reinforced plastics under accelerated freeze-thaw cycling
Shuichiro Seno, Takeshi Mori, Takafumi Nomura, Masamitsu Yoshida, Tohru Yamagishi, Takashi Ohichi, Hiroshi Kani
- 1Pe081 Synthesis and Physical Properties of Polymeric Silane Coupling Agents Having Different Polymerizable Blocks
Tomomi Hachiken, Sakie Yamauchi, Kiyomi Fuchigami, Kosuke Kaneko, Tomonori Hanasaki
- 1Pf082 Fundamental study of Fluoropolymer/BN filled composites with highly thermal conductive
Takumi Otsoshi, Akira Ishigami, Takashi Kurose, Hiroshi Ito, Hirofumi Mukae, Masaji Komori, Hideki Kono
- 1Pe083 Mechanical property of poly(ϵ -caprolactone) composites with surface-modified cellulose nanofibers
Hiroki Ichimura, Naruki Kurokawa, Atsushi Hotta
- 1Pf084 Dynamic mechanical properties of composite of polar acrylic resin and cellulose nanofiber
Risa Yamamoto, Katsuhiko Yamamoto, Jun Takada
- 1Pe085 Preparation of polyurethane/imogolite modified with a catechol-terminated oligoester composites by in situ polymerization
Sayaka Obata, Mitsuhiro Shibata, Toshiaki Shimasaki, Naozumi Teramoto
- 1Pf086 Creation of helical carbon coil using with plant helical vessels and carbon fiber
Shota Hirokawa, Hiromasa Goto
- 1Pe087 Development of Superhydrophobic Porous Materials using an Inorganic Tetrapod Skeleton
Yoshihiro Yamauchi, Masanobu Naito
- 1Pf088 Development of block copolymer surface modifier for improving silica particle dispersibility in rubber material
Riku Kabeya, Katsuhiko Yamamoto
- 1Pe089 Continuous measurement of resin volume change in curing cycle of curable resins.
Hiroshi Hirano, Akira Kuriyama, Yasuyuki Agari, Joji Kadota, Akinori Okada
- 1Pf090 Surface modification of vinylon thin film bearing beta-cyclodextrin
Hirohito Yamasaki, Haruhi Minematsu, Tomotake Yano, Kentaro Toyosu

E. POLYMERS AND ENVIRONMENT

- 1Pf092 Biopolester with Phenyl Group biosynthesized by *P. putida*.
Yuki Tanaka, Takahiko Nakaoki
- 1Pe093 Inhibition of crystallization for PHBV-b-PHB-b-PHBV ternary block copolymer biosynthesized by *R. eutropha*
Tomo Komaeda, Takahiko Nakaoki
- 1Pf094 Synthesis and Properties of Sequence-Regulated Copoly(ester amide)s Composed of Dicarboxylic Acid, Diol and γ -Aminobutyric Acid.
Kazumasa Watanabe, Ryo Tanaka, Yuusyou Nakayama, Takeshi Shiono, Noriki Kawasaki, Naoko Yamano, Atsuyosi Nakayama
- 1Pe095 Bio-based amino acid polymers and their self-assembly phenomenon
Thawinda Kongprathet, Kenji Takada, Tatsuo Kaneko
- 1Pf096 Diels-Alder reaction behavior in conetworks composed of furan- and

maleimide-terminated 4-armed star shaped L-lactide and ϵ -caprolactone oligomers
Kaito Sugane, Toshiaki Shimasaki, Naozumi Teramoto, Mitsuhiro Shibata

- 1Pe097 Syntheses of Diketopiperazine-based Polyamides and Morphological Transformation of Their Particles
Hongrong YIN, Kenji TAKADA, Tatsuo KANEKO
- 1Pf098 The dissolution behaviour of chitosan in EMImBF₄
YOSHIKI TORII, Kothata Ditpon, Tetuya Huruike, Hiroshi Tamura
- 1Pe099 Research of lactic acid releasing mechanism during hydrolysing of novel modified PLA
Koki SHIBATA, Seishi YOSHIKAWA, Tsutaki KATAYAMA, Toshiki YAMADA
- 1Pf100 Thermal degradation behavior of bio-based polyurethane derived from vanillin
Koichiro Tachibana, Hideki Abe
- 1Pe101 Evaluation of phosphate adsorption performance of "Fe³⁺-(vinylon fiber-g-poly-4-vinyl pyridine)" in column method and structural analysis by SEM
Moeri Takada, Shota Nishimura, Keiji Yamashita
- 1Pf102 Correlation between adsorption ability and stimulus responsive expression of metal adsorbent imparted with stimulus responsiveness
Masumi Sakakibara, Kouki Kobayashi, Fumika Takashi, Keiji Yamashita
- 1Pe103 Optimization of a reaction condition for production of amphiphilic nano-fibrillated bacterial cellulose
Masato Uenishi, Ko Ishii, Tokuo Matsushima, Hiroyuki Kono, Takuya Isono, Takuya Yamamoto, Toshifumi Satoh, Kenji Tajima
- 1Pf104 Synthesis and modification of cinnamic acid-based bio-polyimide using alkali metal
Takuya Kobayashi, Sumant Dwivedi, Kenji Takada, Tatsuo Kaneko
- 1Pe105 Syntheses of soluble aromatic polyimides from 4-aminophenylalanine derivatives
Hiromasa Shinagawa, Kenji Takada, Tatsuo Kaneko
- 1Pf106 Synthesis and Thermal/mechanical Properties of Aromatic Polymers Derived from Chiral Cinnamic Acid Photo-dimers
Takumi Noda, Junya Okuda, Kenji Takada, Tatsuo Kaneko
- 1Pe107 Synthesis of poly(lactic acid)-grafted cellulose nanofiber by acid/base organocatalyst and its properties
Shinji Fujie, Joji Kadota, Akinori Okada, Hiroshi Hirano, Yasuyuki Agari
- 1Pf108 Characterization of biodegradable poly(ethylene carbonate)/poly(lactic acid) blends prepared by melt-quench method
Nur Azrini Binti RAMLEE, Yoichi TOMINAGA
- 1Pe109 Synthesis and adhesive properties of vegetable oil based network polymers by reversible Diels-Alder reaction
Yohtaro Inoue, Hideki Tachi
- 1Pf110 Synthesis of cellulose or chitin based flocculants for the removal of heavy metal ion
Sayaka Fujita, Rena Araya, Noya Kaizawa, Riku Sato, Ryota Kishimoto, Hiroyuki Kono, Nobuo Sakairi
- 1Pe111 Syntheses of Bend-type Polyureas Using 4-Aminocinnamate photodimers
Yuuki Kawashita, Kenji Takada, Tatsuo Kaneko
- 1Pf114 Analysis of internal structure of bamboo tissues and distribution behavior

of inorganic elements
Yasufumi Morita, Haruo Nishida

- 1Pe115 Development of Biomass-based Plastic with High Thermal Processability via Direct Transesterification of Lignocellulosic Biomass
Shiori Suzuki, Hernandez Stephanie, Yosuke Hamano, Naoki Wada, Kenji Takahashi
- 1Pf116 Lignin depolymerization using boron doped diamond electrode in tetrabutylphosphonium hydroxide aqueous solution.
Koji Asanuma, Tsuyoshi Ochiai, Hiroyuki Ohno, Nobuhumi Nakamura
- 1Pe117 Production of glucose from cellulose in hydrated ionic liquids
Anri Sato, Takashi Akiba, Hiroyuki Ohno, Nobuhumi Nakamura
- 1Pf118 Development of plastic composite materials using hydrothermally treated wood biomass
Kensuke Miyazaki, Masayuki Gomibuchi, Toshifumi Yamada, Takashi Yoshida
- 1Pe119 Precision polymerization and multi-component post-polymerization modification reactions of lignin-derived vinyl monomers
Shuhei Yamashita, Ryohei Kakuchi

Entrance Hall, Frontier Research in Applied Sciences Building

Thu. Sep 13

Presentation Time

<a = 10:20~11:00>

<b = 11:00~11:40>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 2Pa001 Direct arylation of common polymer with a diaryliodonium salt
Tadashi Tsukamoto, Toshikazu Takata
- 2Pb002 Modification of polymers by palladium-catalyzed direct arylation of the aromatic group
Seiichiro Yagi, Kazuko Nakazono, Satoshi Uchida, Toshikazu Takata
- 2Pa003 CO₂-fixation reaction of polymer bearing propargylamine using copper macrocycle catalysts.
Nam-Kyun Kim, Hiromitsu Sogawa, Toshikazu Takata
- 2Pb004 CO₂ Fixation into Propargylamine-containing Polymers
Felicia Dea Mulyadi, Nam Kyun Kim, Kazuko Nakazono, Satoshi Uchida, Toshikazu Takata
- 2Pa005 Efficient Synthesis of Diblock Copolymer using An Orthogonal Click Reagent
Ayumu Ishii, Toyokazu Tsutsuba, Toshikazu Takata
- 2Pb006 High efficient modification of NR with polypeptide-containing nitrile N-oxide
Tatsuhito Ikeda, Kazuko Nakazono, Satoshi Uchida, Toshikazu Takata
- 2Pa007 Development of method for the quantification of end-group modification by ¹⁹F NMR spectroscopy
Yukari Take, Makoto Obata
- 2Pb008 Synthesis of pH-Responsive Amphiphilic Block Copolymer via Post-polymerization Modification
Satoshi Masuda, Makoto Obata
- 2Pa009 Synthesis of poly(benzoimidazolium iodide) by nitrogen-quaternization in the imidazole moiety and its properties
Emi Funahashi, Kozo Matsumoto, Takeshi Endo
- 2Pb010 Synthesis of polycarbosilanes having sugar-derived structures and their

crosslinking with diisocyanate
Tatsuya Miyano,Kozo Matsumoto,Takeshi Endo

- 2Pa011 Development of Photo-crosslinking System Based on Visible Light-driven Reductive Coupling of Aldehydes Using Perylene as a Photoredox Catalyst
Shin-ichiro Yamamoto,Shusuke Okamoto,Atsushi Sudo
- 2Pb012 Crystallization-Induced Mechanoluminescence of Crystalline Polymers with Luminescent Mechanochromophore
Sota Kato,Daisuke Aoki,Naohiko Shimada,Atsushi Maruyama,Hideyuki Otsuka
- 2Pa013 Mechanoluminescent of organic-inorganic composites with tetraarylsuccinonitrile
Fumika Hoshino,Takahiro Kosuge,Daisuke Aoki,Hideyuki Otsuka
- 2Pb014 Influence of glass filler on the kinetic behavior of the thermal degradation of polyethylene
Shuto Yamada,Takaki Horikawa,Masahiro Tsuchiya,Nobuyoshi Koga
- 2Pa015 Kinetic behaviors on thermal and thermo-oxidative decomposition of chitosan
Tsuyoshi Ujiie,Shuto Yamada,Ryuya Yoshida,Masahiro Tsuchiya,Nobuyoshi Koga
- 2Pb016 The effect of Lewis acid additives on electrochemical polymer reaction of poly(3-alkylthiophene)s
Tomoyuki Kurioka,Hiroki Nishiyama,Ikuyoshi Tomita,Shinsuke Inagi
- 2Pa017 Side chain modification of poly(phenyl methacrylate) by transesterification using zinc art complex
Tomoki Hirata,Miyuki Oshimura,Tomohiro Hirano,Koichi Ute
- 2Pb018 Copolymer Synthesis by Transamidation of Poly(N-alkylacrylamide)s
Yui Hasegawa,Tomohiro Hirano,Miyuki Oshimura,Koichi Ute
- 2Pa019 Synthesis and Photoreactions of Networked Polymers Composed of Trifunctional Photolabile Crosslinkers
Kanji Suyama,Hideki Tachi

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 2Pa023 Molecular dynamics simulation of polymer crystallization with chirality/ polymorph selections
Takashi Yamamoto
- 2Pb024 The influence of high pressure hydrogen gas on the structure of crystalline polymers
Fumitoshi Kaneko,Keiko Ohyama,Hirotsada Fujiwara,Shin Nishimura
- 2Pa025 Melt Memory Effect in Polymer Crystallization
Akifumi Nabe,Masato Hashimoto,Susumu Fujiwara,Tomoko Mizuguchi
- 2Pb026 Growth mechanism of isotactic polypropylene crystal grown from ultrathin films
Ken TAGUCHI,Yohei NODA,Akihiko TODA
- 2Pa027 Molecular structure and mechanical properties of polyolefin films at cryogenic temperature
Isamu Terayama,Shinichi Kitade,Masaru Aoki,Motonori Tamada,Yoshihiro Yamazaki
- 2Pb028 Complicated phase transition of lattice structure observed in sphere-

forming block copolymer / homopolymer blends
Hideaki Takagi, Katsuhiko Yamamoto

- 2Pa029 Structure of nano-oriented crystals of P(VDF-TFE) in elongational crystallization
Kiyoka Okada, Toshiyuki Fukushima, Kyouhei Sawaki, Ken Okanishi, Masamichi Hikosaka
- 2Pb030 Temperature dependence of relaxation time for styrene oligomer (A-1000) in supercooled liquid state by dynamic light scattering
Minato Sugisaki, Jun Fujimura, Hirotomo Igarashi, Itaru Tsukushi
- 2Pa031 Growth of Poly(p-oxybenzoyl) Whiskers on Substrates Prepared by Crystallization during Polymerization
Natsumi Nozaki, Hironori Atarashi, Shinichi Yamazaki, Kunio Kimura, Koji Nozaki
- 2Pb032 Formation of polyion complex via polymerization induced self-assembly
Yusuke Kinoshita, Kazuhiko Ishihara, Shin-ichi Yusa

Foyer, Frontier Research in Applied Sciences Building

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 2Pa033 Three-dimensional analysis of cellulose nanofiber composite
Akihiro Masuda, Akiyo Yoshida, Naoto Kaneko, Asami Harada
- 2Pb034 In-situ X-ray measurements of cooling crystallization after melt-drawing for ultra-high molecular weight polyethylenes with different molecular weight distributions
Yui Shimizu, Ayaka Takazawa, Hiroki Uehara, Takeshi Yamanobe, Takuya Ohnishi, Yasutake Wakabayashi, Kei Inatomi, Shigehiko Abe, Hiroyasu Masunaga
- 2Pa035 In-situ Secondary Structure Analysis of Polyaspartate Exhibiting Irreversible Helix-helix Transition by Synchrotron X-ray Scattering
Yuki Orito, Hiroyasu Masunaga, Hidemine Furuya, Akihiro Abe
- 2Pb036 Conformational effect analysis on the crystallization of Cellulose
Satoshi Nomura, Shin-ichiro Sato, Tomoki Erata
- 2Pa037 Crystallization behavior of polymers confined at solid substrate
Yusuke Maruyama, Manabu Inutsuka, Takayuki Ikehara
- 2Pb038 Orientation of epsilon crystalline phase in syndiotactic polystyrene films elucidated by fluorescence technique
Hirohide Ebihara, Miho Kakiuchi, Takumi Sano, Tomohiro Sago, Hideyuki Itagaki
- 2Pa039 $\alpha 1$ - $\alpha 2$ Phase Transitions in Isotactic Polypropylene Crystals: Dependence of Higher-order Structure.
Takumi Okamura, Toru Imai, Koji Yamada, Koji Nozaki
- 2Pb040 Relationship between thermodynamic fragility and cooperatively rearranging region (CRR) in amorphous polystyrene and polyisobutylene
Eri Nishiyama, Jun Fujimura, Marika Yokota, Itaru Tsukushi
- 2Pa041 Analysys of distribution of cross-linking in polyolefin material
Hideto Momose, Shingo Ashihara, Kyoko Honbou
- 2Pb042 Intermolecular Interaction of Polydioxanone Studied by Terahertz Spectroscopy
Natsumi Okazaki, Hiromichi Hoshina, Harumi Sato
- 2Pa043 Molecular vibration analysis of amorphous poly(alken)s, poly(ester)s, poly(vinyl)s, poly(oxide)s and poly(acrylate)s on heat capacity below glass transition temperature

Marika Yokota, Itaru Tsukushi

- 2Pb044 Effect of cyclodextrin molecular size on polylactic acid / modified cyclodextrin blends
Hayata Takeda, Takeshi Yamanobe, Hiroki Uehara, Keiko Takahashi, Masaru Yoneyama, Daisuke Nagai
- 2Pa045 Molecular Dynamics Simulation on Structural Change of Polyethylene by Decay from Tritium to Helium-3
Haolun Li, Susumu Fujiwara, Tomoko Mizuguchi, Masato Hashimoto, Hiroaki Nakamura, Takuo Yasunaga, Ayako Nakata, Tsuyoshi Miyazaki, Takao Otsuka, Takahiro Kenmotsu, Yuji Hatano, Shinji Saito
- 2Pb046 Crystallization Process of Polymers under Electric Field
Masahiro Omori, Masato Hashimoto, Susumu Fujiwara, Tomoko Mizuguchi
- 2Pa047 Synthesis of crystalline triblock copolymer and analysis of spherulitic growth rates
Yuki Ishisaki, Toshiyuki Kataoka, Takayuki Ikehara
- 2Pb048 The effect of amorphous graft chain on spherulite growth rates of crystalline/amorphous graft copolymers.
Kyosuke Sugiura, Toshiyuki Kataoka, Takayuki Ikehara
- 2Pa049 Dynamics at around glass transition of amorphous styrene oligomer in various measurement methods
Jun Fujimura, Minato Sugisaki, Marika Yokota, Eri Nishiyama, Itaru Tsukushi
- 2Pb050 Crystallization of Substituted Poly(lactic acid) Having sec-Butyl Side Chains
Ryo Mizukami, Hironori Marubayashi, Shuichi Nojima
- 2Pa051 Crystallization of crystalline polymer and copolymer immobilized on silicon substrates
Risako Oka, Toshiyuki Kataoka, Takayuki Ikehara
- 2Pb052 Odd-even Effects in the Crystallization of 2,5-Furan Dicarboxylate Polyesters
Yunfan Zhang, Shuichi Nojima, Hironori Marubayashi
- 2Pa053 Temperature dependence of regime transition temperature on molecular weight and film thickness of Poly (ethylene oxide) thin film
Taiki Sato, Toshiyuki Kataoka, Takayuki Ikehara

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 2Pa055 Supramolecular hydrogel showing sol-gel transition and color change in response to metal cations
Rika Ochi, Ryoya Oosumi, Azumi Ishigamori, Masayuki Izumi
- 2Pb056 Reinforcement of supramolecular gel structures using photodimerization of coumarin moieties
Kazuhiro Yabuuchi, Matsuo Nanako, Hiroshi Maeda, Masaya Moriyama
- 2Pa057 Polysaccharide gel having a volume phase transition temperature around 45 degree of celsius
Koumei Harajiri
- 2Pb058 Development of mechanoresponsive luminescent elastomers utilizing rotaxane-based supramolecular mechanoluminophore
Yuhei Ozaki, Yoshimitsu Sagara, Tasuku Nakajima, Nobuyuki Tamaoki, Jian Ping Gong
- 2Pa059 Chemical Introduction of Ratiometric Fluorescent Force Probe into Various Polymers

- Hidetsugu Kitakado, Soichi Yokoyama, Atsuhiko Osuka, Shohei Saito
- 2Pb060 Functional evaluation of actuator using photoresponsive polyimide gel having azobenzene moiety
Masaya Matsumoto, Toshiyuki Watanabe
- 2Pa061 Preparation of photo-responsive novel supramolecular material
Kento Ito, Yoshinori Takashima, Akira Harada, Hiroyasu Yamaguchi
- 2Pb062 Synthesis and physical properties of photoresponsive polyrotaxane modified azobenzene mesogen from ortho position
Yu Takita, Masatoshi Kidowaki, Kohzo Ito, Yuki Hayashi
- 2Pa063 A mechanistic analysis of photo-responsive cell manipulation of the diblock copolymers composed of the spiropyran-introduced blocks and PEG
Mitsuya Yamamoto, Keiichi Imato, Naoya Takeda
- 2Pb064 Design of macromolecular fluorescent probes with an intramolecular charge-transfer complex
Hidekazu Nakajima, Ryota Yamanaka, Keiichi Imato, Naoya Takeda
- 2Pa065 Controlling nanostructures of photon upconverting ionic liquids
Shota Hisamitsu, Nobuhiro Yanai, Nobuo Kimizuka
- 2Pb066 Synthesis and characterization of 2-nitrobenzyl type photodegradable surface modifiers with siloxane bonds at 4,5-position
Shundai Genda, Naoya Kawada, Shohei Hanada, Michiko Ito, Kazuo Yamaguchi
- 2Pa067 Synthesis of fluorinated cobalt(II) salen(CoS) derivative and their evaluations of the photo-responsive oxygen bond of polymeric CoS complex membranes.
Yusuke Hirasawa, Naoya Iwasaki, Takayuki Suzuki
- 2Pb068 Lyotropic Liquid Crystalline Semiconducting Helical Block Copolymers Having Azobenzene Side Chains
Hiroki Hayashi, Reiji Kumai, Hajime Sagayama, Shigeki Nimori, Hiromasa Goto
- 2Pa069 Effect of photo-reversible structure change of the polymer ligand on oxygen absorption of Cobalt(II) salen in the membrane
Kana Sakairi, Takayuki Suzuki
- 2Pb070 Preparation of supramolecular materials based on cyclodextrin and stilbene and their photo-responsiveness.
Nanami OKANO, Yoshinori TAKASHIMA, Akira HARADA, Hiroyasu YAMAGUCHI
- 2Pa071 Synthesis of photoinduced adhesive with azobenzene containing slid-ring polymer
Ryo Shishiura, Masatoshi Kidowaki, Haruhisa Akiyama, Yoko Matsuzawa, Kohzo Ito, Yuki Hayashi
- 2Pb072 High-Performance Transparent Actuator made from Poly(dimethylsiloxane)/Ionic Liquid Gel
Naohiro TERASAWA
- 2Pa073 Hollow sphere organic nanocapsules with water response
Masaki Kogiso, Wuxiao Ding, Yusuke Hara
- 2Pb074 Self-healing properties of a supramolecular hydrogel consisting of polyrotaxane cross-linked by host-guest interactions.
Yuichiro Kobayashi, Yoshinori Takashima, Hiroyasu Yamaguchi, Akira Harada
- 2Pa075 Development of a (Polymer/silica) Composite Having both Healability and Mechanochromic Property Based on Dynamic Covalent Chemistry
Takahiro Kosuge, Daisuke Aoki, Hideyuki Otsuka
- 2Pb076 Structure control of cross-linked polymers using dimerization reaction of

lophine moieties and their use
Tetsuya Miura, Shinichiro Ushimaru, Kazuhiro Yabuuchi, Masaya Moriyama

- 2Pa077 Preparation of Biodegradable Shape Memory Polymer Films Exhibiting Stepwise Multiple Shape-recovery to Folded States
Koki Kawagishi, Yuta YOSHIZAKI, Akinori KUZUYA, Yuichi OHYA
- 2Pb078 Development for Magnetic Elastomers with Wide Range Modulation of Vibration Absorbing Property
Kazushi Nagashima, Shuya Takahashi, Mika Kawai, Tetsu Mitsumata
- 2Pa079 Preparation of Novel Nano-structured Stimuli-responsive Gels and Their Surface-structural Properties
Kosuke Karakane, Kenichi Ogata, Ryuichi Nakatani, Akifumi Kawamura, Teruaki Hayakawa, Takashi Miyata
- 2Pb080 Synthesis and sensing properties of core cross-linked semiconductor nanoparticles with stimuli-responsive functions
KEITA Kataoka, CHEN-TSYR Lo, KAZUHIRO Nakabayashi, HIDEHARU Mori
- 2Pa081 Preparation and Physical Property Evaluation of Polycaprolactone Having Positive Charge and Shape Memory Property
Yuta Takeuchi, Toru Hoshi, Takao Aoyagi
- 2Pb082 Efficient Preparation of Hollow-Type Spherical Bacterial Cellulose Gel Using Single Oil by Floating Culturing in Silicone Oil.
Masahito Endo, Toru Hoshi, Takao Aoyagi
- 2Pa083 Drug Release from Polycaprolactone Grafted Hollow-type Spherical Bacterial Cellulose Gel.
Yutaka Sato, Toru Hoshi, Takao Aoyagi
- 2Pb084 Preparation of Temperature Responsive PNIPAAm Gel having Uniform Crosslinking Point Distribution
Takumi Masamoto, Toru Hoshi, Takao Aoyagi
- 2Pa085 Aggregation induced emission polymer-based whispering gallery mode resonators for humidity sensing
Airong Qiagedeer, Minami Sakamoto, Fumitaka Ishiwari, Takanori Fukushima, Yamamoto Yohei

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 2Pb088 Development of Colorimetric Assay of DNA damaging agents Based on Double-Stranded DNA-Modified Gold Nanoparticles
Kazunori Kimura, oshitsugu Akiyama, Tohru Takarada, Mizuo Maeda, Akihiko Kikuchi
- 2Pa089 Synthesis of guanidinylated chitosans for developing a novel protein delivery system
Mizuki Kinai, Hironori Izawa, Minoru Morimoto, Shinsuke Ifuku, Hiroyuki Saimoto
- 2Pb090 Structural transition of a water-soluble beta-glucan from Aureobasidium pullulans (KGB)
Hiroyuki Kono, Nobuhiro Kondo, Katsuki Hirabayashi, Makoto Ogata
- 2Pa091 Preparation of chitin nanofiber emulsion and its effect on skin
Ayano Tosaki, Kazuo Azuma, Hironori Izawa, Minoru Morimoto, Hiroyuki Saimoto, Shinsuke Ifuku
- 2Pb092 Simulation on Swelling of Chitin in Calcium Bromide Dihydrate/Methanol Solution
Takuya Uto, Kazuya Yamamoto, Jun-ichi Kadokawa

- 2Pa093 Structural Characterization of Gel of Xanthan Gum with an Ionic Liquid
Takuya Uto,Yoshiaki Yuguchi,Kazuya Yamamoto,Jun-ichi Kadokawa
- 2Pb094 Glass Transition of Regenerated Cellulose Fibers by Organic Solvents
Akari Okugawa,Chihiro Yamane
- 2Pa095 Effect of starch concentration on the equilibrium of boric acid
Atsushi Kobayashi,Nanami Kamizawa,Yuto Hoshino,Hiroshi Itoh,Yasushi Numata
- 2Pb096 Micro-structured surfaces induced by ionic cross-linking type skin layers
Tomoe Yonemura,Hironori Izawa,Norihiko Ito,Shinsuke Ifuku,Minoru Morimoto,Hiroyuki Saimoto
- 2Pa097 Degradation control of aldehyde-introduced cellulose
Xida Yuan,kazuaki Matsumura
- 2Pb098 Preparation of Glycopolymer having trehalose unit
Tomohiro Fukuda,Sotaro Tsuji
- 2Pa099 Preparation of wound dressing material containing chitin nanofiber
Roman Katsui,Kazuo Azuma,Hironori Izawa,Minoru Morimoto,Hiroyuki Saimoto,Shinsuke Ifuku
- 2Pb100 Preparation of Cationic Chitin Nanofiber/Xanthan Gum Composite Hydrogel
Akito Kawano,Kouki Sato,Kazuya Yamamoto,Jun-ichi Kadokawa
- 2Pa101 Construction of Hierarchical Structures by Surface Acylation on Self-assembled Chitin Nanofibers
Akito Kawano,Kazuya Yamamoto,Jun-ichi Kadokawa
- 2Pb102 Enzymatic synthesis and derivatization of clickable cellooligosaccharides
Yasuko Takagi,Takuya Isono,Naoki Sunagawa,Takuya Yamamoto,Kiyohiko Igarashi,Motomitsu Kitaoka,Toshifumi Satoh,Kenji Tajima
- 2Pa103 Design of cationic glycopolymers and surface coating of nanoparticles for effective cellular uptake
Yukino Fukuda,Shigehito Osawa,Hidenori Otsuka
- 2Pb104 Glucose- and/or Mannose-PEGylated chlorin-typed photosensitizers; Synthesis and characterization for advanced PDT photosensitizer
Takashi Kumagai,Montaser Shaykoon Ahmed Shaykoon,Atsushi Narumi,Moriya Kikuchi,Seigo Kawaguchi,Akihiro Nomoto,Shigenobu Yano
- 2Pa105 Construction and functional evaluation of oligo-nucleic acid substituted polysaccharide nanogels
Hirokazu Iwamoto,Shinichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi
- 2Pb106 Synthesis and Property of Cellulose Nanofibers Modified with Succinic Anhydride
Masayuki Sugimoto,Masahiro Yamada,Rentei Rin
- 2Pa107 Preparation of chitosan derivatives by a microwave assisted method
Shun Murasawa,Tetsuya Furuike,Hiroshi Tamura
- 2Pb108 Drug delivery system based on phosphorylated pullulan
Takumi Okihara,Shota Miyake,Ryota Kitada
- 2Pa109 Neuraminidase resistant sialoside-modified DNA having influenza virus binding ability
Miyuki Yamabe,Kunihiro Kaihatsu,Yasuhito Ebara
- 2Pb110 Preparation of High-performance Hybrid Material of Sacran and Cellulose nanofiber
Qiang Han,Kosuke Okeyoshi,Maiko Okajima,Tatsuo Kaneko
- 2Pa111 Development of photo-curable adhesive based on CM-chitin derivative

- having polymerizable functional group and chitin nanofiber
Atsushi Sawada, Hironori Izawa, Minoru Morimoto, Shinsuke Ifuku, Hiroyuki Saimoto
- 2Pb112 Polymerization of 2-isopropoxy-2-oxo-1,3,2-dioxaphospholane (IPP) with cellulose nanocrystals (CNC)
Suphatra Hiranphinyophat, Yasuhiko Iwasaki
- 2Pb114 Independent and wide-range control of elasticity and biodegradability of silk fibroin hydrogels
Yusuke Kambe, Yuji Mizoguchi, Yoshiaki Hirano, Tetsuji Yamaoka
- 2Pa115 Development of mechano-biomaterials formed by reversible intermolecular interactions
Masaki Nakahata, Hörning Marcel, Linke Philipp, Yamamoto Akihisa, Veschgini Mariam, Kaufmann Stefan, Takashima Yoshinori, Harada Akira, Tanaka Motomu
- 2Pb116 Regulation of Organoid Culture by Microfabrication of Photocurable Gel
Sho Kambayashi, Mototsugu Eiraku
- 2Pa117 Functionalization of Silk Fibroin Materials Using Adsorption of the Homologous Peptides
Chikako T. Nakazawa, Ryoichi Takahashi, Momoko Sonoda, Atsushi Asano, Yasumoto Nakazawa
- 2Pb118 Thermoresponsive-Cationic Block Copolymer Brushes for Cell Separation
Ayumu Ota, Kennichi Nagase, Hideko Kanazawa
- 2Pa119 Fabrication of Growth Factor Conjugated Injectable IPN gel and Controlling the Conjugation-Linker Length to maximize Embedded Chondrocyte Function
Hiro Yamaguchi, Syohei Ishikawa, Shigehito Osawa, Michihiro Iijima, Hidenori Otsuka
- 2Pb120 Temperature-modulated cell separation using peptide-immobilized thermoresponsive polymer brushes
Masaki Shimura, Kengo Hanaya, Yuki Hiruta, Kenichi Nagase, Hideko Kanazawa
- 2Pa121 Enhanced cell infiltration into hydrophobically-modified fish gelatin hydrogel
Yosuke Mizuno, Tetsushi Taguchi
- 2Pb122 Fabrication of 3D cardiac tissue on the biopolymer gel by LbL and cell accumulation technique.
Yoshinari Tsukamoto, Takami Akagi, Mitsuru Akashi
- 2Pa123 Vitrification of cell constructs by using polyampholyte
Sho Hatakeyama, Wataru Terai, Hiroshi Ueda, Kazuaki Matsumura
- 2Pb124 Construction of iPS-derived myocardial fibrosis models which controlled fibrosis and application to drug assessment.
Koki Nishi, Misaki Komeda, Michiya Matsusaki

Entrance Hall, Frontier Research in Applied Sciences Building

Presentation Time

<c = 13:20~14:00>

<d = 14:00~14:40>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 2Pc001 Micellization and Self-Sorting of Amphiphilic Random Copolymers: Structure Control by Pendant Design and Solvents
Kei Tanaka, Makoto Ouchi, Takaya Terashima
- 2Pd002 Reversible switching of the conformational flexibility of a diazacyclooctane-

- containing ladder polymer by coordination and elimination of a Lewis acid
Momoko Ofuchi, Fumitaka Ishiwari, Takanori Fukushima
- 2Pc003 Properties and reactivity of star-shaped cage silsesquioxanes with controlled the number of units
Naoyuki Nakaya, Hiroaki Imoto, Kensuke Naka
- 2Pd004 Synthesis of soluble hybrid polymers based on fluorinated incompletely condensed cage silsesquioxanes
Lina Li, Hiroaki Imoto, Kensuke Naka
- 2Pc005 A relationship between arm structures and thermoresponsive properties of a star polymer having polyoxazoline chain
Akari Yamada, Masato Kishiwaki, Keigo Aoi
- 2Pd006 Ring expansion-controlled radical vinyl polymerization: brush-modification and AFM observation
Yamato Unno, Masatsugu Yamada, Jiro Kumaki, Moriya Kikuchi, Seigou Kawaguchi, Atsushi Narumi
- 2Pc007 Synthesis of Core-Crosslinked Ionic Star Polymers Covered by Hydrophobic Shells
Riona Mukai, Shohei Ida, Shokyoku Kanaoka
- 2Pd008 Unique Thermoresponsive Behavior of Star Poly(*N*-isopropylacrylamide) Derived Specifically from Highly Branched Star-Shaped Structures
Sayuri Takeshima, Yuri Toyama, Shohei Ida, Shokyoku Kanaoka
- 2Pc009 Synthesis of cyclic polyphenylenes grafted with vinyl polymer and their physical properties
Taisuke KIMURA, Hajime SUGITA, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 2Pd010 One-pot synthesis of hyperbranched polyguanamine from cyanuric chloride with various diamines
rina sasahara, yuji shibasaki, yoshiyuki oishi
- 2Pc011 Synthesis and Property of Amphiphilic Poly(α -substituted acrylate) Bearing Phenyl Group and Oligo(ethylene oxide) Chain
Kohei Hashimoto, Takahiro Uno, Masataka Kubo, Takahito Itoh
- 2Pd012 Synthesis of cyclic polymers by ring-expansion polymerization of thiiranes using benzothiazolones as initiators
Ryu Yuzaki, Akira Takahashi, Yoshihito Ishida, Atsushi Kameyama
- 2Pc013 Synthesis, Characterization, and Electrochemical Properties of Poly(carbon monosulfide) by Electropolymerization of Carbon Disulfides in the Presence of Tertiary Phosphines
Nozomi Tauchi, Ikuya Funakoshi, Akihiko Kanazawa
- 2Pd014 Effect of topology on the photoluminescence of amphiphilic block copolymer having AIE properties
Shin-ichi Yamamoto, Tomoyuki Ono, Shotaro Hayashi, Toshio Koizumi
- 2Pc015 Synthesis of functional branched polymers containing multiple PEG chains and their usefulness evaluation
Akari Tasaki, Michihiro Iijima

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 2Pc017 Effect of Hexafluoro-2-isopropanol on the morphology of the stereoisomeric polylactic acid mixture preparation and Microstructure
Shota Watanabe, Shuta Hara, Sei Kurebayashi, Shigeru Shimizu, Hiroki Ikake
- 2Pd018 Change in Crystalline States of Various Block Chains Confined in

Nanodomains by Releasing Chain-end Tethering
Hiroaki Kikuchi, Hironori Marubayashi, Takashi Ishizone, Shuichi Nojima, Kazuo Yamaguchi, Seiichi Nakahama

- 2Pc019 Characteristic Crystallization of a Strongly Segregated Crystalline-Crystalline Diblock Copolymer.
Yuki Abe, Satoshi Oosawa, Hironori Marubayashi, Shuichi Nojima
- 2Pd020 Intermolecular Interaction of Substituted Poly(lactic acid) Having Isopropyl Side Chains
Yuji Hamada, Hironori Marubayashi, Nojima Syuichi
- 2Pc021 Crystallization and observation polyamides grafted on Si substrates
Yuta Suzuki, Toshiyuki Kataoka, Takayuki Ikehara
- 2Pd022 Separation of ethanol from ethanol/water solution by syndiotactic polystyrene
Yusuke Okuda, Takahiko Nakaoki
- 2Pc023 Extended and Folded Chains for Ultrahigh Molecular Weight Polyethylene
Koichiro Nishida, Takahiko Nakaoki, Hideaki Ishihara
- 2Pd024 Evaluation of physical properties of ethylene-vinyl alcohol copolymer film with different ethylene fraction
Shusuke Nishida, Takahiko Nakaoki
- 2Pd026 Crystallization and melting behaviors of polyoxamide crystals: Nylon-9,2 and Nylon-MOMD,2
Gaku Kono, Makoto Ezumi, Akihiko Toda, Syuichi Maeda, Tomoyuki Nakagawa, Koji Nozaki
- 2Pc027 The study on the density fluctuations of amorphous polymer by time-resolved X-ray scattering
Daisuke Iwahara, Shotaro Nishitsuji, Hiroshi Ito, Masaru Ishikawa, Takashi Inoue, Mikihiro Takenaka
- 2Pd028 Investigation of an electron density mapping methods for linear polymers in the crystal state on the basis of synchrotron powder X-ray diffraction data
Kosei Noso, Miho Nagao, Kenichi Kato, Masaki Takada, Shinichi Sakurai, Sono Sasaki
- 2Pc029 Material Properties of Element-Blocks Based on Completely and Incompletely Condensed Cage-Silsesquioxanes
Sota Yuasa, Satoshi Morimoto, Hiroaki Imoto, Kensuke Naka
- 2Pd030 Investigation of visualization of inter-chain hydrogen bonding formed in Nylon 6 crystal structure
Miho Nagao, Zyunki Yamamoto, Kenichi Kato, Masaki Takata, Shinichi Sakurai, Sono Sasaki
- 2Pc031 In-Situ X-ray Measurement during Drawing of Poly(oxy-methylene) Film
Daiki Nara, Hideyuki Yamashita, Hiroki Uehara, Takeshi Yamanobe, Tsuyoshi Ikeda, Hiroyasu Masunaga
- 2Pd032 Preparation of poly(p-phenylene terephthalamide) single crystal and annealing effect
Tomoyasu Takaki, Tetsuya Uchida

Foyer, Frontier Research in Applied Sciences Building

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 2Pc033 Molecular weight change of cyclic polyesters via transesterification and molecular weight dependence of promotion and suppression of nucleation to linear polyesters
Saori Yoshida, Hironori Atarashi, Shinichi Yamazaki, Kunio Kimura

- 2Pd034 The effects of transparent nuclear agents on crystal morphology of isotactic polypropylene
Takeshi Sato,Go Matsuba
- 2Pc035 Effect of nucleating agents on preparation and application of poly(L-lactic acid) fiber mats
Namiki Nakayama,Hanako Asai,Koji Nakane,Shinichi Maeda,Takuma Nagahama,Yoshinori Kasai
- 2Pd036 Controlled crystalline Structure of Poly(vinylidene difluoride) (PVDF) in Polymer Blends of PVDF / Poly(methyl methacrylate): Effect of Miscibility of the Polymers on Crystalline Polymorphism
yuichi Fujioka,Yuta Koda,Eriko Sato,Hideo Horibe
- 2Pc037 Terahertz spectroscopy studies of intermolecular interaction of polymer and its application
Harumi Sato,Chihiro Funaki,Seika Tatsuoka
- 2Pd038 Preparation of crystalline orientation sample of poly-4-methylpentene 1
Yusuke Nomura,Hiroaki Yoshimizu
- 2Pd040 Spherulitic growth rate of crystalline/amourphous triblock copolymer
Issei Tanaka,Toshiyuki Kataoka,Takayuki Ikehara
- 2Pc041 Effect of kneading on the structure and physical properties of EPDM rubber
Fumiya Hoshino,Hiroki Uehara,Takeshi Yamanobe,Masakazu Manaka
- 2Pd042 The study of hysteresis in demixing and remixing of the aqueous Poly(N-isopropylacrylamide) solution by using fluorescence correlation spectroscopy
Hironori Ishihara,Yukiteru Katsumoto,Yusuke Sanada,Reika Ikemoto
- 2Pc043 Growth rate of spherulites and transient domains of poly(p-phenylene sulfide) near glass transition temperature
Yasutoshi Tanzawa,Mitsuo Ando
- 2Pd044 Study of Higher-Order Structure and Crystallization Process of Polybutylene terephthalate by Terahertz Spectroscopy
Yumiko Yamamoto,Hiromichi Hoshina,Harumi Sato
- 2Pc045 Ability of cellulose nanocrystal and its acetates as nucleating agent for poly(lactic acid)
Toshiya Yamasaki,Keiko Kobayashi,Masaya Omura,Fuminori Atarashi,Shinichi Yamazaki,Kunio Kimura
- 2Pd046 Characterization of Microdomain structure of thermoplastic elastomer during various deformations using synchrotron radiation x-ray scattering technique
Nattanee Dechnarong,Kazutaka Kamitani,Chao-Hung Cheng,Shiori Masuda,Shuhei Nozaki,Chigusa Nagano,Nobuhisa Takayama,Ken Kojio,Atsushi Takahara

S13. Polymer Gel Opens the Way to Soft Matter Science

- 2Pc049 Correlation between microphase structures and physicochemical properties in ion gels comprising ABA-type block copolymers
Kei Hashimoto,Manabu Hirasawa,Masayoshi Watanabe
- 2Pd050 Alternating Copolymers Carrying Long Alkyl and Phenol Substitutes for Organogel
Kana Nishimori,Francois Tournilhac,Takaya Terashima,Makoto Ouchi
- 2Pc051 Design of neural cell cross-linked hydrogels and analysis of their physicochemical and cellular properties

Seika Aoyama, Koji Nagahama

- 2Pd052 Dynamics of gel critical clusters
Takako Noritomi, Xiang Li, Takamasa Sakai, Mistuhiro Shibayama
- 2Pc053 3D gel printing for Jellyfish-mimic robot
Yuki Takishima, Hidemitsu Furukawa, Masaru Kawakami, Kyuitiro Takamatsu, Kazunari Yosida, Azusa Saito, Takahumi Ota, Taishi Tase
- 2Pd054 Development of gel touch sensor using ion gel
Yuta Hara, Kazunari Yoshida, Kumkum Ahmed, Masaru Kawakami, Hidemitsu Furukawa
- 2Pc055 Nonlinearity index of viscoelasticity under LAOS test
Rika Takeda, Yuki Honda, Ryoen Shirasaki, Kyoichi Tsurusaki
- 2Pd056 Dynamics of thermoresponsive conetwork gels
Masashi Ohira, Xiang Li, Takamasa Sakai, Mitsuhiko Shibayama
- 2Pc057 Effects of molecular mass of polymer and clay-polymer interactions on mechanical properties of clay-polymer blend hydrogels
Hiroyuki Takeno, Miki Tazawa, Arisa Nakamura, Yusuke Aoki
- 2Pd058 Stretch induced microphase separation and mechanical properties of polyrotaxane gel consisting of triblock copolymer backbone
Masayuki Taniguchi, Rina Maeda, Shuntaro Uenuma, Koichi Mayumi, Kazuaki Kato, Hideaki Yokoyama, Kohzo Ito
- 2Pc059 Thermo-"irreversible" supramolecular gel containing a dynamic imine bond and its application for visualizing thermal hysteresis.
Yudai Tominaga, Yuki Nishida, Shota Yamamoto, Tatsuo Maruyama
- 2Pd060 Processing and Physical Properties of Temperature-Sensitive-Gel Particles/Polymer Composite Film
Kohei Sakai, Jin Gong, Hiroshi Ito, Kosei Sato, Kazuhiro Hamada

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 2Pd062 Creating Tough Hydrogel Material Systems towards Repair via Active Flow
Yumeko Kudo, Riku Takahashi, Daniel R. King, Tasuku Nakajima, Takayuki Kurokawa, Jian Ping Gong
- 2Pc063 Control of light absorption properties of mineralized titanium dioxide using peptide template
Kazuki Murai, Takashi Tomozoe, Keishi Nishi, Mutsuyoshi Matsumoto
- 2Pd064 Analyses of nucleation and crystal growth of calcium carbonate by biomimetic mineralization in peptide hydrogel
Yosuke Funamizu, Kazuki Murai, Toshihiko Ogura, Keishi Nishio, Mutsuyoshi Matsumoto
- 2Pc065 The mechanism of mineralization of calcium phosphate at interface of peptide hydrogels
Hiroto Isobe, Kazuki Murai, Kanjiro Torigoe, Keishi Nishio, Mutsuyoshi Matsumoto
- 2Pd066 Shape memory polymers for future medicine
Koichiro Uto, Mitsuhiko Ebara
- 2Pc067 Preparation of stimuli responsive crosslinked polymer film
Rin Kadowaki, Daisuke Ishii
- 2Pd068 Development and characterization of polymer actuator made from nanofiber mats
Tomotaka Okumura, Hanako Asai, Koji Nakane
- 2Pc069 Synthesis and photo-responsivity polymers of phenylazoimidazole moiety in the side chain

Tsubasa Tanaka, Akira Takahashi, Yoshihito Ishida, Atsushi Kameyama

- 2Pd070 Design of Temperature-responsive Self-assemblies Composed of Amphiphilic Liquid Crystalline Polymers and Their Applications as Drug Carriers
Yuki Hirano, Yasuaki Inoue, Akifumi Kawamura, Takashi Miyata
- 2Pc071 Synthesis of Side-Chain Liquid Crystalline Polymers with Ligands and Their Molecular Recognition Behavior
Kenya Majima, Akifumi Kawamura, Takashi Miyata
- 2Pd072 Preparation of composite gel using succinylated chitosan
Atsuki Onishi, Tetsuya Furuike, Hiroshi Tamura
- 2Pc073 Synthesis and Physical Properties Evaluation of Fluorine-Containing Supramolecular Gelator Derived from Diaminoalkyl Skeleton
Kanako Kano, Eiichi Sasaki, Tomoko Yajima
- 2Pd074 Development of surface grafted self-oscillating gel and control of its dynamic function
Mami Furusawa, Younsoo Kim, Ko Mastukawa, Aya Akimoto, Ryo Yoshida
- 2Pc075 Synthesis of semi-aromatic polyimides with long alkyl spacers and their thermal properties
Akira SHIMODA, Ryohei ISHIGE, Shinji ANDO, Tomoya HIGASHIHARA
- 2Pd076 Effect of substituents on surface properties modified with photodegradable silane coupling agents having POSS moieties
Yuta Ono, Noriko Chikaraishi, Kazuo Yamaguchi
- 2Pc077 Preparation of Polycaprolactone Having Ionic Functional Group and Evaluation of Conductivity
Ko Matsuda, Toru Hoshi, Takao Aoyagi
- 2Pd078 Negative Thixotropy Behavior for Sacran/Xanthan Aqueous Solution
Fitri Adila Amat Yusof, Mika Kawai, Maiko Okajima, Tatsuo Kaneko, Tetsu Mitsumata
- 2Pc079 Thermal behaviors of one-by-one-chain-tethered sliding graft copolymers with different lengths of PEG side chains
saki morimoto, yasuhiko kohsaka, jun araki
- 2Pd080 Functionalization and stability tests of poly(vinyl alcohol) (PVA) via benzoxaborole-based copolymers
Yoko Kudo, Yohei Kotsuchibashi
- 2Pc081 Function control of ointment base by introduction of hydrophilic / hydrophobic group using allyl PEO having allyl group in side chain
Yuto Funato
- 2Pd082 Formation of a self-assembled liquid crystalline polymer brush in micro-fabricated polymer structure
Koji Mukai, Mitsuo Hara, Shusaku Nagano, Hiroshi Yabu, Takahiro Seki
- 2Pc083 Synthesis and physical properties of slide-ring gels using Diels-Alder reaction for crosslinking.
Kenichiro Kishinami, Masatoshi Kidowaki, Kohzo Ito, Yuki Hayashi
- 2Pd084 Preparation of Polyester Soft Films Containing Trans-esterification Type Dynamic Cross-links and its Physical Property Investigation
Ryoto Yano, Mikihiko Hayashi, Akinori Takasu
- 2Pc085 Homeotropic orientation of nematic liquid crystals induced by copolymers with a methacrylate having tertiary amino group and two mesogens with some non-liquid crystalline methacrylates
Tomoki Shindo, Nao Nakamura, Koichiro Yonetake, Osamu Haba, Yuichi

Momoi

- 2Pd086 Homeotropic alignment to nematic liquid crystals induced by dissolved copolymers of (meth)acrylates having cyclohexylphenyl group as mesogen with 2-(dimethylamino)ethyl (meth)acrylate
Shunsuke Okazaki, Koichiro Yonetake, Osamu Haba, Yuichi Momoi
- 2Pc087 Synthesis of porous thermosensitive gel having gradient acylation structure and its bending properties
Makoto Kanemitsu, Hiroya Okamoto, Takehiko Gotoh, Takashi Iizawa
- 2Pd088 Magnetorheological Effect for Magnetic Elastomers Containing Plastic Beads
Shota Akama, Mika Kawai, Tetsu Mitsumata
- 2Pc089 Effect of Sonication on Magnetorheological Effect for Monomodal Magnetic Elastomers
Mayuko Watanabe, Junko Ikeda, Yoshihiro Takeda, Mika Kawai, Tetsu Mitsumata
- 2Pd090 Development for Magnetic Elastomers with Variable Wettability by Magnetic Field
Mayuko Watanabe, Mika Kawai, Daiki Murakami, Masaru Tanaka, Tetsu Mitsumata
- 2Pc091 Time-lapse measurements of interphase wettability between water and hydrophilic hydrogels having different physical network structures
Aya Mizutani Akimoto, Nobuyuki Tanaka, Ko Matsukawa, Yoshihide Haruzono, Yo Tanaka, Ryo Yoshida
- 2Pd092 Synthesis of biodegradable ABA type block polymers by end-functionalized poly(tetramethylene glycol) and their application.
Maiko Handa, Umi Miyata, Keisuke Mukasa, Michihiro Iijima
- 2Pc093 Large-area alignment control of polymer structures induced by photopolymerization with scanned light
Miho Aizawa, Norihisa Akamatsu, Atsushi Shishido
- 2Pd094 One-Step fabrication of hydrogel composites with rigid surface
Zhen Tao, Hailong Fan, Junchao Huang, Kunpeng Cui, Taolin Sun, Takayuki Kurokawa, Jian Ping Gong
- 2Pc095 Gelation properties and mesomorphic behavior of two-component systems based on tartaric acid and aliphatic amines
Hiroaki Tomita, Kazuhiro Yabuuchi
- 2Pd096 Preparation of colored magnetic particles functionalized by magnetically responsive polymer network
Kotona Kohaku, Michinari Kohri, Tatsuo Taniguchi, Keiki Kishikawa
- 2Pc097 Analysis of parameters determining polymer gel degradation behavior
Suguru Gosho, Yasutaka Anraku, Ichiro Sakuma, Yuki Akagi
- 2Pd098 Particle dispersibility and magnetorheological effect for carrageenan magnetic hydrogels
Junko Ikeda, Shota Akama, Mika Kawai, Tetsu Mitsumata
- 2Pc099 Preparation of an ethylene glycol-based block copolymer consisting of six different temperature-responsive segments
Yohei Kotsuchibashi, Kudo Yoko, Mori Hiromitsu
- 2Pd100 Transfer phenomenon for of low-molecular-weight compounds between immiscible elastomers
Kaede Morita, Phulkerd Panitha, Masayuki Yamaguchi

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 2Pd102 Fabrication of Inorganic Coated Vesicles by Self-supplied Mineralization for DDS Carriers

Chiho Miyamaru, Masahiro Higuchi

- 2Pc103 fabrication of multi-stimuli responsive dds carrier having nanogate composed of beta-turn peptide
Yuichiro Suzuki, Masahiro Higuchi
- 2Pd104 Sensing system using heavy metal induced ion channel composed of PEG-peptide
Yuriko Ito, Masahiro Higuchi, Tomohiro Miura
- 2Pc105 Supramolecular gelator that can gelate cancer cells selectively
Shota Yamamoto, Yuki Nishida, Tatsuo Maruyama
- 2Pd106 Preparation of anionic nanocrystal cellulose / polymer hydrogel hydrogel hybrid and evaluation of blood clotting activity
Yuto Oki, Kohei Shiraishi, Kozue Okano
- 2Pc107 Synthesis of multi- stimuli-responsive polymer for protein delivery
Dandan Zhao, Robin Rajan, Kazuaki Matsumura
- 2Pd108 Fabrication of firebrat's scale mimicking surfaces using a patterning of hydrophilic and hydrophobic surface
Shun Uemura, Yuji Hirai, Masatsugu Shimomura
- 2Pc109 Surface properties and water swelling behavior on various substrates coated with poly(MPC-co-dodecyl methacrylate)
Yusuke Takagi, Yuki Takebe, Kohei Shiraishi, Chie Kojima, Akikazu Matsumoto
- 2Pd110 Controlled synthesis of novel zwitterionic polymers containing tertiary sulfonium group for protein stabilization.
Ryutaro Imamura, Hideharu Mori
- 2Pc111 Investigation of biomaterials prepared by poly(trimethylene carbonate) derivatives with ester free structure
Akari Machara, Nalinthip Chanthaset, Hiroaki Nobuoka, Hiroharu Ajiro
- 2Pd112 Construction of Human 3D-Cancer-Stromal Tissues with High ECM Density Using Collagen Microfibers and Evaluation of Cancer Blood Vessel Leakage
Natsuko Kato, Misaki Komeda, Michiya Matsusaki
- 2Pc113 Regulation of microtubule aster formation by centrosomal actin network
Daisuke Inoue, Dorian Obino, Francesca Farina, Jeremie Gaillard, Christophe Guerin, Laurent Blanchoin, Ana-Maria Lennon-Dumenil, Manuel They
- 2Pd114 Synthesis and characterization of degradable property of thermoresponsive degradable hydrogels having main chain ester bonds
Takuya Sato, Syuuhei Komatsu, Ryo Ishihara, Akihiko Kikuchi
- 2Pc115 Development of poly([2-(methacryloyloxy)ethyl]trimethylammonium chloride)-based antimicrobial materials.
Hiromitsu Mori, Toshiki Shiga, Keiichi Uemura, Aika Ogata, Yuji Narita, Akihiro Saito, Yohei Kotsuchibashi
- 2Pd116 Development of protein responsive multicomponent supramolecular hydrogels
Keisuke Nakamura, Hajime Shigemitsu, Tomonobu Matsuzaki, Ryou Kubota, Itaru Hamachi
- 2Pc117 Synthesis and characterization of thermoplastic elastomers with local folding structure inspired by muscle proteins
Shintaro Nakagawa, Naoko Yoshie
- 2Pd118 Construction of proteoliposomes embedding tetraspanin for development of artificial exosome
Shuheng Yan, Mitsuru Ando, Yoshihiro Sasaki, Kazunari Akiyoshi

- 2Pc119 Approach for the assessment of bone quality in osteotomy model indicating complex bone structure
Yuya Kanehira, Teppei Ito, Tomohiro Shimizu, Ryota Hara, Masahiko Takahata, Hiromi Kimura-Suda
- 2Pc121 Synthesis of biopolyester using inedible compounds and its thermal induced crosslinking
Masuhiko Okada, Katsunori Suzuki, Yasuteru Mawatari, Masayoshi Tabata
- 2Pd122 Design and Syntheses of Cationic Biopolyamide Derived from Exotic Amino Acid
Jakkapon Phanthuwongpakdee, Sumant Dwivedi, Kenji Takada, Sandhya Babel, Tatsuo Kaneko
- 2Pc123 Antibacterial property of cationic hydrogels
Yuki Shibata, Takayuki Kurokawa, Tomoyasu Aizawa, Honglei Guo, JianPing GONG
- 2Pd124 Synthesis of Bio-based Polybenzimidazole and Polybenzoxazole copolymers with Ultra-High Thermal Stability
Maninder Singh, Mohammad Asif Ali, Makoto Watanabe, Aniruddha Nag, Kenji Takada, Tatsuo Kaneko

Entrance Hall, Frontier Research in Applied Sciences Building

Presentation Time

<e = 15:20~16:00>

<f = 16:00~16:40>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 2Pe001 Chain End Modification of Poly(styrene-*block*-methyl methacrylate) by Terminal-Selective Transesterification
Kohei Yoshida, Shunma Tanaka, Ken Miyagi, Takuya Isono, Takuya Yamamoto, Kenji Tajima, Redouane Borsali, Toshifumi Satoh
- 2Pf002 Synthesis of ladder polymer by palladium-catalyzed direct arylation of polystyrene derivatives
Hidetoshi Tanaka, Koji Takagi, Koichiro Mikami
- 2Pe003 Study of packing behavior of high performance poly(guanamine) containing cyclic guanamine structure
Haruki Sasaki, Tomohiro Kotaki, Yuji Shibasaki, Yosiyuki Oishi
- 2Pf004 Interfacial Synthesis of Graphdiyne Nanosheet and its Analogues
Ryo SHIOTSUKI, Ryota MATSUOKA, Ryota SAKAMOTO, Hiroshi NISHIHARA
- 2Pe005 Synthesis of stimuli-responsive semiconductor nanoparticles by self-assembly of amino acid-based block copolymer and core cross-linking reactions
KEITA Kataoka, CHEN-TSYR Lo, KAZUHIRO Nakabayashi, HIDEHARU Mori
- 2Pf006 Synthesis of Flexible and Symmetrical Ladder Polymers with Diazacyclooctane Skeleton
Keiki Inoue, Nobuhiko Takeuchi, Fumitaka Ishiwari, Takanori Fukushima
- 2Pe007 Synthesis of cyclic polymers using dynamic rotaxane structure
Nami Okamoto, Kazuko Nakazono, Satoshi Uchida, Toshikazu Takata
- 2Pf008 Synthesis and Properties of Copolymers using Bifunctional Incompletely Condensed Cage-Silsesquioxane Monomers
Yuri Sato, Hiroaki Imoto, Kensuke Naka
- 2Pe009 One-pot synthesis of polyrotaxane with different host coverage and its slide-

ring gels

Lan Jiang, Chang Liu, Koichi Mayumi, Kazuaki Kato, Hideaki Yokoyama, Kohzo Ito

- 2Pf010 Preparation of polyrotaxane using reversible addition-fragmentation chain transfer polymerization
YuCheng Wang, Rina Maeda, Hideaki Yokoyama, Kohzo Ito
- 2Pe011 Synthesis of polyrotaxane by atom transfer radical polymerization with bifunctional initiator
Fukito Kuramoto, Masatoshi Kidowaki, Kohzo Ito, Yuki Hayashi
- 2Pf012 Synthesis and surface characterization of polymethacrylates bearing with perfluorohexyl groups and oligosiloxane chains
Fumitaka Sato, Kenji Sugiyama
- 2Pe013 Synthesis and solution behavior of ABC triblock terpolymers composed of PNIPAM, PDMAM and PCL segments
Shunsuke Obi, Sugiyama Kenji
- 2Pf014 RAFT Emulsion Polymerization-Induced Self-Assembly of Vinyl Acetate Using Poly(Hydroxy-Functional Vinyl Ether)
Ryuva Kawakami, Shinji Sugihara, yasushi Maeda
- 2Pe015 Synthesis of quinacridone-based π -conjugated polymers and the complexation with various metal ions
Tomoka Fujii, Atsushi Kimoto
- 2Pf016 Synthesis of π -conjugated carbazole polymers possessing ketoimine moiety in side chain
Kohei Teki, Atsushi Kimoto
- 2Pe017 Synthetic Study of Coronene Analogue via Cyclic Triamide of Brominated *p*-(Alkylamino)benzoic Acid
Arisa Ishii, Tomoyuki Ohishi, Akihiro Yokoyama
- 2Pf018 Synthesis of Poly(*m*-phenylene ethynylene) with Helical Conformation Induced by Inner Hydrogen Bonding.
Asami Nakajima, Kazuto Takaishi, Tomoyuki Ohishi, Akihiro Yokoyama
- 2Pe019 Cyclic Trimerization of 6(5*H*)-Phenanthridinone Unit and Pd-Catalyzed Intramolecular Biarylation for the Synthesis of Kekulene Analogue
Daisuke Nakagawa, Tomoyuki Ohishi, Akihiro Yokoyama
- 2Pf020 Synthesis and Properties Evaluation of Conjugated Polymers Containing Fused Azomethine-Boron Complexes
Shunsuke Ohtani, Masayuki Gon, Kazuo Tanaka, Yoshiki Chujo
- 2Pe021 Synthesis and property of liquid crystalline disubstituted polyacetylenes
Kyoka Komaba, Masashi Otaki, Hiromasa Goto

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 2Pf022 Surface Modifications of Highly Cross-linked Macroporous Polystyrene Particles by Coating with Hydrophilic Polymer
Ken Yasue, Fumihiko Kawauchi, Aoshima Masahiro, Watanabe Masaru, Gotoh Yasushi
- 2Pe023 Complex formation and its Stimuli-responsivity of Entirely Ionic Diblock Copolymers Having Sulfobetaine
Dongwook Kim, Hideki Matsuoka, Yoshiyuki Saruwatari
- 2Pf024 Precise control of porous poly(divinylbenzene) particle surface by atom transfer radical polymerization
Arisa Yashiro, Michinari Kohri, Tatsuo Taniguchi, Keiki Kishikawa, Takashi Karatsu

- 2Pe025 Synthesis of Cyclic Poly(Ethylene Glycol) and Stabilization of Gold Nanoparticles
YuBo Wang, Takuya Tamamoto
- 2Pf026 Synthesis and characterization of stimuli-responsive behavior of double betaine block copolymer PGLBT-b-PSPE and investigation of Hofmeister effect on aqueous solution
Jongmin Lim, Hideki Matsuoka, Yoshiyuki Saruwatari
- 2Pe027 Influence of the surface hydroxyl functional group against the barnacle settlement
Ai Momose, Yuta Segawa, Takayuki Murosaki, Yuji Hirai, Yasuyuki Nogata, Masatsugu Shimomura
- 2Pf028 Synthesis of end-functionalized amphiphilic block polymers and preparation of polymer particles containing magnetic nanoparticles
Sadatoshi Heiguchi, Michinari Kohri, Tatsuo Taniguchi, Keiki Kishikawa, Takashi Karatsu
- 2Pe029 Preparation of Liquid Crystal Nanocapsules by Polymerization of Emulsion Monomer Droplets Emulsified with Amphiphilic Block Polymers as A Surfactant
Reina Kojima, Michinari Kohri, Tatsuo Taniguchi, Keiki Kishikawa, Takashi Karatsu, Eiji Okabe, Fumitaka Kondo
- 2Pf030 Effect of evaporation rate on formation of LC polysaccharide membrane by meniscus splitting.
Miki Yamashita, Kosuke Okeyoshi, Tatsuo Kaneko
- 2Pe031 Specific ion effect and salt concentration dependence on polybetaine brush at the air/water interface
Ryota Matsuda, Koichiro Mae, Hideki Matsuoka, Yoshiyuki Saruwatari
- 2Pf032 Preparation of high intensity upconversion nanoparticle by composition of Au nanoparticle
Ayane Koyama, Tatsuo Taniguchi, Takashi Karatsu

Foyer, Frontier Research in Applied Sciences Building

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 2Pe033 Thermo-responsivity, salt effect and specific ion effect of polymer micelles containing sulfobetaine
Shinya Hayashi, Hideki Matsuoka, Yoshiyuki Saruwatari
- 2Pf034 Shape change of nonspherical fine particles prepared by dispersion polymerization of liquid crystalline monomer containing azobenzene moiety.
Tatsuro Aki, Hiroaki Shimomoto, Eiji Ihara, Tomomichi Itoh
- 2Pe035 Heterocoagulation between polymer particles carrying phosphonium groups and nickel-plated particles
Takumi Chikazawa, Tomonao Naruhashi, Michinari Kohri, Tatsuo Taniguchi, Keiki Kishikawa, Takashi Karatsu
- 2Pf036 Meniscus splitting: preparation of supra-polysaccharide membrane having uniaxial orientation toward hybrid materials.
Kittiphong Thongsuk, Kosuke Okeyoshi, Tatsuo Kaneko
- 2Pe037 Functionalization of beta-diketone group-containing polymer particles by doping of lanthanide elements
Mikiya Yamamoto, Michinari Kohri, Tatsuo Taniguchi, Keiki Kishikawa
- 2Pf038 Polymer grafting from chitosan-coated particles and construction of colloidal gels for structural coloration
Rira Fukasawa, Yuuka Fukui, Keiji Fujimoto

- 2Pe039 Morphology Control of Cellulose Particles Having Hollow Structure
Taro Omura,Kaori Imagawa,Toyoko Suzuki,Hideto Minamai
- 2Pf040 Adhesion of Fluoropolymer/metal Utilizing Poly(ionic liquid)
Junichi Tsukiji,Takanori Nakano,Chihiro Hayashi,Hideto Minami
- 2Pe041 Preparation of silicone particles by click reaction and silicone/PBzMA composite particles
Ken Mukai,Yuki Fujii,Mitsuyoshi Yamane,Hideto Minami
- 2Pf042 Construction of colloidal foams from chemically modified core-shell particles
Jun Oura,Yuuka Fukui,Keiji Fujimoto
- 2Pe043 Effects of anisotropy and assembled structure of artificial melanin particles on structural colors
Yuki Tamai,Michinari Kohri,Tatsuo Taniguchi,Keiki Kishikawa
- 2Pf044 Morphology Control of Janus Particles for Colloidal Structure
Daiki Tsujita,Shuichiro Mizuhara,Taro Omura,Hideto Minami
- 2Pe045 Novel optical tweezers using nano-structured silicon: assembly formation of a pyrene-labelled polymer in water
Kenta Ushiro,Tatsuya Shoji,Taka-Aki Asoh,Yasuyuki Tsuboi
- 2Pf046 Non-spherical polymer particles prepared by shell-selective photo-induced crosslinking
Yukiya Kitayama,Toshifumi Takeuchi
- 2Pe047 Arrangement of inorganic nanoparticles in polymer Janus particles
Yutaro Hirai,Hiroshi Yabu
- 2Pf048 Effect of polar interactions on the initial stage in thin film growth of long-chain molecules
Ryosuke Matsubara,Yukihiro Ozaki,Haruki Takeda,Atsushi Kubono
- 2Pe049 Novel fabrication method of surface relief using dewetting phenomenon
Kouta Marumoto,Taishi Sonoda,Takashi Ubukata
- 2Pe051 Evaluation from physical and structural properties of epoxy adhesive deteriorated by heat
Yui Tachibana,Shunsuke Kametani,Yoshimichi Namai
- 2Pf052 Evaluation of hydrophilic and hydrophobic properties for variable polymer materials with low specific surface area
Shunsuke Kametani,Yoshimichi Namai
- 2Pe053 Evaluation of surface elastic modulus for polymer alloys at low temperature by variable temperature atomic force microscope (VT-AFM)
Tomonori Nakashima,Yoshimichi Namai

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 2Pe055 Brownian motion of carbon nanotubes in polymer melt
Riho Nishikawa,Masayuki Yamaguchi
- 2Pf056 Structure development under shea flow for polycarbonate/poly(methyl methacrylate) blends
Jitsuhiro Date,Takumi Sako,Masayuki Yamaguchi
- 2Pe057 Interface properties of filler compound rubber made using rotaxane-shaped coupling agents
Shoko Mori,Takahiro Mabuchi,Kennichi Uesaka,Toyokazu Tsutsuba,Toshikazu Takata
- 2Pf058 Effects of dynamic bonds in hard and soft phases on the mechanical properties of thermoplastic elastomers
Saki Kawana,Shuya Nakai,Shintoro Nakagawa,Naoko Yoshie
- 2Pe059 Localization of carbon nanotubes in polycarbonate / polyethylene blends

Takeharu Tamaki, masayuki Yamaguchi

- 2Pf060 Functionalization of Polyolefins via Permanent Antistatic Agent and Light Stabilizer
Tatsuhito Nakamura, Chun Cui, Kazukiyo Nomura, Taro Mitsudera
- 2Pe061 Polybenzoxazines derived from polyfunctional phenols
Shunichiro Matsumura, Tsubasa Osawa, Tsutomu Takeichi, Takehiro Kawauchi
- 2Pf062 Durability Improvement in Transparency against Heat and Light of Polyimide Films Containing Bis-spirobornane Structure
Tomohiro Mizuta, Hiroaki Ushioda, Hiroki Ozawa, Kazuyuki Hiraoka, Toshikiko Matsumoto
- 2Pe063 Low-modulus Polyimides (14). Improvement of Adhesion Strength with Copper Foil
Kota Suzuki, Mayumi Saeki, Junichi Ishii, Masatoshi Hasegawa
- 2Pf064 Organo-Soluble Low CTE Polyimides (7). Applications as Cover Layer Materials in Flexible Printed Circuit Boards
Fumiya HAYASHI, Naoki YOKOYAMA, Junichi ISHII, Masatoshi HASEGAWA
- 2Pe065 Solution-processable Colorless Polyimides Derived from Hydrogenated Pyromellitic Dianhydride (H-PMDA) (6). Effect of Novel Diamines on Improvement of Low Thermal Expansion Property.
Katsuki ICHIKAWA, Junichi ISHII, Masatoshi HASEGAWA
- 2Pf066 Solution-processable Transparent Polyimides (4). Composites with Cellulose Nanofibers
Yuri NAGASAWA, Junichi ISHII, Masatoshi HASEGAWA
- 2Pe067 Solution-processable Colorless Polyimides Derived from Novel Cycloaliphatic Tetracarboxylic Dianhydride
Katsuhisa HOSHINO, Hiroki SATO, Junichi ISHII, Masatoshi HASEGAWA
- 2Pf068 Solution-processable Colorless Polyimides Obtained from Bisbornanetetracarboxylic Dianhydride. Improvement of Low Thermal Expansion Property
Takuya MIYAMA, Junichi ISHII, Masatoshi HASEGAWA, Daisuke WATANABE

S16. Design of Bio-polymer Interfaces for Medical Applications

- 2Pe071 Synthesis of novel zwitterionic polymers containing tertiary sulfonium group for biomedical applications.
Ryutaro Imamura, Hideharu Mori
- 2Pf072 Biocompatible/anti-biofouling copolymer consisting of 1-hexene and vinyl alcohol
Tsuyoshi Ando, Masayasu Totani, Nobuo Murase, Kayo Terada, Masao Tanihara, Yoshito Tanaka, Shota Shibutani, Takuma Kawabe, Haruhiko Mohri
- 2Pe073 Investigation of antibacterial property of cross-linking phospholipid polymer film under flow conditions
Zhou Lu, Keiichiro Kushiro, Norifumi Isu, Madoka Takai
- 2Pf074 Preparation of polydopamine-modified polycaprolactone nanosheets for intestinal anastomosis
Isao Takahashi, Kento Yamagishi, Hizuru Amano, Shinji Takeoka, Toshinori Fujie
- 2Pe075 Development of new hybrid extracellular vesicles equipped with functional membrane proteins

Raga Ishikawa, Shosuke Yoshida, Shin-ichi Sawada, Sada-atsu Mukai, Yoshihiro Sasaki, Kazunari Akiyoshi

- 2Pf076 Cell separation using thermoresponsive polymer modified beads as packing materials of solid phase extraction column
Kenichi Nagase, Yuki Nagata, Goro Edatsune, Daimu Inanaga, Aya Akimoto, Hideko Kanazawa
- 2Pe077 Cell capture of lymphocytes using antibody-immobilizing filter
Tsuyoshi Kimura, Naoko Nakamura, Yoshihide Hashimoto, Shimon Sakaguchi, Shunsaku Kimura, Akio Kishida
- 2Pf078 Thermoresponsive core-corona type particles having phenylboronate groups at the distal end of the corona for diagnosis of glucose level
Akihiko Kikuchi, Kenta Yonezu, Taka-Aki Asoh, Ryo Ishihara
- 2Pe079 Preparation and characterization of polyion complex micelles made from diblock copolymer having membrane destructivity with pH change.
Ken GOTOH, Yusuke ONUMA, Syuuhei KOMATSU, Ryo ISHIHARA, Glen S. Kwon, Akihiko KIKUCHI
- 2Pe081 Design of Self-assembling β -sheet Peptide for Tissue Engineering
Daisuke Fujii, Ryouzuke Yokokawa, Sachiro Kakinoki, Yoshiaki Hirano
- 2Pf082 Adipose-derived stem cells delivery using temperature-responsive biodegradable injectable hydrogels for treatments of ischemic heart diseases
Yuta Yoshizaki, Hiroki Takai, Soichiro Fujiwara, Masaaki Ii, Hiroaki Uchida, Shintaro Nemoto, Akinori Kuzuya, Yuichi Ohya
- 2Pe083 Control of biodegradation behavior of nanofibers by their crystallinity
Eri Niyama, Koichiro Uto, Mitsuhiro Ebara
- 2Pf084 Design of surfaces on exosome-imprinted layers capable of cancer-related exosomes
Kisho Mori, Eri Takano, Hirobumi Sunayama, Yukiya Kitayam, Toshifumi Takeuchi

S15. Structural Control-based Functionalization of Biomacromolecules

- 2Pe087 Protecting-group-free synthesis of glycopolymer-type macromonomers by cationic polymerization and click chemistry for the preparation of carbohydrate-decorated polymer particles
Tomonari Tanaka, Nguyen Minh Tan, Jin Motoyanagi, Masahiko Minoda
- 2Pf088 Development of novel fluorescent probe composed of acyclic artificial nucleic acid with fluorescent nucleobase analogues
Keiji Murayama, Hiroyuki Asanuma
- 2Pe089 Ultrafast Energy Transfer in Photosynthetic Antenna Complexes bearing Artificial Chromophores in Lipid Bilayer Phase
Akari Goto, Yusuke Yoneda, Masaharu Kondo, Hiroshi Miyasaka, Yutaka Nagasawa, Takehisa Dewa
- 2Pf090 Mechanical Deformation of Microtubule by Compressive Stress and its Effect on the Biomolecular Motor-based Cargo Transportation
Syeda Rubaiya Nasrin, Arif Md. Rashedul Kabir, Kazuki Sada, Akira Kakugo
- 2Pe091 Development of chiral amplification system in aqueous solution by using artificial nucleic acid
Keiji Nishikawa, Hiromu Kashida, Hiroyuki Asanuma
- 2Pf092 Synthesis of novel cyclic anthraquinone derivatives and its interaction with tetraplex DNA
Daiki Wakahara, Shinobu Sato, Shigeori Takenaka

- 2Pe093 Synthesis of bis-cyclic naphthalene diimide and its interaction with G-quadruplex
Ryusuke Takeuchi, Tingting Zou, shinobu Sato, Shigeori Takenaka

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 2Pf096 Evaluation of integrin cross-talks among different integrin subtypes using mixed peptide-chitosan matrix
Kentaro Hozumi, Yui Teranishi, Sayaka Enomoto, Fumihiko Katagiri, Yamato Kikkawa, Motoyoshi Nomizu
- 2Pe097 Synthesis and structural analysis of sequential peptides leading to their applications to functional molecules
Moe Nakamoto, Yoshihito Inai
- 2Pf098 Preparation and characterization of the blend films of silk and fluoropolymer with barrier properties to water molecules
Nao Ifuku, Keiji Numata
- 2Pe099 Theoretical predictions of structural properties for a chain-branched amide polymer chain
Yoshihito Inai
- 2Pf100 Structural analysis of a dendrimer molecule containing a specific amino acid, and discussion about its functionality
Nanase Moriguchi, Yoshihito Inai
- 2Pe101 Antibacterial peptides in lactic acid bacteria of fermented mare's milk
Oyundelger Ganzorig, Takashi Yoshida
- 2Pf102 Theoretical design and synthesis of a molecular backbone based on peptide units bearing a specific amino acid.
Naoki Yamada, Yoshihito Inai
- 2Pe103 Enzymatic degradation of spider dragline silk
Ayaka Tateishi, Keiji Numata
- 2Pf104 Construction of a database of heme proteins for analysis of relationship between heme distortion and function
Hiroko X. Kondo, Masanori Fujii, Yusuke Kanematsu, Yasuhiro Imata, Yu Takano, Takashi Yoshida
- 2Pe105 Evaluation of cargo ability of the cell penetration PG-surfactant
Natsumi Sumito, Shinya Tsukiji, Toshihisa Mizuno
- 2Pf106 Development of synthetic ligands using polyamine towards pharmaceutical antibody purification
Nanae Yamashita, Masashi Maruyama, Hiroshi Yoshida, Fumihiko Kawauchi, Yasushi Goto
- 2Pe107 Enzyme inhibition behavior of cationic polyhydroxyurethane
Kohei Sato, Yoshimasa Matsumura, Hiroyuki Furusawa, Shun-ichi Matsuura, Bungo Ochiai
- 2Pf108 Construction and characterization of the membrane-protein-encapsulated fibermats using the novel solubilization surfactant having post-crosslinkable polymer chain
Taro Shimamoto, Tomoyasu Noji, Keisuke Kawakami, Takehisa Dewa, Nobuo Kamiya, Shigeru Ito, Toshihisa Mizuno
- 2Pe109 Introduction of metal nanoparticles inside microtubule using Tau-derived peptides
Mayuki Yamada, Takahisa Yamamoto, Hiroshi Inaba, Arif Md. Rashedul Kabir, Akira Kakugo, Kazuki Sada, Kazunori Matsuura
- 2Pf110 Construction of photoresponsive artificial viral capsid self-assembled from β -annulus peptide bearing azobenzene in the backbone

Shogo Fujiwara, Seiya Fujita, Hiroshi Inaba, Kazunori Matsuura

- 2Pe111 Synthesis and Structures of Expanded Poly(α -amino acid)s Containing Bis(pyridine)silver(I) Moieties
Kyoko Tsubouchi, Taka-aki Okamura, Kiyotaka Onitsuka
- 2Pf112 Preparation of a novel antigen by introducing Hoveyda-Grubbs catalyst to carrier protein
Shiho Okabayashi, Yoshinori Takashima, Takashi Matsuo, Hiroyasu Yamaguchi
- 2Pe113 Tuning of pH-response properties of carboxylated poly-L-lysine by side chain spacer structure
Yasumichi Yazaki, Eiji Yuba, Atsushi Harada
- 2Pf114 Fabrication of electrospun drug loaded core-shell nanofibers and functional evaluation using cells
Yuki Asano, Yuto Ozeki, Akiko Obata, Toshihiro Kasuga, Toshihisa Mizuno
- 2Pe115 Photoinduced Hydrogen Production by Light-harvesting Complex of Photosystem II (LHCII)
Haruka Matsuda, Masaharu Kondo, Tomoyasu Noji, Mamoru Nango, Takehisa Dewa
- 2Pf116 Evaluation of impacts of liner-type PG-surfactants, exhibiting antibacterial activity, on bacterial cell membrane structures and synthesis of novel cyclic-type PG-surfactants
Ryosuke Kimura, Atsushi Miyagawa, Hatsuo Yamamura, Toshihisa Mizuno
- 2Pe117 Development of Protein Purification with A Novel Reagent
Yusuke AOKI, Adam WAWRO, Takahiro MURAOKA, Kazushi KINBARA
- 2Pf118 Design and function of peptide polymer vesicle showing selective molecular permeability
Shin Hirose, Tomoki Nishimura, Shinichi Sawada, Yoshihiro Sasaki, Kazunari Akiyoshi
- 2Pe119 Cell culture onto the fibermats, encapsulating the fibroblast growth factor FGF2
Shogo Kihira, Akiko Obata, Toshihiro Kasuga, Toshihisa Mizuno
- 2Pf120 Investigation of cell-cell adhesion using trans-splicing reaction of split intein
Maiko Tomita, Akinobu Nakamura, Tsuyoshi Takahashi, Shinya Tsukiji, Toshihisa Mizuno

Entrance Hall, Frontier Research in Applied Sciences Building

Fri. Sep 14

Presentation Time

<a = 10:20~11:00>

<b = 11:00~11:40>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 3Pa001 Precise synthesis of poly(L-lactic acid) and poly(trimethylene carbonate) using aromatic carboxylate salts as a catalyst
Kaoru Takojima, Tatsuya Saito, Takuya Isono, Takuya Yamamoto, Kenji Tajima, Toshifumi Satoh
- 3Pb002 Cationic polymerization of dibenzofulvene leading to a pi-stacked polymer
Hassan Nageh, Yue Wang, Tamaki Nakano
- 3Pa003 Controlled Radical, Anionic, and Cationic Polymerizations of Bio-Based Styrene Derivatives
Hisaaki Takeshima, Kotaro Satoh, Masami Kamigaito

- 3Pb004 Living Cationic Polymerization of Vinyl Ether Derived from Naturally-Occurring Furfural
Tomoaki Yokota, Takenori Nishida, Mineto Uchiyama, Kotaro Satoh, Masami Kamigaito
- 3Pa005 Asymmetric Living Cationic Polymerization of Benzofuran via Reversible Chain-Transfer Mechanism
Daichi WATANABE, Mineto UCHIYAMA, Kotaro SATOH, Masami KAMIGAITO
- 3Pb006 Synthesis of poly (amino acid)s by ring-opening polymerization of dithio-NCA
Mei Uchiyama, Shin-ichi Matsuoka, Koji Takagi, Masato Suzuki
- 3Pa007 Vinyl polymerization polar monomers catalyzed by Lewis pairs in water
Atsushi Shimizu, Momoko Takei, Shin-ichi Matsuoka, Masato Suzuki
- 3Pb008 Polymerization of Cyclopentadiene Catalyzed by Various Lewis Pairs
Kazumasa Mori, Shin-ichi Matsuoka, Masato Suzuki
- 3Pa009 Copolymerization of Cyclic Esters and Acrylates.
Makoto Ryukan, Shin-ichi Matsuoka, Masato Suzuki
- 3Pb010 Anionic ring-opening polymerization of thioglycolide and thiolactide
Aya Watanabe, Shin-ichi Matsuoka, Koji Takagi, Masahito Suzuki
- 3Pa011 Synthesis and properties of poly(β -methyl vinyl ether) with a bulky substituent
Hiroataka Sato, Sinnji Watanabe, Takeshi Namikoshi
- 3Pb012 Living cationic polymerization of vinyl ether containing *tert*-butyl sulfide
Yuhei Watanabe, Atsushi Arisawa, Shinji Watanabe, Takeshi Namikoshi
- 3Pa013 Synthesis of Cyclic Vinyl Polymer by N-Heterocyclic Carbene
Yuhei Hosoi, Akinori Takasu
- 3Pb014 Controlling over stereoregularity in polymer with polyhedral oligomeric silsesquioxane using living anionic polymerization method
Tomoyasu Hirai, Satoshi Kuretani, Teruaki Hayakawa, Syuji Fujii, Yoshinobu Nakamura
- 3Pa015 Cationic Ring-Opening Copolymerization of Trioxane and 1,3-Dioxepane Derivatives
Chiaki Itoh, Takahiro Uno, Masataka Kubo, Takahito Itoh, Hatsuhiko Harashina
- 3Pb016 Stereoselective ring-opening polymerization of rac-lactide using thiourea and guanidine catalysts
Kohei Toda, Miyuki Oshimura, Tomohiro Hirano, Koichi Ute
- 3Pa017 Cationic polymerization utilizing unusual stabilization of propagating cations by solvate ionic liquid
Ryotaro Kizu, Tomohiro Hirano, Miyuki Oshimura, Koichi Ute
- 3Pb018 Synthesis and characterization of new polymer based on 3-hydroxybutyric acid
Yutaro Hirata, Haruo Nishida, Kubra Eksiler
- 3Pa019 Synthesis of Block Copolymers by Living Cationic Polymerization Aimed at the Formation of Supramolecular Networks
Masaya Murata, Kira B. Landenberger

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 3Pb020 Multi-scale simulation for formation process of organic polymer aerogels
Shigenori Matsumoto, Atsuko Ueda, Yuji Inui, Tatsuya Makino, Yuzuru Kobayashi, Takahiro Hidaka

- 3Pa021 Multi-scale simulation for structural design of organic polymer aerogels
Atsuko Ueda, Shigenori Matsumoto, Yuji Inui, Tatsuya Makino, Yuzuru Kobayashi, Takahiro Hidaka
- 3Pb022 Thermal curing reaction using epoxy compounds with calixarene skeletons and the properties of the cured resin
Morio Yonekawa, Hajime Kimura, Keiko Ohtsuka
- 3Pa023 Physical properties of Poly(vinyl alcohol) (PVA-H) hydrogel prepared by using hot pressing method by addition of salt
SEIA ONOZUKA, KAZUAKI MTSUMURA
- 3Pb024 Self-assembled structure and mechanical properties of thermoplastic elastomer made of PR derivative
Ryota Kobayashi, Rina Maeda, Koichi Mayumi, Hideaki Yokoyama, Kohzo Ito
- 3Pa025 Relationship between network structure and properties of epoxy resin in coarse-grained models
Naoyuki Shoji, Takefumi Ymashita
- 3Pb026 Modification of PVA composite hydrogel as artificial joint cartilage material by hot pressing method
Yibo Zhao, Kazuaki Matsumura
- 3Pa027 Mechanical properties of composite organogels prepared from poly(ethylene glycol) diacrylate and polyurethane foams
Yuta Saito, Keisuke Wakayama, Mitsuhiro Shibata, Toshiaki Shimasaki, Naozumi Teramoto
- 3Pb028 Structure and mechanical property of polyrotaxane/clay composite gel with different ring coverage ratio
Takeya Aoki, Koichi Mayumi, Lan Jiang, Rina Maeda, Hideaki Yokoyama, Kohzo Ito
- 3Pa029 Synthesis and properties of porous polymers using polyaddition reaction of multifunctional acrylate and diamine or dithiol compounds
Shun Fujioka, Daisuke Inose, Naofumi Naga, Hassan Nageh, Tamaki Nakano
- 3Pb030 Synthesis and properties of porous polymers using thiol-ene reaction of multifunctional thiol and PEG diacrylate compounds.
Naofumi Naga, Kazumasa Moriyama, Hassan Nageh, Nakano Tamaki, Kumkum Ahmed, Hidemitsu Furukawa
- 3Pa031 Cross-linked Structures and Mechanical Properties of Elastomers Having Polypeptide Crosslinker
Yuunosuke Tsuboi, Shogo Nobukawa, Hideki Sugimoto, Katsuhiko Inomata
- 3Pb032 Study of heterogeneity under elongation and strain-induced crystallization of isoprene rubber
Ryusei Nomura, Xiaobin Liang, Hitoshi Iwabuki, Makiko Ito, Ken Nakajima

Foyer, Frontier Research in Applied Sciences Building

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 3Pa033 Effect of Solvent on Deformation and Fracture Behaviors of Double Network Gels
Yong Zheng, Takahiro Matsuda, Tasuku Nakajima, Jian Ping Gong
- 3Pb034 Preparation and mechanical properties of bacterial cellulose gels reinforced by graft polymerization of acrylic acid and subsequent calcification
Aki Kurita, Kohei Aochi, Mitsuhiro Shibata, Shimasaki Shimasaki, Naozumi Teramoto

- 3Pa035 The preparation and characterization of physical gels consisting of syndiotactic polystyrene and ionic liquids.
Naoto Yoshida, Mayu Yokoyama, Takumi Sano, Hideyuki Itagaki
- 3Pb036 Preparation and Physical Properties of Thermoresponsive Gel Using Cellulose Derivative Having Polymerizable Functional Group
Yuuki Ehara, Toru Hoshi, Takao Aoyagi
- 3Pa037 Novel method to prepare hydrophobic cyclodextrin-based supramolecular material
Junsu Park, Yoshinori Takashima, Akira Harada, Hiroyasu Yamaguchi
- 3Pb038 Biaxial Extension Behavior of Polyrotaxane Gels with Low Densities of Threaded Rings
Takuma Aoyama, Kazuaki Kato, Kohzo Ito, Kenji Urayama
- 3Pa039 Structure and physical properties of polyrotaxane hydrogel cross-linked with protein
Rui Yoshioka, Rina Maeda, Hideaki Yokoyama, Kohzo Ito
- 3Pb040 Analysis of Crack Propagation of Double Network Gels
Ye Zhang, Kazuki Fukao, Takahiro Matsuda, Takayuki Kurokawa, Tasuku Nakajima, Katsuhiko Tsunoda, Jian Ping Gong
- 3Pa041 Preparation of supramolecular hydrogels with cyclodextrin and various hydrophobic molecules in their side chain and their mechanical properties.
Subaru Konishi, Yoshinori Takashima, Akira Harada, Hiroyasu Yamaguchi
- 3Pa043 Evaporation induced self-aggregation of water-dispersed cellulose nanofibers
Shogo Izakura, Takaaki Kasuga, Kojiro Uetani, Hirotaka Koga, Masaya Nogi
- 3Pb044 Study of Polymer Morphology on Thermal Rheological Fluid
Taiga Hiromori, Sho Hirai, Ryoko Nakano, Hiroshi Sekiguchi, Shigeru Yao
- 3Pa045 Effect of Linear-Polyelectrolyte Rigidity on Charged-Dendrimer/Linear-Polyelectrolyte Complexation
Mitsuru Ishida, Susumu Fujiwara, Tomoko Mizuguchi, Masato Hashimoto
- 3Pb046 Analysis of fracture of cross-linked rubber by coarse-grained molecular dynamics simulation
Yasuhito Karino
- 3Pa047 A study of stretched exponential relaxations focusing on the power laws and analysis using Shannon entropy
Hirokazu Maruoka, Akio Nishimura, Keisuke Hatada
- 3Pb048 Cavitation in Thin Film of Amorphous Polymers from the Static Melt Induced by Thermal Treatment
Masato Hashimoto, Tomoko Mizuguchi, Susumu Fujiwara
- 3Pa049 Effects of the cross-linker density on the flow curve of the aqueous dispersion of poly(*N,N*-dimethylacrylamide)
Takamasa Yoshino, Kanae Mouri, Akihiko Takada, Yukiteru Katsumoto
- 3Pb050 Effect of Metal Nanoparticle Deposition on LCST Behavior of PNIPAM-Polymerizable Ionic Liquid Copolymers
Surabhi Gupta, Noriyoshi Matsumi
- 3Pa051 In Situ Analysis of Sulfur Cross-Linking Reaction of Isoprene Rubber by TD-NMR
Kosuke Miyaji, Preeyanuch Junkong, Yuko Ikeda

- 3Pb052 Structural Estimation of Platonic Micelle with Computational Chemistry
Tadashi Okobira, Ryo Takeuchi, Naoto Yagi, Shota Fujii, Kazuo Sakurai
- 3Pb054 Material design of poly(methyl methacrylate) with high glass transition temperature
Asae Ito, Masayuki Yamaguchi
- 3Pa055 The uptake behavior of methanol vapor and water vapor for polyimide films
Hiroyuki Hosomi, Shigeru Yoshimoto, Masaaki Takeda
- 3Pb056 Brill Transition and Melting Temperatures of Nylon Crystals: Crystallization Temperature Dependence
Makoto Ezumi, Akihiko Toda, Shuichi Maeda, Tomoyuki Nakagawa, Gaku Kono, Koji Nozaki
- 3Pa057 First-Principles Study of electronic states of poly (vinylidene fluoride) crystal polymorphisms
Chikara Harada, Hideo Horibe, Kazuyoshi Ueda
- 3Pb058 XPCS study on molecular dynamics of multi-porous polymer film
Syota Soeno, Takahiko Kawai, Yuhei Tsuchiya, Shinichi Kuroda, Tomoyuki Nemoto, Shunsuke Koido, Taiki Hoshino

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 3Pa061 Evaluation of new materials
Risa Fuji
- 3Pb062 Grafting of polydimethylsiloxane onto cellulose nanofibers
Kento ICHIKAWA, Norio TSUBOKAWA, Takeshi YAMAUCHI
- 3Pa063 Functional hybrid material between luminescent-protein and cellulose
Hideto Hoshino, Koichi Uegaki
- 3Pb064 Fabrication of Composite Material of Cellulose Nanofiber / (Meth)acrylic Polymer
Miyu Yoshida, Katsuhiko Yamamoto, Jun Takada
- 3Pa065 Preparation and Mechanical Properties of Surface Modified Cellulose Nanofiber/Epoxy Composites
Nao Mizuno, Kenji Nagata, Shotaro Sago, Miduki Shimada
- 3Pb066 Spinning of chitosan fiber coated with TEMPO-oxidized cellulose nanofiber
Kensuke Nishida, Ryosuke Ozakiya, Daugkamol Dechojarassri, Takeo Kitamura, Hiroyuki Hashimoto, Tetsuya Furuike, Hiroshi Tamura
- 3Pa067 Evaluation of physical properties of chitosan fiber coated with TEMPO-oxidized cellulose nanofiber
Ryosuke Ozakiya, Kensuke Nishida, Duangkamol Dechojarassri, Takeo Kitamura, Hiroyuki Hashimoto, Tetsuya Furuike, Hiroshi Tamura
- 3Pb068 Physical properties of poly(lactic acid) nanocomposites with cellulose nanocrystals
Homin Kang, Dae Su Kim
- 3Pa069 Crystallization of poly(lactic acid) nanocomposites with cellulose nanocrystal
Homin Kang, Dae Su Kim
- 3Pb070 Effect of Addition of Cellulose Nanofibers on Electrical and Mechanical Properties of Carbon Nanotubes Filled PVA Composites
Shotaro Sago, Kenji Nagata, Nao Mizuno
- 3Pa071 Material recycling behavior of cellulose nanofibers reinforced plastics
Yoko Homma, Yumiko Saito, Hiroaki Okumura, Hiroyuki Yano
- 3Pb072 Effects of pulping condition on the mechanical properties of CNF reinforced PA6 manufactured by pulp direct Kneading method "Kyoto Process"

Yoko Osawa, Haruo Omura, Hiroaki Okumura, Takashi Date, Yuko Igarashi, Fumiaki Nakatsubo, Hiroyuki Yano

- 3Pa073 Physical properties of epoxidized soybean oil modified epoxy resins
Yejun Woo, Daesu Kim
- 3Pb074 Improvement of mechanical property of a metal-organic framework by polymer introduction
Kayako Honjo, Tomoya Iizuka, Takashi Uemura
- 3Pa075 Toughening Soft Composite Materials by Macroscopic Sacrificial Bonds
Tsuyoshi Okumura, Riku Takahashi, Daniel R. King, Tasuku Nakajima, Takayuki Nonoyama, Takayuki Kurokawa, Jian Ping Gong
- 3Pb076 Anisotropic Bilayer-hybrid Gels: Fabrication and Water Induced Rubbery-Glassy Transition
Muhammad ILYAS, Md Anamul HAQUE, Takayuki KUROKAWA, Tasuku NAKAJIMA, Takayuki NONOYAMA, Jian Ping GONG
- 3Pa077 Effect of biopolyimide molecular design on their silica hybrids thermo-mechanical, optical and electrical properties
Sumant Dwivedi, Shigeki Sakamoto, S Kato, Tetsu Mitsumata, Tatsuo Kaneko
- 3Pb078 Phase Structure Control and Thermal Conductivity of Nylon / ABS Composites Filled With Boron Nitride
Nobuyuki Nagase, Kenji Nagata, Shotaro Ishimoto, Kazumi Ueda
- 3Pa079 Electro Thermomechanical Properties of Conducting Polymer:Shape Memory Polymer Composites
YingJun An, Hidenori Okuzaki
- 3Pb082 Modification of mediator onto porous carbon by radiation-induced graft polymerization of GMA
Ryo Suzuki, Tatsuya Takarada, Toshifumi Tojo, Tatsuo Aikawa, Isao Shitanda, Takeshi Kondo, Makoto Yuasa
- 3Pa083 Effect of nitrogen content of cathode catalysts for polymer electrolyte fuel cell on oxygen reaction activity
Shota Shingai, Shun Miyata, Kento Arai, Haruka Nakamura, Tsukasa Ichikawa, Izuru Kobayashi, Nobukatsu Nemoto, Yudai Kitagawa, Masaji Akimoto, Kazuto Umezu
- 3Pb084 Preparation of anhydrous proton conductor consisting of lignin
Misaki Takeda, Masanori Yamada
- 3Pa085 Design of porous structures of carbonized nanocellulose paper for supercapacitor electrodes
Daiki Fukushima, Kojiro Uetani, Masaya Nogi, Hirotaka Koga
- 3Pb086 Advancement in performance of solid polymer electrolyte for secondary batteries by utilizing nanofiber framework
Manabu Tanaka, Kaito Takenaka, Shun Nakazawa, Manjit Singh Grewal, Hiroyoshi Kawakami
- 3Pa087 Synthesis of extended conjugated carbonyl containing polymer negative electrode material for sodium ion battery
Kazuki Sugawara, Naoaki Yabuuchi, Makoto Miyasaka
- 3Pb088 Synthesis of new hole transporting polymers and their application to perovskite solar cells
Kanako Morita, Tsuyoshi Michinobu
- 3Pa089 Development of long wavelength absorbing organic semiconductor materials
Tomotsugu Takaya, Makoto Karakawa, Koushin Takahashi, Tetsuya Taima, Takahiro Yamaguchi, Yong-Young Noh, Melaku Mamo Dereje
- 3Pb090 Synthesis and Characterization of Anthrabisthiadiazole-Based Semiconducting Polymers

Yuki Yamada, Hiroki Mori, Yasushi Nishihara

- 3Pa091 Design, synthesis and optoelectronic properties of unsymmetric diketopyrrolopyrrole conjugated copolymers
Kenta Aoshima, Marina Ide, Akinori Saeki
- 3Pb092 Design of BIANODA type additive for high potential MNC Cathode in Li ion secondary batteries
Sai Gourang Patnaik, Raman Vedarajan, Noriyoshi Matsumi
- 3Pa093 TiO₂ Nanotubes/Functionalized Acetylene Black Composite Decorated with Pt Nanoparticles as Electrocatalyst for ORR in Aqueous and Nonaqueous media
Santhosh Bukka, Rajashekar Badam, Raman Vedarajan, Nori Yoshi Matsumi
- 3Pb094 Synthesis of Anthraquinone-Substituted Polyethers and Application to an Anode-Active Material for Organic-Air Secondary Battery
Tomoki Akahane, Miyu Suzuki, Hiroyuki Nishide, Kenichi Oyaizu
- 3Pa095 Fabrication of semitransparent organic solar cell with spray-coated silver nanowires electrode
Yukika Asano, Atsusi Aoki
- 3Pb096 Optimization of polymer thin film solar cell module for water electrolysis
Shinnosuke Watanabe, Shinpei Goto, Atsushi Aoki
- 3Pa097 Electrochemical Investigation and Application to Battery of Microspheres of Redox-active Polymers
Tamotsu Watanabe, Yasushi Maeda, Shinji Sugihara
- 3Pb098 Impact of Ester Groups on Photovoltaic Properties in a Thiazolothiazole-Naphthobisthiadiazole Polymer
Satoshi Kamimura, Kimihiro Komeyama, Hiroto Yoshida, Masahiko Saito, Itaru Osaka
- 3Pa099 Proton conductive ionic liquid polymer and monomer operable under low humidity condition
Yuki Takahashi, Keiji Shito, Toshihiko Arita, Akito Masuhara
- 3Pb100 Preparation of Nanoporous Palladium and their Electrocatalytic Activity
Satoshi Teraji, Hideyuki Nakanishi, Tomohisa Norisuye, Qui Tran-Cong-Miyata
- 3Pa101 Development of n-type semiconducting polymers with a novel electron-deficient imide-based π -electron system.
Yoshikazu Teshima, Kimihiro Komeyama, Hiroto Yoshida, Tsubasa Mikie, Masahiko Saito, Itaru Osaka
- 3Pb102 Electrochemical properties of poly(ethylene carbonate)-Mg salt electrolytes: Effects of addition of Li salt
Azlini Binti Ab Aziz, Yoichi TOMINAGA
- 3Pa103 Photon Upconversion through a Cascade Process of Two-Photon Absorption and Triplet-Triplet Annihilation
Wenting Gu, Shogo Izakura, Ryosuke Nishikubo, Akinori Saeki
- 3Pb104 Effect of Propylene carbonate on ionic conductance of Polyethylene carbonate polymer electrolyte
Kazuma Matsushita, Hirotsada Fujiwara, Shin Nishimura, Hiroaki Ono
- 3Pa105 Development of polypyrrole-coated capacitor electrode with honeycomb structure by MnO₂ nanoparticles.
Nobuhiro Shimamura, Ryuji Kanda, Yutaro Hirai, Hiroya Abe, Hiroshi Yabu, Akito Masuhara

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 3Pb108 AFM measurements of interactions between fibrinogen and its receptor with chemically modified probe
Yuichi Muraji, Yoko Koga, Yoshiyuki Ueno, Hiroaki Fujieda
- 3Pa109 Synthesis of ester free type Poly(trimethylene carbonate) derivatives and biocompatibility evaluation
Koichi Irikura, Charoensumran Preeyarad, Chanthaset Nalinthip, Hiroharu Ajiro
- 3Pb110 Protein detection using electric field induced phenomenon
Shun-ichi Abe, Takashi Kuwahara, Mizuki Kondo, Masato Shimomura
- 3Pa111 Application of macro-porous poly(3,4-ethylenedioxythiophene)films to enzyme electrodes
Hikaru Ishikawa, Takashi Kuwahara, Mizuki Kondo, Masato Shimomura
- 3Pb112 Characterization of laccase entrapped conducting polymer film
Shunosuke Kimura, Mamoru Kameda, Takashi Kuwahara, Mizuki Kondou, Masato Shimomura
- 3Pa113 Acetalized poly (vinyl alcohol) as antithrombogenic material
Xi Chen, Tetsushi Taguchi
- 3Pb114 Analysis of intermediate water by Soft X-ray emission spectroscopy and Terahertz spectroscopy
Daiki Murakami, Tomoya Ueda, Toshiki Sonoda, Kosuke Yamazoe, Jun Miyawaki, Yoshihisa Harada, Masaru Tanaka
- 3Pa115 Dynamic multi-cell patterning using photoactivatable polymers
Takahiro Kosaka, Satoshi Yamaguchi, Shin Izuta, Akimitsu Okamoto
- 3Pb116 Immobilization of heparin on polymeric substrate using hydrophobicity-imparting polylysine
Kazumi Nishimura, Matsumura Kazuaki, Nakaji-Hirabayashi Tadashi
- 3Pa117 Examination of function improvement in arterial embolic agent using thermal rheology
Kasumi Sanui, Sho Hirai, Ryoko Nakano, Hiroshi Sekiguchi, Norihisa Nitta, Shigeru Yao
- 3Pb118 Isotope Microscopic Evaluation of Bone Regeneration into Hydrogel
Yuki Suzuki, Takayuki Nonoyama, Lei Wang, Tsuda Tsuda, Ryuji Kiyama, Tomonori Yasuda, JianPing Gong
- 3Pa119 Preparation of PMEA Brushes with Controlled Grafting Density and Analysis of Protein Adsorption
Tomoya UEDA, Daiki MURAKAMI, Shingo KOBAYASHI, Masaru TANAKA
- 3Pb120 D-Aspartate detection using competition of oxygen consumption reaction between enzyme and conducting polymer film
Takashi Kuwahara, Shouta Uchiide, Hideyuki Suzuki, Masato Shimomura, Shouji Takahashi
- 3Pa121 Effect of side chain terminal group on blood compatibility and hydration structure of polymers synthesized via regioselective ROMP
Naoki FUJITA, Shingo KOBAYASHI, Masaru TANAKA
- 3Pb122 Development of light stimulation responsive drug eluting balloon and enhancement of hemocompatibility through PEGylation
Hayato Mizuno, Yasutaka Anraku, Ichiro Sakuma, Yuki Akagi
- 3Pa123 Preparation of immobilized template-assisted molecularly imprinted cavities for cancer marker proteins by post-imprinting modification
Tomohiko Hayashi, Hirobumi Sunayama, Eri Takano, Yukiya Kitayama, Toshifumi Takeuchi

Entrance Hall, Frontier Research in Applied Sciences Building
Presentation Time
<c = 13:20~14:00>
<d = 14:00~14:40>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 3Pc001 Effect of chiral substituents on the formation of supramolecular polymers with a higher order helical structure
Rika Takeya, Deepak Prabhu P., Shiki Yagai
- 3Pd002 Photocontrol over phase transition of supramolecular polymers
Kosuke Katayama, Shiki Yagai
- 3Pc003 Effect of alkylene linker on the self-assembly of perylene bisimide dyads
Riku Haibara, Shiki Yagai
- 3Pd004 Catenanes formation through self-assembling of toroidal supramolecular polymers
Seiya Higashiharaguchi, Yasuki Kato, Shiki Yagai, Tatsuo Taniguchi
- 3Pc005 Synthesis palladium-containing optically active metallacycles ligated with pyridine derivatives
Taichi Sotani, Yui Nishikawa, Tatsuya Ogawa, Yu Miyagi, Fumio Sanda
- 3Pd006 pi-Stacked and Unstacked Aggregates Formation of a Near-infrared Dye
Yue Wang, Rong Wang, Xinhua Wan, Tamaki Nakano
- 3Pc007 Control of Dendrimer Supramolecular Structures by Utilizing Intramolecular Potential Gradient
Ken Minagawa, Ken Albrecht, Narumi Miyata, Kimihisa Yamamoto
- 3Pd008 Helical organization of supramolecular polymer formed through self-assembly of tetrakisporphyrin
Naoka Fujii, Kei Maruyama, Toshiaki Ikeda, Takeharu Haino
- 3Pc009 Quantitative colorimetric molecular recognition of polycyclic aromatic hydrocarbons (PAH) derivatives by perylene diimide-based one-dimensional aggregates
Kosuke Kamiya, Masaya Okabe, Norifumi Fujita
- 3Pd010 A gelator dimer that can induce structural shift of fiber-based aggregates in a low molecular-weight gel
Noriko Matsunaga, Norifumi Fujita
- 3Pc011 Preparation and properties of coordination polymer gel from phenol derivative
Kenta Saito, Takahiro Kakuta, Tomoki Ogoshi, Tada-aki Yamagishi
- 3Pd012 Optical properties of non-spherical gold clusters induced by aggregation
Yusaku Hakoishi, Mizuho Sugiuchi, Yukatsu Shichibu, Katsuaki Konishi
- 3Pc013 Spontaneous Formation of One-Dimensional Molecular Chains in Columnar Liquid-Crystalline Phosphonium Salts with Hydrogen-Bonding Groups
Yuuka YOSHIDA, Akihiko KANAZAWA
- 3Pd014 Photo-induced supramolecular polymerization for construction of light-harvesting antenna model
Shogo Matsubara, Hitoshi Tamiaki
- 3Pc015 Synthesis and evaluation of Polyurethanes containing Polyrotaxane with controlled crosslinking point
Sasano Hajime, Hiroto Murakami
- 3Pd016 Mechanism analysis for chain-ring interconversion of m-phenyleneimine oligomer and function development of the macrocycles.
Yuki Anbo, Shuto Kudo, Yasuaki Kikuchi, Toshihiko Matsumoto

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 3Pd020 Developing of tough polyelectrolyte complexation gel with porous structure and the underwater adhesion
Kohei Murakawa, Ring Rao, Daniel King, Taolin Sun, Takayuki Kurokawa, Jian Ping Gong
- 3Pc021 Wear and Friction of Poly (vinyl alcohol) gel - Effect of Surface Roughness of Substrates
Shintaro Yashima, Haruna Takefuji, Masahiko Annaka
- 3Pd022 Self-toughening of Double Network Hydrogels by Using Bond Rupture-induced Radical Polymerization
Ryo Nanba, Takahiri Matsuda, Tasuku Nakajima, Takayuki Nonoyama, Takayuki Kurokawa, Jian Ping Gong
- 3Pc023 Relation of Freeze/Thaw Method and Concentration fluctuation in Frozen Polyacrylonitrile Solution under Gelation Process
Yutaka Tanaka, Daisuke Takenaka, Takeru Fujima
- 3Pd024 Stiff and Tough Physical Hydrogel with Excellent Watery Environment Tolerance
Chengtao Yu, Kunpeng Cui, Liang Chen, Takahiro Matusda, Jian Ping Gong
- 3Pc025 In-situ Small Angle X-ray Scattering of Double Network Hydrogels under Uni-axial Stretching
Kazuki Fukao, Takayuki Nonoyama, Tasuku Nakajima, Takayuki Kurokawa, Takahiko Kawai, JianPing Gong
- 3Pd026 Synthesis and Characterization of Polyurethane with Diol-Rotaxane Component
Jun Sawada, Toshikazu Takata
- 3Pc027 Toughening mechanism of tough and self-healing hydrogels
KUNPENG CUI, TAO LIN SUN, YA NAN YE, LIANG CHEN, Takayuki KUROKAWA, JIAN PING GONG
- 3Pd028 Theoretical Study of Thermoreversible Gelation of Water-soluble Polymers in Binary Mixed Solvents
Hiroyuki Kojima, Tsuyoshi Koga
- 3Pc029 Delayed Fracture of Polyampholyte Hydrogel with Hierarchical Structure
Xueyu Li, Kuipeng Cui, Taolin Sun, Honglei Guo, Takayuki Kurokawa, Jian Ping Gong
- 3Pd030 The Anisotropic Deformation of a Uniaxially Oriented Polyaspartate Hybrid Xerogel Induced by a Helix-sense inversion
Yosuke Mizuno, Hidemine Furuya
- 3Pc031 The challenge for improvement of the compressive properties of polyacrylamide hydrogels by the optimization of the crosslinker content.
Kotaro Yoshida, Mayu Arita, Mitsuhiro Shibata, Toshiaki Shimasaki, Naozumi Teramoto
- 3Pd032 Synthesis of Interpenetrating Polymer Networks by Simultaneous Gelation of acrylamides with Silicone Polymer Having Silanol Residue
Junta SANO, Nagisa YAMAMURA, Shigeki HABAUE

Foyer, Frontier Research in Applied Sciences Building

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 3Pc033 Extracting the mechanical behavior of a single polymer chain by analyzing the hysteresis of DN gels
Yukiko Takahashi, Takahiro Matsuda, Tasuku Nakajima, Tsutomu

Indei, JianPing Gong

- 3Pd034 Fabrication of Isochoric Hydrogels that mechanical properties does not change in large temperature range.
Keigo Fujioka, Takayuki Nonoyama, Honglei Guo, Hui Guo, Tasuku Nakajima, Takayuki Kurokawa, JianPing Gong
- 3Pc035 Magnetic alignment of nano-composite gel containing montmorillonite and its anisotropy
Masafumi Yamato, Kazumasa Komine, Takahiro Miyazaki, Hiroyoshi Kawakami
- 3Pd036 Molecular Mechanism of Toughness of Double Network Gels by Molecular Simulation
Ryuichi Hiraiwa, Tsuyoshi Koga
- 3Pc037 Nano-Rheological Properties of Soft Materials
Aoki Kawaguchi, Atsuomi Shundo, Yuji Yasukochi, Keiji Tanaka
- 3Pd038 Pyridine Isomer Effects on Physical Properties for Metallo-Supramolecular Polyesters Utilizing Pyridine Ligands
Keisuke Shibata, Mikihiro Hayashi, Akinori Takasu
- 3Pc039 Construction of artificial muscle using microtubules/kinesin system
Kento Matsuda, Arif Md. Rashedul KABIR, Kentaro Kayano, Jakia Jannat KEYA, Kazuki Sada, Akinori Kuzuya, Akira Kakugo
- 3Pd040 New preparation method of IPN elastomer utilizing thermal-crosslinked network and hydrogen-bonded network
Mikihiro Hayashi, Akinori Takasu, Kanta Sugimoto
- 3Pc043 Thermal response of Cholesteric Liquid Crystal Elastomers with Periodic Surface Undulation
Daisuke Harada, Yukihiro Nisikawa, Kenji Urayama
- 3Pd044 Smectic phase formed in coil-rod-coil block copolymers
Ryuji Suzuki, Itsuki Kato, Kento Okoshi
- 3Pc045 Dielectric relaxation and electrode polarization in imidazolium-based ionic liquid crystals III
Toshiharu Yamane, Jun Yoshioka, Koji Fukao
- 3Pd046 Segregation of Smectic Phases Observed in Binary mixtures of Rod-Like Polymers
Itsuki Kato, Kento Okoshi
- 3Pc047 Dynamics in Reentrant Nematic Phase of 6OCB/8OCB Mixture
Tasuku Sakikawa, Shunya Tomiyama, Toshiharu Yamane, Jun Yoshioka, Koji Fukao
- 3Pc049 Thermal Properties and Orientational Behavior of Semi-Flexible Liquid-Crystalline Polyurethanes with Hydrophilic Groups
Seiji Ujiie, Taiki Watanabe, Genichiro Shimada, Masanori Nata

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 3Pd052 Synthesis of Polymer Having 2,4-Diamino-1,3,5-Triazinyl Group in the Side Chain and Evaluation of Molecular Recognition Ability based on Electrochemical Reaction
Jin Ishii, Kouta Takeda, Nobuhumi Nakamura, Miyuki Chikae, Toshiyuki Watanabe, Toshiyuki Watanabe
- 3Pc053 Electrical Resistivity of Graphene / Polyvinyl Alcohol Composites
Satoru Nishikawa, Junya Hukuta, Kenji Nagata
- 3Pd054 Bio-nanohybrid films of ITO-coated polyimides derived from exotic amino acid
Narubol Charoencheep, Sumant Dwivedi, Kenji Takada, Tatsuo Kaneko

- 3Pc055 Influence of Melt-blending Conditions on Electrical Properties of Conductive PS/PC Composites
Akihiro Kondo, Kenji Nagata
- 3Pd056 Preparation and Property of Ternary Hybrid Material Composed of Self-Doped Polymer, Magnetic Nanoparticles, and Silica.
Wako Yoshihisa, Takahiro Uno, Masataka Kubo
- 3Pc057 Tuning color film using silver nanoparticles (2) Development of multilayer color film
Erika Tabuchi, Yasushi Ohe, Atsuko Kamada
- 3Pc059 Fabrication of novel organic-inorganic perovskites using π -conjugated polymers (II) -Effect of cation species on optical properties-
Shunsuke Shimizu, Yui Shimada, Masahiro Fujita, Yuko Takeoka, Masahiro Rikukawa
- 3Pd060 Preparation of metal complex / proton conducting polymer composite film aiming at hydrogen generation
Yu Watanabe, Kazuki Yamamoto, Takahiro Gunji
- 3Pc061 The Effect of Organic Templates on the formation of chiral inorganic Materials
Kei Ohta, Seiji Tsunega, Ren-Hua Jin
- 3Pd062 Synthesis and properties of hybrid spheres through confined micro-space
Sarina Hattori, Katsuya Kaikake, Ren-hua Jin
- 3Pc063 Design of polymeric microspheres for control separation of halogen compounds
Yuichiro Nishizawa, Takuma Kureha, Daisuke Suzuki
- 3Pd064 Sol-gel reaction in porous organic cages
Hiroki Kondo, Takashi Kitao, Takashi Uemura
- 3Pc065 Development of sheath-core type electrospun nanofibers containing titanium oxide and enzyme for formaldehyde treatment
Yuichi Yoshida, Tomonori Waku, Naoki Tanaka
- 3Pd066 Development of Stimuli-Responsive Luminescent Materials Based on POSS Having Flexible Side-Chains
Hayato Narikiyo, Masayuki Gon, Kazuo Tanaka, Yoshiki Chujo
- 3Pc067 Preparation of Pyridine Bridged Alkoxysilanes and Its Application to Reverse Osmosis Membrane
Ibuki Saito, Kazuki Yamamoto, Takahiro Gunji
- 3Pd068 Effect of the difference in structures of acrylic modified silsesquioxanes on warpage of cured film.
Kazuya Suwa, Ayaka Kiya
- 3Pc069 Color tuning of luminescent materials by hybridization of polysilsesquioxane and metal complexes
Ryohei Ono, Masashi Nakamura, Koji Mitamura, Hiroyuki Enomoto, Kimihiro Matsukawa, Seiji Watase
- 3Pd070 High Efficient Ultra Violet Emission from Fluorene Derivatives Hybridized into Polysilsesquioxane
Haruka KATAKURA, Satoshi MINAMI, Masashi NAKAMURA, Koji MITAMURA, Seiji WATASE
- 3Pc071 Phosphorescence properties of gold complex hybridized polysilsesquioxane thin films
Satoshi Nakagawa, Masashi Nakamura, Koji Mitamura, Araki Masuyama, Seiji Watase
- 3Pd072 Absorption Band Controlled Luminescent Materials by Hybridization of

Fluorene Derivatives as a Sensitizer
Satoshi MINAMI, Haruka KATAKURA, Masashi NAKAMURA, Koji
MITAMURA, Seiji WATASE

- 3Pc073 Construction of Organic/Calcium Phosphate Hybrids Having Helical
Structures Inspired by Biominerals
Yasunao Okazaki, Takashi Kato
- 3Pd074 Preparation of Polymer Micelles/Calcium Phosphate Hybrids in Simulated
Body Fluids
Kanaho Yamaguchi, Yusuke Yataka, Kazutoshi Iijima, Mineo Hashizume

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 3Pc077 Synthesis and evaluation of proteins modified with phosphatidylcholines
Yasutaka Matsumoto, Takaya Hoshi, Misaki Shibui, Tohru
Mizushima, Tsutomu Ishihara
- 3Pd078 Development of nanoparticles blended lipid and poly(lactic acid)
Takuya Yoshida, Natsuko Ishikawa, Tohru Mizushima, Tsutomu Ishihara
- 3Pc079 Analysis of intracellular behaviors of poly(lactic acid) nanoparticles
Yuko Miyashita, Kasumi Sato, Tsutomu Ishihara
- 3Pd080 Development of nanoparticles to deliver drugs to the hepatic stellate cells
Namie Saito, Yuichi Yamashita, Tsutomu Ishihara
- 3Pc081 Interaction with cells of polyampholyte core-shell nanogels
Shuhei Okafuji, Kazuaki Matsumura
- 3Pd082 Significant stabilization and functional control of platinum anticancer drug-
loaded polymeric micelles by thermal control
Yuki Mochida, Horacio Cabral, Kazunori Kataoka
- 3Pc083 Design of Glutathione Responsive starPEG Hydrogels Using for Stepwise
Drug Release
Hikaru Wada, Ayumi Kashiwada
- 3Pd084 pH responsive polypeptide nanoparticles for DDS applications
Kasumi Ito, Kazuaki Matsumura
- 3Pc085 Preparation of fiber-integrated graded functional sheet and evaluation of cell
migration on sheet
Shingo Imamura, Hiroyuki Tonami
- 3Pd086 Smart Nanofiber Meshes for controlled heat generation and drug release by
applying alternating magnetic field
Eri Niiyama, Koichiro Uto, Chun Man Lee, Mitsuhiro Ebara
- 3Pc087 Fabrication and in-vivo evaluation of biodegradable and radiopaque
Lipiodol/polycaprolactone microbeads
Yutaka Okamoto, Kenta Bito, Tomohiro Matsumoto, Kosuke
Tomita, Terumitsu Hasebe, Atsushi Hotta
- 3Pd088 Preparation of multistimuli-responsive hydrogels capable of releasing
protein drugs in the vicinity of tumorous tissue
Moeno Tago, Hidenari Kayano, Taka-Aki Asoh, Ryo Ishihara, Akihiko Kikuchi
- 3Pc089 Sustained releasing system for water-soluble low-molecular-weight drugs
using temperature-responsive biodegradable injectable polymers entrapping
liposomes
Hiroki Yamamoto, Yuta Yoshizaki, Akinori Kuzuya, Yuichi Ohya
- 3Pd090 Intracellular delivery of exosome by magnetoresponsive nanogels
Ryosuke Mizuta, Riku Kawasaki, Shin-ichi Sawada, Yushihiro

Sasaki, Kazunari Akiyoshi

- 3Pc091 Impacts of supramolecular structure of ligand-modified polyrotaxanes on internalization into macrophages.
Kai Shibaguchi, Atsushi Tamura, Hideto Matsui, Mitsuaki Matsumura, Hiroyuki Miura, Nobuhiko Yui
- 3Pd092 Development of temperature-responsive biodegradable injectable polymers having tissue adhesive property
Soichiro Fujiwara, Takuya Nagata, Yasuyuki Yoshida, Yuta Yoshizaki, Akinori Kuzuya, Yuichi Ohya
- 3Pc093 Target recognition ability of glucose decorated polymeric micelle penetrating blood-brain barrier
Noriko Nakamura, Yasutaka Anraku, Shigeto Fukushima, Kazuko Tou, Horacio Cabral, Kazunori Kataoka
- 3Pd094 Impairment of Tumorigenic Potential of Triple Negative Breast Cancer by Nitroxide Radical-containing Nanoparticles
Babita Shashni, Yukio Nagasaki
- 3Pc095 Physicochemical Properties of Synthetic Polyamine Lipids for Gene Delivery
Yukino Miyachi, Atsuhito Fukui, Kana Sugiyama, Masaharu Kondo, Takehisa Dewa
- 3Pd096 Control of cell membrane interaction by structural change of charged thermoresponsive nanoparticles
Jun Akimoto, Hsiu-Pen Lin, Yaw-Kuen Li, Yoshihiro Ito
- 3Pc097 Preparation of peptide nanofibers with precisely controlled fiber length and their application for antigen delivery
Sayaka Koeda, Tomonori Waku, Naoki Tanaka
- 3Pd098 Chemical labeling of membrane protein in vivo by polymer-tethered ligand directed chemistry
Shogo Torigoe, Ryo Kubota, Shinichiro Hagi, Ryosuke Ikeda, Itaru Hamachi
- 3Pc099 Radiation sensitizing effect of gold nanoparticle encapsulated serum albumin-imprinted nanogels
Aoi Yoshida, Takuya Yamada, Kentaro Kiguchi, Hiroaki Akasaka, Ryohei Sasaki, Yukiya Kitayama, Toshifumi Takeuchi
- 3Pd100 Preparation of polymer-based nanoparticles via O/W emulsion and their biocompatibility
Jun Matsuno, Shota Fujii, Rintaro Takahashi, Ji Ha Lee, Kazuo Sakurai
- 3Pc101 Development of cancer vaccine with antigen presenting cells targeting self-assembled nanogel
Risako Miura, Shin-ichi Sawada, Yoshihiro Sasaki, Kazunari Akiyoshi
- 3Pd102 Cytotoxicity evaluation of enzyme responsive peptide amphiphiles
Kanon Nishimura, Shota Yamamoto, Takashi Aoi, Tatsuo Maruyama
- 3Pc103 Development of a novel tissue plasminogen activator installed redox-active nanoparticles for ischemic stroke therapy
Ting Mei, Ahram Kim, Binh Long Vong, Aiki Marushima, Sandra Puentes, Yuji Matsumaru, Akira Matsumura, Yukio Nagasaki
- 3Pd106 Structural control of the ordered nano-space composed of grafted nucleopeptide assembly and biomineralization using the nano-spaces as reaction field
Sayaka Minoshima, Kaede Inagaki, Takatoshi Kinoshita, Masahiro Higuchi
- 3Pc107 Optimization for Fabrication of Nano-Line Patterns composed of Organic / Inorganic Hybrids by self-supplied mineralization.

- Kanta Fujiwara, Masahiro Higuchi
- 3Pd108 Conformational transition of template peptide induced self-supplied mineralization
Miyo Okawara, Asuka Miyahara, Masahiro Higuchi
- 3Pc109 Precise synthesis of block copolymers containing multiple ionic poly(amino acid)s and their application for medical nanoparticles.
Yuna Sugure, Tasya Muhamad Yasser, Kai Takaku, Erika Yoshihara, Nobuhiro Nishiyama, Carmen Scholz, Michihiro Iijima
- 3Pd110 Immobilization of Sulfobetaine on Functionalized Dextran Microgels
Neha Sharma, Robin Rajan, Kazuaki Matsumura
- 3Pc111 Characterization of target-selective liposomal membrane fusion behavior under molecular crowding condition.
Akira Ishii, Ayumi Kashiwada
- 3Pd112 Design of liposomal membrane fusion system for metal nanoparticles delivery
Yuuki Nagae, Ayumi Kashiwada
- 3Pc113 Controlled release with peptide-lipid hybrid vesicle containing lipid domain as a gate
Motoki Ueda, Md. Mofizur Rahman, Takuji Hirose, Yoshihiro Ito
- 3Pd114 Characterization of liposomal membrane fusion behavior by the use of complex formation between metal ions and phosphate group in phospholipids.
Kotaro Sahara, Ayumi Kashiwada
- 3Pc115 Vesicle deformation induced by chain rigidity
Yuuki Kataoka, Naohito Urakami
- 3Pd116 Construction of a Nanoparticle Chain on a DNA Template with an Arbitrary Sequence
Tzung-Ying Yang, Li Yu, Yoshitsugu Akiyama, Tohru Takarada, Mizuo Maeda
- 3Pc117 Fabrication of multiple parallel casein-alginate hybrid gel filaments using shear
Yuriko Takayama, Norihiro Kato
- 3Pd118 Preparation of ATP-Responsive Nano-assemblies for Smart Biomaterials
Taira Tsuchiya, Akifumi Kawamura, Takashi Miyata
- 3Pc119 Antigen delivery function of liposomes modified with branched beta-glucan derivatives having pH-sensitivity and adjuvant functions
Shin Yanagihara, Eiji Yuba, Atsushi Harada
- 3Pd120 Dispersion behavior and drug solubilization capability of polyrotaxanes modified by various acyl groups with different hydrophobicity.
Asato Tonegawa, Atsushi Tamura, Nobuhiko Yui
- 3Pc121 Development of polymeric nanomedicines against acute limb ischemia model in rat
Yutaka Miura, Masamitsu Suhara, Yasutaka Anraku, Katsuyuki Hoshina, Horacio Cabral
- 3Pd122 Cytosolic protein delivery using phase-change nano-droplet
Miho Kisaka, Satoshi Yamaguchi, Ayumu Ishijima, Takashi Azuma, Etsuko Kobayashi, Yoshikazu Shibasaki, Teruyuki Nagamune, Ichiro Sakuma, Akimitsu Okamoto