

Room P

Poster Presentation Time (May 27 & May 29th)

Event Hall		Booth No.	001	002	003	004	005	125	126
Day	Time									
May 27 Wed.	1P	9:30- 9:40								
		9:40-10:00								
		10:00-10:40	a	■		■		■		■
	10:40-11:20	b		■		■				■
	11:20-11:30									
	29 Fri.	2P	12:30-12:40							
12:40-13:00										
13:00-13:40			c	■		■		■		■
13:40-14:20		d		■		■				■
14:20-14:30										
3P		14:30-14:40								
	14:40-15:00									
	15:00-15:40	e	■		■		■		■	
	15:40-16:20	f		■		■				■
	16:20-16:30									



Poster Presentation Time (May 28th)

Event Hall		Booth No.	001	002	003	004	005	125	126
Day	Time									
May 28 Thu.	1P	9:30- 9:40								
		9:40-10:00								
		10:00-10:40	a	■		■		■		■
	10:40-11:20	b		■		■				■
	11:20-11:30									
	2P	12:20-12:30								
12:30-12:50										
12:50-13:30		c	■		■		■		■	
13:30-14:10		d		■		■				■
14:10-14:20										
3P		14:20-14:30								
	14:30-14:50									
	14:50-15:30	e	■		■		■		■	
	15:30-16:10	f		■		■				■
	16:10-16:20									



Wed. May 27

Presentation Time

<a = 10:00~10:40>

<b = 10:40~11:20>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 1Pa001 Synthesis of cross-linked polymers with ionic groups based on siloxane
Tsukasa Ichikawa, Nobukatsu Nemoto
- 1Pb002 Evaluation of photostability for organic photovoltaic polymer by infrared spectroscopy
Hiroki Ozaki, Tatsuya Fukushima, Yasuko Koshiba, Kenji Ishida
- 1Pa003 Investigation of isomerization behavior of substituted cis-stereoregular polyacetylenes
Masahide Goto, Masaki Minami, Fumio Sanda
- 1Pb004 Synthesis of π -conjugated network polymers utilizing aromatic Schiff bases
Masahide Goto, Fumio Sanda
- 1Pa005 Spin-Trapping Analysis for Thermal Degradation Mechanism of Poval
Tomoki Hayashi, Kenji Kinashi, Wataru Sakai, Naoto Tsutsumi, Ayaka Fujii, Seisuke Inada
- 1Pb006 Spin-Trapping Analysis for Mechanical Degradation Mechanism of Butadiene Rubber
Yujiro WADA, Kenji KINASHI, Wataru SAKAI, Naoto TSUTSUMI
- 1Pa007 Spin-Trapping Analysis for Photodegradation Mechanism of Polymer Materials
Shinga WADA, Kohei UNO, Wataru SAKAI, Naoto TSUTSUMI, Kenji KINASHI
- 1Pb008 Spin-Trapping Analysis of Degradation Mechanism of Fiber Materials
Anh Thu NGUYEN, Erdene Saikhan BATMUNKH, Kenji KINASHI, Wataru SAKAI, Naoto TSUTSUMI
- 1Pa009 Effect of the Primary Structure on Degradation Reaction Mechanism of Poly(methyl methacrylate)
Shota ICHISE, Kenji KINASHI, Wataru SAKAI, Naoto TSUTSUMI, Yuta MAENAKA, Saiko ARAI
- 1Pb010 Tertiary amino group and amide group modification of poly(vinyl alcohol) side chain by transesterification using zinc ate complex
Naoto Tanabe, Daisuke Sugisako, Miyuki Oshimura, Tomohiro Hirano, Koichi Ute
- 1Pa011 Functionalization of polymethacrylates side chain by irreversible transesterification using zinc ate complex
Shodai Enoki, Fumiya Kasai, Tomoki Hirata, Miyuki Oshimura, Tomohiro Hirano, Koichi Ute
- 1Pb012 Synthesis of poly(naphthalene-1,4-diyl) and its oxidation reaction leading to graphene
Zhiyi Song, Ka Son, Tamaki Nakano
- 1Pa013 Control of Primary Structure of Poly(Phenylene Sulfide)(PPS) via Sulfide Exchange Reaction
Yuichiro MIYABARA, Takeshi UNOHARA, Syunsuke HORIUCHI, Koji YAMAUCHI
- 1Pb014 Electrochemical coupling reaction of poly(dimethyl siloxane) with lophine end groups
Satoshi Honda
- 1Pa015 Synthesis and characterization of poly(ethylene glycol)s having terminal lithium-N-methanesulfonylsulfonimide structure
Koki Hirabayashi, Yoshimasa Matsumura, Bungo Ochiai

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 1Pa017 Structure-Properties Relationships for Polyethylene Solids with Various Molecular Weight Distributions
Takumitsu Kida, Ryo Tanaka, Yusuke Hiejima, Koh-hei Nitta, Takeshi Shiono
- 1Pb018 Direct Evaluation of Molecular Aggregation Structure of Polyethylene and Oligocellulose Crystallized in Solution
Naoki Okawa, Shiori Masuda, Kazutaka Kamitani, Tomoko Kajiwara, Shuhei Nozaki, Chao-Hung Cheng, Ken Kojo, Atushi Takahara, Takeshi Serizawa
- 1Pa019 Preparation of Solution-grown Lozenge-shaped Poly(p-phenylene terephthalamide) Single Crystals and their Structural Stabilization by Heat Treatment
Tomoyasu Takaki, Yutaro Hara, Tetsuya Uchida
- 1Pb020 A study on negative coefficient of thermal expansion for polyamide fibers

Daisuke Kimura,Takumi Kobayashi,Masatoshi Shioya,Takashi Hasegawa,Toshihira Irisawa,Kentaro Takagi,Kenji Tahara,Ken Masuya,Daichi Sakurai,Seiichiro Washino,Kenichi Nara

- 1Pa021 Feature extraction of wide-angle X-ray diffraction, small-angle X-ray scattering and polarization microscopic observation images of aliphatic polyester films based on machine learning methods
Hiroteru Kikutake,Tomoko Kajiwara,Kazutaka Kamitani,Ken Kojio,Kei Terayama,Yoshihumi Amamoto,Atsushi Takahara
- 1Pb022 A study of structural formation of a single chain of polypropylene confined in a cylinder 2
Tomohiro Nakamura,Susumu Fujiwara,Katsumi Hagita
- 1Pa023 Molecular dynamics simulation of melt-memory-effect and origin of very fast re-crystallization
Takashi Yamamoto
- 1Pb024 Melting behavior and polymorphism of propylene-ethylene random copolymer
Ken TAGUCHI,Akihiko TODA,Toru IMAI,Ken-ichi FUNAKI,Koji YAMADA
- 1Pa025 Helical structure phase transition of micro-monoclinic multi-domain of Isotactic Polypropylene
Atsuhiko Kunishige
- 1Pb026 Control of Crystal Polymorphism of Poly(vinylidene fluoride) by Mixing Good-solvents in Non-Solvent Induced Phase Separation Methods
Takahiro Koreda,Shingo Hikita,Hideo Horibe
- 1Pa027 $\alpha 1$ - $\alpha 2$ Phase Transition of Isotactic Polypropylene: Influence of Reorganization
Misako Inagaki,Takumi Okamura,Koji Nozaki,Tohru Imai,Koji Yamada
- 1Pb028 Characteristic Higher-Order Structure Evolution in the N-alkane/Polyolefin Comb-Like Polymer Blend System.
Seiya Honjo,Miki Ito,Koji Nozaki,Tatsuya Kokumai
- 1Pa029 Crystal Structures of nonamethyleneoxamide/2-methyl-1,8-octamethyleneoxamide copolymers
Koki Yano,Naohito Urakami,Koji Nozaki,Tomoyuki Nakagawa
- 1Pb030 Nano-oriented crystals of P(VDF-TFE) were crystallized at much higher temperature in the melt elongation
Kiyoka OKADA,Toshiyuki FUKUSHIMA,Kyouhei SAWAKI,Ken OKANISHI,Masamichi HIKOSAKA
- 1Pa031 Kinetics of density fluctuations during the early stage of crystallization in syndiotactic polypropylene II
Takashi Konishi,Daisuke Tadokoro,Koji Fukao,Yoshihisa Miyamoto
- 1Pb032 Melt Memory Effect of Polymer Spherulite
Masato Hashimoto,Tomko Mizuguchi,Susumu Fujiwara
- 1Pa033 Structure and distribution of hydrocarbon compounds on insect body surface
Fumitoshi Kaneko,Chihiro Katagiri,Gen Sazaki,Ken Nagashima
- 1Pb034 Infrared spectroscopic study of the influence of high pressure hydrogen gas on the structure of crystalline polymers
Fumitoshi Kaneko,Keiko Ohyama,Hirotsada Fujiwara,Shin Nishimura
- 1Pa035 Investigation of Electron Density Distribution Mapping for Polyethylene Crystal by Synchrotron Powder X-ray Diffraction Data and Maximum Entropy Method
Kosei Noso,Kenichi Kato,Masaki Takata,Shinichi Sakurai,Sono Sasaki
- 1Pb036 Dielectric relaxation in poly(diisopropyl fumarate) and its copolymers
Kairi Miyata,Kosuke Kimura,Koji Fukao,Yasuhito Suzuki,Akikazu Matsumoto
- 1Pa037 Structure-property relationship in rubber with carbon black
Daiki Kumagawa,Mikihito Takenaka,Yuki Watanabe,Tadashi Inoue
- 1Pb038 Crystallization and surface properties of telechelic polyethylene having perfluoroalkyl groups at both ends with different molecular weights
Yusuke Togo,Hironori Atarashi,Shinichi Yamazaki,Kunio Kimura

- 1Pa039 Synthesis and crystallization of poly (ϵ -caprolactone) containing a triazole ring at the center of the polymer chain
Shinya Ando, Hironori Atarashi, Shinichi Yamazaki, Kunio Kimura
- 1Pb040 Research on morphology of an asymmetric diblock copolymer
Tappei Oda, Mikihito Takenaka, Takaya Terashima
- 1Pa041 Morphology Control of Microphase-Separated Structures in Block Copolymer / Selective Solvent Systems
Yuma Ito, Hideaki Takagi, Nobutaka Shimizu, Shinichi Sakurai
- 1Pb042 Relationship between kink formation and stress-strain curve of uniaxially-stretched SBS triblock copolymer forming lamellar microdomain structures
Ruito Tanaka, Nobutaka Shimizu, Hideaki Takagi, Shinichi Sakurai

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 1Pb044 Development of synthetic pathways of terminal-modified polyimides showing ESIPT fluorescence and optical properties of thin films.
Atsuko Tabuchi, Mayuko Nara, Ryohei Ishige, Teruaki Hayakawa, Shinji Ando
- 1Pa045 Analysis of Luminescence Properties of Fluorescent and Phosphorescent Imide compounds and Polyimides having Naphthalene Core
Marina Doi, Koichiro Muto, Mayuko Nara, Liang Naiqiang, Eisuke Fujiwara, Ryohei Ishige, Shinji Ando, Kosuke Sano, Hiroaki Mori
- 1Pb046 Analysis of Fluorescence and Phosphorescence Properties of Highly Luminescent Polyimides under Variable Temperature
Mayuko Nara, Eisuke Fujiwara, Ryohei Ishige, Shinji Ando
- 1Pa047 Step- π -conjugated polymers (110) Long range and fast energy/electron transfers of step- π -conjugated polymer having donor and acceptor at terminal.
Jun Akagi, Haoxuan GUO, Hiroyuki Aota
- 1Pb048 Step- π -conjugated polymers (111) Synthesis of benzene type step- π -conjugated polymer with a donor and acceptor at the terminal
Maki Tanaka, Haoxuan GUO, Hiroyuki Aota
- 1Pa049 Step- π -conjugated polymers (112) Evaluation of electron transfer by A,B-block type amphiphilic macromolecular wire with different energy levels
Mae Arakawa, Haoxuan Guo, Hiroyuki Aota
- 1Pb050 Step- π -conjugated polymers (113) Synthesis of amphiphilic macromolecular wires with different energy levels
Mitsuhiro Funo, Haoxuan GUO, Hiroyuki Aota
- 1Pa051 Step- π -conjugated polymers (114) Synthesis of macromolecular wire with benzene ring capable of binding to platinum
Takuya Nakamura, Haoxuan GUO, Hiroyuki Aota
- 1Pb052 Step- π -conjugated polymers (116) Synthesis and electron transfer evaluation of ternary macromolecular wire for multi-step electron transfer
Tomoki Fukushima, Haoxuan GUO, Hiroyuki Aota
- 1Pa053 Step- π -conjugated polymers (117) Synthesis of branched ternary macromolecular wires
Yamaguchi Yurika, Haoxuan GUO, Hiroyuki Aota
- 1Pb054 Synthesis of near infrared light absorption polymer interacting with platinum colloid
Yuta Hatamoto, Haoxuan GUO, Hiroyuki Aota
- 1Pa055 Novel ultra-stable and highly luminescent white light-emitting diodes from perovskite quantum dots-Polymer nanofibers through biaxial electrospinning
Dai Hua Jiang
- 1Pb056 Characteristics of anionic UV cured films using silicon-containing resins
Rema Komatsubara, Masahiro Furutani, Koji Arimitsu
- 1Pa057 Anionic UV curing of episulfide/thiol mixed resins with a photobase generator
Mayu Suzuki, Masahiro Furutani, Koji Arimitsu

- 1Pb058 Anionic UV curing of epoxy resins containing acid anhydrides under low temperature conditions by using photobase generators generating strong bases
Erika Kano,Yumiko Oto,Toshimitsu Moriya,Masahiro Furutani,Koji Arimitsu
- 1Pa059 Anionic UV curing of base-reactive resins by chain curing agents
Yoshiki Kojima,Masahiro Furutani,Koji Arimitsu
- 1Pb060 Photocationic polymerization behavior of epoxy resins in a thick film containing sulfonium salt-type thermal acid generators
Kohei Itaoka,Masahiro Furutani,Koji Arimitsu,Takahiro Seki
- 1Pa061 Development of photo-latent thiols decomposed by 365 nm-light and their application to thiol-ene UV curing materials
Saeko Haraguchi,Ryosuke Shioiri,Takeshi Kumano,Masahiro Furutani,Koji Arimitsu
- 1Pb062 Evaluation of a photosensitive material consisting of a base-reactive polyhydroxyimide and photobase generators
Yuta Fujie,Maho Akimoto,Mei Kunito,Nobuhiro Ishikawa,Toshiyuki Ogata,Masahiro Furutani,Koji Arimitsu
- 1Pb064 Toughening of PLLA by adding surface-modified nanodiamond for thin bioresorbable scaffold
Shuhei Matsushita,Kazuyoshi Tani,Noboru Saitou
- 1Pa065 Synthesis and mechanical properties of reversibly crosslinked polymer based on hydrogen bonds between diols
Shogo Ishizaka,Shintaro Nakagawa,Koji Matsuoka,Naoko Yoshie
- 1Pb066 Synthesis of soluble polyimides using bending bio-based diamine of truxinic acids
Kenji Takada,Takuma Iwasaki,Yuki Morita,Amit Kumar,Tatsuo Kaneko
- 1Pa067 Solution-processable Colorless Polyimides Obtained from Bisnorbornanetetracarboxylic Dianhydride (6)
Masatoshi Hasegawa,Takuya Miyama,Junichi Ishii,Daisuke Watanabe
- 1Pb068 Polyimides Containing Benzazole Units (18). Development of Novel Monomers to Simultaneously Achieve Superheat Resistance and Low CTE properties
Yuji Sakaguchi,Junichi Ishii,Masatoshi Hasegawa
- 1Pa069 Colorless Polyimides Obtained from Novel Spiro-type Monomers (3)
Yoshihiko TERADA,Junichi ISHII,Masatoshi HASEGAWA
- 1Pb070 Colorless Polyimides Obtained from Bisnorbornane-type Tetracarboxylic Dianhydride Containing Aromatic Unit (3).
Sena NAGAI,Junichi ISHII,Masatoshi HASEGAWA,Daisuke WATANABE
- 1Pa071 Organo-Soluble Low CTE Polyimides (12). Applications as Cover Layer Materials in Flexible Printed Circuit Boards
Junichi ISHII,Fumiya HAYASHI,Naoki YOKOYAMA,Masatoshi HASEGAWA
- 1Pb072 Synthesis of a novel methacrylate monomer containing urea and pyridine groups for creation of dual supramolecular associative acrylic resin
Takahiro Kimura,Mikihiro Hayashi,Akinori Takasu
- 1Pa073 Synthesis of epoxy resins without glycidyl ether structure to achieve high heat resistance and evaluation of physical properties of the corresponding cured products
Seiryu Umetani,Yuichiro Tokoro,Toshiyuki Oyama
- 1Pb074 Preparation and Characterization of Epoxied Cellulose using Ionic Liquids as solvents and catalysts.
Seiji Katsura,Takeshi Kakibe,Satoshi Matsuda,Hajime Kishi
- 1Pa075 Rapid synthesis of high-molecular-weight benzoxazines from various bisphenols and diamines by microwave heating
Kanako Yoshimoto,Takuhiko Hasegawa,Taichi Uemura,Takehiro Kawauchi
- 1Pb076 Evaluation of flame retardancy and water absorption of organophosphate-containing polybenzoxazine
Taichi Uemura,Ryo Takahara,Takehiro Kawauchi
- 1Pa077 Synthesis of high performance polybenzoxazines from an oligonuclear phenolic compound

and various amines

Shunichiro Matsumura,Taichi Shibatsuka,Takehiro Kawauchi

- 1Pb078 Synthesis and evaluation of main-chain poly(ionic liquid)s obtained through click reaction
Ruka Hirai,Takaichi Watanabe,Tsutomu Ono
- 1Pa079 Preparation of Resole Resins with High Thermal Stability Using Curing Agents
Koichiro Suzumura,Ryota Nakasone,Takahiro Kakuta,Tada-aki Yamagishi

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 1Pa081 Incorporation of cell-penetrating peptide into liposome by self-assembly and analysis of the binding
Yuva Sato,Makoto Noiri,Naoko Nakamura,Kazuhiko Ishihara,Yuji Teramura
- 1Pb082 Synthesis of amino acid residue-modified dendron-bearing lipids to provide serum resistance on DDS carriers
Yuva Nakatani,Eiji Yuba,Atsushi Harada
- 1Pa083 Evaluation of correlation between drug release and membrane behavior for stimuli-responsive polymer-modified liposomes using fluorescence resonance energy transfer
Atsushi Irie,Eiji Yuba,Atsushi Harada
- 1Pb084 Fabrication of liposomes for liver targeting and their characterization
Miyu Tanahashi,Shota Yoshida,Yosuke Okamura
- 1Pa085 Peptide-lipid hybrid nanodisk
Motoki Ueda,Kon Son,Shinji Takeoka,Yoshihiro Ito
- 1Pb086 Creation of nanoparticles formed by different core cross-linking molecules and evaluation of their functionality
Takuma Kanamaru,Jun Matsuno,Shota Fuji,Kazuo Sakurai,Rintaro Takahashi
- 1Pa087 Design of fullerene-photo antenna molecule assembled system and evaluation of their biofunction
Riku Kawasaki,Daiki Antoku,Kouta Sugikawa,Atsushi Ikeda
- 1Pa089 Shape change and division of vesicles induced by flip-flop of lipids
Naohito URAKAMI,Yuka SAKUMA,Masayuki IMAI
- 1Pb090 Size control of Protein-Encapsulated Yolk-shell Structure by Polyion Complex Formation
Tomoki Maruyama,Yiwei Liu,Takeshi Mori,Yoshiki Katayama,Akihiro Kishimura
- 1Pa091 Investigating functionality of particle formed from PMEA focused on intermediate water
Hiroki Uehara,Kei Nishida,Shin-nosuke Nishimura,Masaru Tanaka
- 1Pb092 Preparation of poly(2-methacryloyloxyethyl phosphorylcholine) (PMPC) hollow particles
Sayaka Fujii,Kazuhiko Ishihara,Shin-ichi Yusa
- 1Pa093 Association behavior of amphiphilic diblock copolymers with pendant phosphorylcholine group in water
Alisa Tsuji,Kazuhiko Ishihara,Shin-ichi Yusa
- 1Pb094 Development of emission induction methods for extracellular vesicles : Electric field induced vesicle
Tomoya Yagita,Shiniti Sawada,Yoshihio Sasaki,Kazunari Akiyoshi
- 1Pb096 Novel acyclic artificial nucleic acid modified with terminal alkyne on the backbone for click reaction
Junya Yokoyama,Keiji Murayama,Hiroyuki Asanuma
- 1Pa097 Non-crosslinking Aggregation of Gold Nanoparticles with G-quadruplexes for Simple Cisplatin Detection
Surachada Chuaychob,Masahiro Fujita,Mizuo Maeda
- 1Pb098 Reversible photo-control of intermolecular stacking between DNA duplex terminals
Naoki Kanayama,Tohru Takarada,Mizuo Maeda
- 1Pa099 Development of Anti-miRNA Oligonucleotide composed of acyclic nucleic acid and artificial base
Fuminori Sato,hiroshi Kamimoto,Yuka Donoshita,Junpei Ariyoshi,Keiji Murayama,Yukiko

Kamiya,Hiroyuki Asanuma

- 1Pb100 Design and characterization of oligo-nucleic acids-crosslinking polysaccharide nanogels with fluorescent molecules
Tomoya Araike,Shinichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi
- 1Pa101 The controlled synthesis of polysaccharide/CpG-DNA complex in an enzymatic manner
Mari Takahara,Shinichi Mochizuki,Sakurai Kazuo

F. INDUSTRIAL POLYMERS AND TECHNOLOGY

- 1Pa103 Structural analysis of the nano-voids during hydrogen elimination process after high-pressure hydrogen gas decompression using small-angle X-ray scattering
Keiko OHYAMA,Fumitoshi KANEKO,Hirotda FUJIWARA,Shin NISHIMURA
- 1Pb104 Gas Permeation Characteristics of High-Pressure Hydrogen Sealing Material -High Pressure Hydrogen Permeation Test Method (3)--
Hirotda Fujiwara,Hiroaki Ono,Shin Nishimura
- 1Pa105 Measurement of specific volume of sealing material used under high-pressure hydrogen environment -PVT Test under High-pressure Hydrogen Environment(1)-
Hirotda Fujiwara,Hiroaki Ono,Shin Nishimura
- 1Pb106 The study of critical exposure pressure for blister generation in epoxy resin caused by high-pressure hydrogen exposure.
Shimpei Hashiguchi,Hiroaki Ono,Hirotda Fujiwara,Shin Nishimura
- 1Pa107 Influence of the dissolved hydrogen on bending modulus of polymers
Hiroaki Ono,Masahiro Kasai,Yohei Fjii,Hirotda Fujiwara,Shin Nishimura
- 1Pb108 Characteristics of soft PVC films with different heat and UV stabilizers
Jong Un Ho,Dae Su Kim
- 1Pa109 Rheological properties of coating liquids containing water soluble polymer and synthetic binder(2) - Effect of Inorganic Pigment Characteristics
Kyoung-Mo Jeong,Sun-Goo Kim,Jong Myoung Won,Yong-Kyu Lee
- 1Pb110 Effect of the synthetic and water-soluble polymers on properties of the coated sheet (2) - properties of the strength and liquid absorption
Kyoung-Mo Jeong,Hyun-Jin Choi,Sun-Goo Kim,Jong Myoung Won,Yong Kyu Lee
- 1Pa111 Effect of the characteristic of vegetable oil on the oil coated sheet property
Kyoung-Mo Jeong,Jae-Hoon Lee,Jeong-Yong Ryu
- 1Pb112 Detailed Structure Analysis for Dry and Wet Bi-axial Drawing Films
Keisuke Sotoyama,Go Matsuba
- 1Pa113 Food 3D printing toward texture design-based food production
Kenta Watanabe,Junpei Shimizu,Makoto Takemasa
- 1Pb114 Correlation between polymerization temperature for the synthesis of oligo(3-methoxythiophene) and gold-like lustrous film properties
Ryohei Sano,Satoru Tsukada,Katsuyoshi Hoshino
- 1Pa115 Synthesis of 3-alkoxythiophene oligomers and their physical properties
Ryota Saito,Satoru Tsukada,Katsuyoshi Hoshino
- 1Pb116 Improvement on thermal conductivity of boron nitride filled epoxy resin by surface treatment
Kenichi Yamazaki,Hiroki Sekiya,Hiroyasu Tarui,Hinako Suematsu,Hiroyuki Yasui
- 1Pa117 Evaluation of Mechanical Properties of Polymer Multilayer Films with Kink Deformation
Yuki Watanabe,Akira Ishigami,shoutaro Nishituji,Takashi Kurose,Hiroshi Ito
- 1Pb118 Fabrication of water-system silicone-modified Polyurethane nanofibers
Toshihisa Tanaka,Keishiro Ono,Daisuke Noda,Masaki Tanaka,Hiromasa Sato
- 1Pa119 Synthesis of Polymethylmethacrylate micro-nano particles by using Micro fluid channel and Liquid in liquid drying method
Kiyomi Fuchigami,Kosuke Kaneko,Tomonori Hanasaki

Presentation Time
<c = 13:00~13:40>
<d = 13:40~14:20>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 1Pc001 Synthesis of polyphenyl acetylene bearing a poly (vinyl ether) as the graft chain
Shin Okuya, Shunsuke Akimoto, Takeshi Namikoshi, Shinji Watanabe
- 1Pd002 Controlled synthesis of poly lactic acid-grafted poly vinyl alcohol by concerted acid-base organocatalyst.
Miki Murayama, Joji Kadota, Akinori Okada, Hiroshi Hirano, Yasuyuki Agari
- 1Pc003 Templated synthesis of two-dimensional polymer networks using MOFs
Yuki Hayashi, Nobuhiko Hosono, Takashi Uemura
- 1Pd004 Miscibility of polyester/poly(2-oxazoline) graft copolymers with water-soluble vinyl polymers
Koki Fukaya, Akinori Takasu
- 1Pc005 Synthesis and Property of Amphiphilic Poly(α -substituted acrylate) Bearing Oligo(ethylene oxide) Chain
Daiki Arai, Kohei Hashimoto, Takahiro Uno, Masataka Kubo, Takahito Itoh
- 1Pd006 Controlled Cationic Copolymerization of Polylactide-Containing Vinyl Ether Macromonomers and Functional Vinyl Ethers
Yuya Asada, Arihiro Kanazawa, Sadahito Aoshima
- 1Pc007 Synthesis of end-functionalized four-armed star-shaped polylactide with coumarin groups and the reversible photo-cross-linking reaction
Minami Matsuda, Kenji Sugiyama
- 1Pd008 Synthesis and solution behavior of amphiphilic graft copolymer prepared by an ionic bond formation of *tert*-amino groups and carboxylic acid
Takeru Shimmi, Kenji Sugiyama
- 1Pc009 Synthesis of asymmetric star-shaped polymers composed of PCL and PLA segments
Yosuke Kashihara, Kazuho Hirose, Kenji Sugiyama
- 1Pd010 Synthesis and thermoresponsive properties of an amphiphilic dendrimer having isopropyl oxazoline unit at the surface sector.
Makoto Kishi, Natsumi Kojima, Keigo Aoi
- 1Pc011 Surface modification of amphiphilic star-type dendrimers having polyoxazolines and hydroxydodecyl groups and thermoresponsive properties of the resulting polymers
Natsumi Kojima, Keigo Aoi
- 1Pd012 Shape memory properties of hyperbranched poly (amide ether) using three-armed N-methyl benzamide pentamer.
Ryoji Kudo, Tadashi Tukamoto, Yoshiyuki Oishi, Yuji Shibasaki
- 1Pc013 Synthesis of brush block copolymers containing hyperbranched polyamide by ring-opening metathesis polymerization
Mizuki Sato, Yoshihiro Ohta, Tsutomu Yokozawa
- 1Pd014 Synthesis of well-defined, end-functionalized hyperbranched polyamide by means of chain-growth condensation polymerization, followed by Suzuki-Miyaura coupling reaction
Hiroki KOBAYASHI, Yoshihiro OHTA, Tsutomu YOKOZAWA

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 1Pd016 Nanoscale spatially-resolved vibrational spectroscopy of lamellar structure by using scanning near-field optical microscopy
Takuya Okamoto, Takuya Yoshida, Meguya Ryu, Junko Morikawa, Yukio Kawano
- 1Pc017 Observation of formation process of a poly(lactic acid) / cyclodextrin inclusion complex in a monolayer
Kazuki Nakayama, Kounosuke Tanaka, Kazuaki Kato, Jiro Kumaki

- 1Pd018 In-situ high-resolution AFM of folded-chain crystallization of it-PMMA
Yuki Ono,Jiro Kumaki
- 1Pc019 Molecular weight and thickness dependence of the regime transition temperature of the spherulite growth rate of polymers in thin films
Taiki Sato,Toshiyuki Kataoka,Manabu Inutsuka,Takayuki Ikehara
- 1Pd020 Development of spherulites and transient domains of poly(p-phenylene sulfide) near glass transition temperature
Yasutoshi TANZAWA,Taichi INUKAI,Shuma YOSHIDA
- 1Pc021 Analysis of plasticization phenomenon accompanying gas sorption by NMR method
Hajime Ishitani,Hiroaki Yoshimizu
- 1Pd022 In-situ measurements during melt-drawing of ultra-high molecular weight polyethylene having bimodal molecular weight distribution
Ayaka Takazawa,Hiroaki Yoshizawa,Masaki Kakiage,Hiroki Uehara,Takeshi Yamanobe,Yui Shimizu,Takuya Ohnishi,Yasutake Wakabayashi,Kei Inatomi,Shigehiko Abe,Kouki Aoyama,Hiroyasu Masunaga
- 1Pc023 Melt-drawing of ultra-high molecular weight polyethylene film prepared by biaxial melt-drawing
Akito Wakui,Daiki Tomiya,Masaki Kakiage,Hiroki Uehara,Takeshi Yamanobe
- 1Pd024 Integrated Analysis of X-ray and Neutron Diffraction Data of Poly(vinyl Alcohol) and its Iodine Complex and the Introduction of New Concept to their Crystal Structures or the Disorder
Kohji Tashiro,Katsuhiko Kusaka,Hiroko Yamamoto,Ichiro Tanaka,Takashi Ohhara,Taro Tamada
- 1Pc025 X-ray Crystallite Modulus and Heterogeneous Stress Distribution of Nylon 6
Sreenivas Kummara,Kohji Tashiro
- 1Pd026 Temperature dependence of incorporation of ethanol from ethanol aqueous for syndiotactic polystyrene nanopore film
Ikki Kobayashi,Takahiko Nakaoki
- 1Pc027 Molecular Structure of Poly (ethylene terephthalate) and Poly (butylene terephthalate) decomposed by heat treatment.
Tatsuki Fujii,Takahiko Nakaoki
- 1Pd028 In-situ analysis of phase transition of π -conjugated supramolecules during heating and cooling
Tomoki Hidai,Saki Saijyo,Masaki Kakiage,Hiroki Uehara,Takeshi Yamanobe,Kazuhiro Hayashi,Kazumasa Suzuki,Shinichiro Kato,Koki Aoyama,Hiroyasu Masunaga
- 1Pc029 Control of carbon layer orientation in lignin-poly (vinyl alcohol) based carbon film by dispersing graphene oxides.
Takehito Yokoyama,Masatoshi Shioya
- 1Pd030 Crystallization and melting behavior of polyoxymethylene containing cyclic molecules
Nobuya Nishimura,Hiroki Takeshita,Katsuhisa Tokumitsu
- 1Pc031 Study on the deformation and void formation of isotactic Polypropylene
Takahiko Kawai,Shin-ichi Kuroda,Shota Soeno
- 1Pd032 Temperature and pressure dependence of microphase separated structure in Poly styrene -b- Poly(2-ethylhexyl acrylate)
Yukari Miyamoto,Katsuhiko Yamamoto
- 1Pc033 Relation between microphase separation and liquid crystalline phase in side-chain liquid crystalline block copolymers
Ryohei Suzuki,Hiroki Takeshita,Akira Kanazawa,Katsuhisa Tokumitsu
- 1Pd034 Analysis of Secondary Structure Transition for Diblock Polyaspartates in Solid State by Synchrotron X-ray Scattering
Toshinari Yanagihara,Yuuki Suzuki,Hidemine Furuya,Hiroyasu Masunaga
- 1Pc035 Analysis of stress-strain behavior of ethylene-acrylate copolymer and its ionomer
Takumi Tsurugai,Tsukino Fukushima,Masaki Kakiage,Hiroki Uehara,Takeshi Yamanobe,Aoyama Kouki,Masunaga Hiroyasu

- 1Pd036 Structures and properties of poly(ϵ -caprolactone) at water interface
Manabu Inutsuka, Taiki Sato, L. Norifumi Yamada, Takayuki Ikehara
- 1Pc037 De-inclusion of Cyclodextrin-Polyethylene Glycol Inclusion Complex
Yukino Nanba, Norifumi Yamada, Kohzo Ito, Hideaki Yokoyama
- 1Pd038 Detection of THz excitations (boson peak, fracton) of PMMA by terahertz-bond spectroscopy
Shin Nakagawa, Tatsuya Mori, Yasuhiro Fujii, Suguru Kitani, Akitoshi Koreeda, Hitoshi Kawaji, Jae-Hyeon Ko, Seiji Kojima
- 1Pc039 The study on the plastic zone and the density fluctuations of amorphous polymer
Daisuke Iwahara, Shotaro Nishitsuji, Hiroshi Ito, Masaru Ishikawa, Takashi Inoue, Mikihito Takenaka
- 1Pd040 Effects of annealing on structure and mechanical properties of amorphous polymers
Naoya Kurose, Hiroki Takeshita, Katsuhisa Tokumitsu

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 1Pd042 Optical Energy Conversion Films with Photon Upconversion Dyes System
Shiori Sakurai, Mio Yamauchi, Genta Takatoki, Yasutaka Urata, Hidekazu Konishi, Hirokazu Yamane
- 1Pc043 Development of resist material for extreme ultraviolet light aiming at lower roughness: Synthesis of non-chemically amplified molecular ion resist material
Kohei Fujisawa, Hiroyuki Maekawa, Hiroto Kudo
- 1Pd044 Substituent effects of acceptor units in thermally activated delayed fluorescence
Hiroshi Tasaki, So Shikita, In Seob Park, Takuma Yasuda
- 1Pc045 Development of full-color electrochromic materials based on aryl amine derivatives.
Noriyuki Kiyonaga, Kyohei Matsuo, Daisuke Goto, Takuma Yasuda
- 1Pd046 Synthesis and examination of photoelectric properties of platinum-containing polymers bearing naphthalimide moieties
Taichi Sotani, Toshiko Mizokuro, Fumio Sanda
- 1Pc047 Evaluation of up-conversion based on triplet- triplet annihilation in the hydrophobic DNA thin films
Yoko Iwata, Hideki Kawai
- 1Pd048 Development and evaluation of new near-infrared-to-visible photon upconversion materials
Kanae Izumi, Rena Haruki, Yoichi Sasaki, Nobuhiro Yanai, Nobuo Kimizuka
- 1Pc049 Triplet-triplet annihilation photon upconversion in chromophore-tethered poly(p-phenylene vinylene) films
Takeshi Mori, Andrew Nattestad
- 1Pd050 Reversible control of surface wettability of polyimide containing spiropyran group by UV/Vis light irradiation
Yusuke Tsuda, Syuga Katayama, Kento Miyatsu
- 1Pc051 Creation of an Emitting Amorphous Molecular Material with Anthracene Moiety
Hiroki Asanuma, Hideyuki Nakano
- 1Pd052 Photomechanical Behaviors of Hybrid Solids Composed of Azobenzene-based Photochromic Amorphous Molecular Materials with 1,2-Bis(stearoylamino)cyclohexane
Motona Matsubara, Hiroyasu Ukai, Hideyuki Nakano
- 1Pc053 Creation of a Noble Emitting Amorphous Molecular Material Possessing Cyanostilbene Moiety.
Hiroya Fukushima, Yoshimitsu Sagara, Nobuyuki Tamaoki, Hideyuki Nakano
- 1Pd054 Mechanochromic Emission of a Novel Amorphous Molecular Material Possessing Diphenylanthracene Moiety
Ryoma Matsui, Hiroki Asanuma, Hideyuki Nakano
- 1Pc055 Emission Properties of Hybrid Films of 4-[Bis(4-methylphenyl)amino]benzylideneaniline

with Organic Acids

Takuma Tsukada, Yuya Kitamura, Hideyuki Nakano

- 1Pd056 Development of Highly Fluorescence π -conjugated Macrocycles and Their Application in Organic Light-Emitting Diodes
So Shikita, Takuma Yasuda
- 1Pc057 Polymorphism and Mechanochromic Emission of 1-Alkylcarbamoylpyrenes
Muhammad Afiq Fahmi Bin Jamil, Afiq Nur, Takuya Ara, Hideyuki Nakano
- 1Pd058 Effect of crystallinity in stretched PVA films on photon upconversion quantum yield
Tomohiro Mori, Takeshi Mori, Akira Fujii, Akane Saito, Hitoshi Saomoto, Kenji Kamada
- 1Pc059 Surface viscoelastic measurements with atomic force microscope in a photoresponsive liquid crystalline polymer film
Reona Kanazu, Issei Kitamura, Mitsuo Hara, Shusaku Nagano, Takahiro Seki
- 1Pc061 Synthesis and Gas Permeability of ABA-type Triblock Copolymers Derived from Adamantane Derivative and Polyimide
Kento Iwama, Soichiro Kobayashi, Tsubasa Ito, Kazukiyo Nagai
- 1Pd062 Synthesis and Water Vapor Permeation Properties of ABA-type Triblock Copolymers Derived from Methacrylic Derivative and Polyimide
Soichiro Kobayashi, Kento Iwama, Tsubasa Ito, Ryosui Iwasa, Yohei Sasago, Kazukiyo Nagai
- 1Pc063 Dissolved Aromatic Compounds Separation Properties of Silicone / Acrylamide Copolymer Membrane by Pervaporation Method
Akihiro Kedo, Keisuke Ikeda, Ren Hamada, Tomoharu Araki, Kazukiyo Nagai
- 1Pd064 The Solubility and Diffusivity of Dissolved Organic Compound Separation Membrane by Pervaporation Method
Shuhei Tamada, Akihiro Kedo, Kentaro Saito, Akito Ono, Isao Komaki, Kazukiyo Nagai
- 1Pc065 Synthesis and Gas Barrier Properties of Crosslinked Polymer Derived from Straight-chain Dicarboxylic Acid and Cinnamic Acid Derivative
Shinya Tsubonuma, Jun Utsumi, Sumito Nagahama, Tomoya Tamaki, Kazukiyo Nagai
- 1Pd066 Water Vapor Barrier Properties of Diacetylene-containing Crosslink Membrane Derived from Cinnamic Acid
Jun Utsumi, Shinya Tsubonuma, Sumito Nagahama, Tomoya Tamaki, Ryosui Iwasa, Kazukiyo Nagai
- 1Pc067 Gas permeation characteristic of mixed matrix membranes based on the polymer of intrinsic microporosity PIM-1 and surface-modified pearl-necklace silica nanoparticles
Masafumi Yamato, Takuya Muramoto, Manabu Tanaka, Hiroyoshi Kawakami
- 1Pd068 Separation of cyclic polymers by metal-organic frameworks
Taku Sawayama, Nobuhiko Hosono, Takashi Uemura
- 1Pc069 Synthesis and gas transport properties of thermally-rearranged copolybenzoxazole - silica hybrid membranes
Ryo Akiyama, Tomoyuki Suzuki
- 1Pd070 Hydrogen-Selective Gas Separation Polyamide Membranes
Yoko Hasegawa, Rina Takahashi, Takahiro Tokuyama, Hiroyuki Yamada
- 1Pc071 Polymer nano-hybrid materials for carbon dioxide (CO₂) capture application
Shinji Kanehashi, Colin Scholes, Sandra Kentish
- 1Pd072 Isomeric effects on gas transport properties of polybenzoxazole - silica hybrid membranes
Yukimasa Mori, Tomoyuki Suzuki
- 1Pc073 Permeation Selectivity of two-dimensional MOF Membranes
Satsuki Yoshida, Mutsumi Kimura, Yu Kitazawa
- 1Pd074 Surface Functionalization and Ion Permeability of Ultrathin Nanoporous SiO₂ Films
Yuya Ishizaki, Shunsuke Yamamoto, Tokuji Miyashita, Masaya Mitsuishi
- 1Pc075 Nanostructured Virus Filtration Membranes Based on Two-Component Supramolecular Columnar Liquid Crystals
Kazuma Hamaguchi, Daniel Kuo, Miaomiao Liu, Takeshi Sakamoto, Hiroyuki Katayama, Takashi Kato

- 1Pd076 Recognition of polymer terminus by MOFs for chromatographic separation
Nagi Mizutani, Nobuhiko Hosono, Benjamin Le Ouay, Takashi Kitao, Ryoichirou Matsuura, Takuya Kubo, Takashi Uemura
- 1Pd078 Formation of flexible fine wiring by thermal imprint processing
Wataru Utsushikawa, Akihiko Nemoto, Takashi Kurose, Hiroshi Ito
- 1Pc079 Crosslinking of silver nanowire / PVA transparent conductive film
Hiroto Ishida, Atsushi Aoki
- 1Pd080 Stabilization of Pickering emulsion by cationized cellulose nanofiber and preparation of latent heat storage latex
Arindam CHAKRABARTY, Kazuma MIYAGI, Yoshikuni TERAMOTO
- 1Pc081 Preparation of Cotton-Derived Cellulose Nanocrystals Containing Carboxyl Groups for Metal Ion Adsorption
ThianTiong Teh, Huie Zhu, Masaya Mitsuishi
- 1Pd082 Development of polystyrene nanofibers for high-efficiency virus recovery
Cihat Cengiz, Akifumi Yoshihara, Hiroyuki Tsukagoshi, Yasuhito Kondo, Yoshiyuki Sunaga, Nobuhiro Saruki, Madoka Takai
- 1Pc083 Development of nanofibers formed from enzymes derived from habu snake venom with functional metal complexes
Takayuki Tanaka, Yusei Matsumura, Naoko Ueda-Oda, Keita Kuroiwa
- 1Pd084 Cell-killing effect on cancer cells by nanohybrids of steroid alkaloid glycosides derived from tomatoes with platinum porphyrin complex.
Mayuko Fujitsuka, Daisuke Iohara, Makoto Anraku, Tsuyoshi Ikeda, Fumitoshi Hirayama, Keita Kuroiwa
- 1Pc085 Self-assembly of cyanide-bridge Co-Fe tetranuclear complex and deblock copolypeptide amphiphiles with Aspartic acid and Leucine and their specific magnetic behavior.
Yuya Tanimura, Masayuki Nihei, Keita Kuroiwa
- 1Pd086 Nanohybrids of copper rubeanate complex and diblock copolypeptide amphiphiles with Lysine and hydrophobic amino acids, and their specific electrochemical properties.
Yuya Tanimura, Keita Kuroiwa
- 1Pc087 Formation and application of Supramolecular Structures from phenolic oligomers with Metal-Ligand Interactions
Aoi Nagamatsu, Takahiro Kakuta, Tada-aki Yamagishi
- 1Pd088 Synthesis of Near-infrared Absorbing Squaraine Dyes Bearing Hydrophilic Substituents and Its Self-Assembly in Aqueous Media
Hideto Kotera, Takeshi Maeda, Ryuhei Sawada, Yuichiro Ninomiya, Shigeyuki Yagi, K. Praveen Vakayil, Ajayaghosh Ayyappanpillai
- 1Pc089 Hexagonal Bowl-shaped Microcrystals Directed by Kinetic Self-Assembly of Planar Chiral π -Conjugated Molecule
Osamu Oki, Hiroshi Yamagishi, Yasuhiro Morisaki, Yohei Yamamoto

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 1Pc091 Salt Concentration Dependency of Hydrated Swollen Thickness of Polymer Brush Containing Inverse-phosphorylcholine Group
Takumi Komiya, Kazuo Yamaguchi, Motoyasu Kobayashi
- 1Pd092 Evaluation of up-conversion based on triplet-triplet annihilation in dye-encapsulated polymeric micelles
Yuki Wakebe, Hideki Kawai
- 1Pc093 Peptide assembly having rationally controlled morphology by I- and T-shaped amphiphilic block polypeptides
Toru Itagaki, Motoki Ueda, Yoshihiro Ito
- 1Pd094 Preparation of glucose-responsive core-corona type nanoparticles for possible application in visual diagnosis of diabetes
Masanori OMAE, Syuuhei KOMATSU, Taka-Aki ASOH, Akihiko KIKUCHI

- 1Pc095 Structural control of polysaccharide microsphere-integrated gel by acoustic wave irradiation and their functions
Ayumu Koyama, Shin-ichi Sawada, Yoshihiro Sasaki, Kazunari Akiyoshi
- 1Pd096 Development of poly(ornithine)-based self-assembling drug for treatment of non-alcoholic steatohepatitis
Yaroslav Lee, Bihn Vong Long, Dai-Nghiep Ngo, Yuji Nishikawa, Yukio Nagasaki
- 1Pc097 Fabrication of nanosheets containing albumin and their characterization
Yuma Hirano, Shun Takimoto, Atsushi Igarashi, Hong Zhang, Yosuke Okamura
- 1Pd098 Construction of self-assembling structures from ferritin monomer conjugated with a viral nonstructural protein
Que Dan NGUYEN, Takafumi UENO
- 1Pc099 Formation of nanoline structure composed of organic-inorganic composite by a self-supplying mineralization under peptide monolayer formed at an air-water interface
Kousuke Tsujii, Masahiro Higuchi
- 1Pd100 Fabrication of TiO₂ nanotube by a mineralization using Co coordinated conductive peptide nanowires as a template and its photocatalytic activity
Hikari Suzuki, Masahiro Higuchi
- 1Pc101 Enzymatic Synthesis of Cellulose Derivatives Using Bifunctional Primers and Their Assembled Structures
Kai SUGIURA, Toshiki SAWADA, Hiroshi TANAKA, Shuichi NOJIMA, Takeshi SERIZAWA
- 1Pd102 Construction of Biohybrid Light-Harvesting 2 Complex (LH2) Bearing Quantum Dots
Natsuki Ito, Haruka Yamaguchi, Masaharu Kondo, Masanori Sakamoto, Toshiharu Teranishi, Takehisa Dewa

F. INDUSTRIAL POLYMERS AND TECHNOLOGY

- 1Pd104 Macrostructural optimization of thermoplastic resin for 3D printing of continuous carbon fiber reinforced plastic.
Daisuke Nakayama, Nobuhiro Katsuta, Wataru Suzuki, Taichi Yamada, Jiro Minabe
- 1Pc105 Preparation and physical properties of transparent alumina / cyclic olefin copolymer hybrid materials
Taro Usami, Haruka Yoneki, Hideki Sugimoto, Syogo Nobukawa, Katsuhiro Inomata
- 1Pd106 Preparation and physical properties of transparent acryl / glass cloth composites with high tensile strength
Kosuke Kondo, Ryo Yamaguchi, Hideki Sugimoto, Syogo Nobukawa, Katsuhiro Inomata
- 1Pc107 Preparation and physical properties of photo-curable PMMA based chemical-resistant hard coating materials
Miku Nakgawa, Hideki Sugimoto, Shogo Nobukawa, Katsuhiro Inomata
- 1Pd108 Evaluation of higher-order structure and mechanical properties of cellulose nanofibers reinforced polymer composites
Tsubasa Ueda, Akira Ishigami, Takashi Kurose, Hiroshi Ito
- 1Pc109 Visualization of the tensile fracture behavior of rubber and brass adhesive interfaces using transmission electron microscopy
Katsunori Shimizu, Tomohiro Miyata, Hiroshi Jinnai
- 1Pd110 Fracture behavior of polyamide and hydroxyapatite nanocomposite analyzed by acoustic emission
Tomoyo Okumura, Kenya Sonobe, Asami Ohashi, Harumi Watanabe, Katsushi Watanabe, Hiroshi Oyamada, Kazuya Noda, Masaaki Aramaki, Toshiaki Ougizawa
- 1Pc111 Mechanical Properties of Epoxy-Halloysite Nanotube Composites Cured with Anhydride
Jeong Woo Lee, Dae Su Kim
- 1Pd112 Design of hybrid pellets comprising carbon fiber and synthetic fiber for high impact resistant products
Kazuki Yoshihiro, Shin Hirata, Mitsushige Hamaguchi
- 1Pc113 Solid structure and physical properties of carbon fiber reinforced poly(ether-ether-ketone)

Yoshiki Takata, Takumi Okihara, Takako Osawa, Shigeaki Moriyama, Kaoru Aoki, Naoyuki Nishimura, Naoto Saito

- 1Pd114 Preparation of polysaccharide nanofiber/pNIPAM composite and their application to thermo-responsive light shielding materials
Shuta Waki, Maki Horikawa, Shoji Nagaoka, Makoto Takafuji, Hirotaka Ihara
- 1Pc115 Study of mechanism of adhesion of polypropylene and aluminum by maleic anhydride-modified polypropylene
Shin Horiuchi, Kazunori Kawasaki, Takeshi Hanada
- 1Pd116 The effect of chemical structure and surface morphology of polymeric materials on hydrophobicity
Hinako Suematsu, Fumio Sawa, Takashi Mawatari
- 1Pc117 Surface modification of flexible polymer substrates via plasma treatment and UV irradiation for their electroless deposition
Toshiyuki Tamai, Mitsuru Watanabe, Yasuyuki Kobayashi, Junpei Kobata, Yoshio Nakahara, Setsuko Yajima
- 1Pd118 Development of high water-resistant aluminum ink by non-aqueous dispersion copolymerization
Ryoma Nojiri, Moriya Kikuchi, Seigou Kawaguchi
- 1Pc119 Crystallization of a polypropylene polyethylene blend in injection molding
Yutaka Kobayashi, Yoshiki Tanaka, Shinya Yamane, Yasuhiro Hanamoto
- 1Pd120 Formation of oxide films on a polymer surface through the photodecomposition of metal-organic compounds
Cheng-Tse Wu, Toru Utsunomiya, Takashi Ichii, Hiroyuki Sugimura
- 1Pc121 Photo-Activation Bonding of Polyoxymethylene Plates by Vacuum Ultraviolet Excitation
Mitsuhiro Gonda, Toru Utsunomiya, Takashi Ichii, Hiroyuki Sugimura
- 1Pd122 Performance mechanism of ultra-slippery polymer coating film 2
Masamichi MORITA, Kazuki HOSODA, Michiru KAGAWA, Ryo INOUE, Atsushi SAKAKURA, Hiroki YAMAGUCHI
- 1Pc123 Structural analysis of radiation-induced graft polymer by using thermogravimetric-differential thermal analysis
Masaaki Omichi, Noriaki Seko

Presentation Time

<e = 15:00~15:40>

<f = 15:40~16:20>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 1Pe001 Facile Synthesis of Polyarylamine via C-N Coupling Reaction under Aerobic Conditions
Xi Chen, Akito Ichige, Junpei Kuwabara, Takaki Kanbara
- 1Pf002 Ring-opening metathesis copolymerization of norbornene lactones and cyclic olefins
Sae Kiyohara, Shin-ichi Matsuoka, Masato Suzuki
- 1Pe003 Ring-opening polymerization of multi-substituted trimethylene carbonate
Mayuko Saito, Nobuyoshi Nomura
- 1Pf004 Regio- and stereoselective polymerization of methylglycolide by salen-type Al catalysts
Kazuki Shiraki, Nobuyoshi Nomura
- 1Pe005 Polycondensation of OH-containing diazocarbonyl compounds with cyclic ethers
Hideaki Bekku, Hiroaki Shimomoto, Tomomichi Itoh, Eiji Ihara
- 1Pf006 Controlled Copolymerization by Metal Complex [87] Terpolymerizations of Carbon Dioxide and Two Epoxide Bearing Different Bulky Groups and Thermal Properties of Obtained Copolymers
Masayoshi Honda, Takuya Ebihara, Tomoya Okawa, Hiroshi Sugimoto
- 1Pe007 Synthesis of poly(arylene vinylene) via hydroarylation of alkynes
Ryota Iwamori, Ryota Sato, Junpei Kuwabara, Takaki Kanbara

- 1Pf008 C-H / C-H Cross Coupling Polymerization of Benzazole Fluoride Derivatives
Ryosuke Endo,Junpei Kuwabara,Takaki Kanbara,takeshi Yasuda
- 1Pf010 Substituent effect on ionic conductivities of polyester dendrimers having dianhydromannitol units with pentane diol spacer
Seiya Itokawa,Yuzo Ishigaki,Keigo Aoi
- 1Pe011 Sequence effect of poly(acrylic acid) segment on pH-responsive property of star polymers
Hiroomi Kitajima,Shohei Ida,Shin-ichi Yusa,Shokyoku Kanaoka
- 1Pf012 Controlled Polymerization with a Dissociable Four-Armed Initiator and the Reaction between the Terminal Groups toward Construction of Catenane Gel
Tomoka Yoshimura,Tomofumi Morishita,Makoto Ouchi
- 1Pf014 Synthesis of non-linear ladder polymer by direct arylation.
Asuka Maeda,Koji Takagi
- 1Pe015 Synthesis and gas permselectivity of 2D-polymer containing polyacetylene composite membranes (4) Effect of the introduction of comonomer units of the starting polyacetylene on oxygen permselectivity
Ibuki Shimotomai,Shintaro Hosono,Kaoru Kuwahara,Masahiro Teraguchi,Takashi Kaneko,Toshiki Aoki
- 1Pf016 Synthesis and gas permselectivity of 2D-polymer containing polyacetylene composite membranes (3) Effect of the supramolecular structures of the starting polyacetylene in the membranes on oxygen permselectivity
Kazuki Shoji,Yuka Kimura,Masahiro Teraguchi,Takashi Kaneko,Toshiki Aoki
- 1Pf018 Effect of end groups on biodegradation and thermal behavior of four-armed star-shaped polycaprolactone
Kotaro Kinoshita,Kenji Sugiyama
- 1Pe019 Synthesis and characterization of soluble ladder polymers by intramolecular ATRP
Nozomi Sakai,Yuki Sinozaki,Moriya Kikuchi,Seigou Kawaguchi
- 1Pf020 Film formation of Au₂₅ cluster mediated by spontaneous disulfide bond formation
Yuki Saito,Yukatsu Shichibu,Katsuaki Konishi
- 1Pe021 Functionalization of EO / AGE random copolymer by St grafting and its application to solid electrolyte for lithium ion batteries
Urara Hida,Keiji Yamashita,Noriyuki Sonoyama

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 1Pe023 Fracture toughness of glassy polymer characterized by using indentation test
Sadaki Samitsu,Yasuhiro Yamauchi
- 1Pf024 Tensile process of a silica nanoparticle-dispersed rubber studied by transmission electron microscopy
Daisuke Watanabe,Tomohiko Nagao,Tomohiro Miyata,Hsiao-Fang Wang,Hironori Marubayashi,Hiroshi Jinnai
- 1Pe025 Dispersion State of Carbon Black Physically-Adsorbed with Polymer and Viscoelastic Properties of Polymer Composites
Mai Takeuchi,Yoshihisa Fujii,Naoya Torikai
- 1Pf026 Correlation between phase structure and uniaxial tensile properties of injection-molded incompatible PMMA / PC blends
Kazuaki Nagamori,Yuta Funada,Takashi Kuriyama
- 1Pe027 Thermal properties of composites of poly(methyl methacrylate) and adamantane derivatives and chain mobility
Hyuuga Hamano,Toyoaki Hirata,Kenji Hisada
- 1Pf028 Improvement of transparency of PMMA/EVOH immiscible blend film
Mayu Horada,Shogo Nobukawa,Katsuhiro Inomata
- 1Pe029 Bending Control of Phase Separation Structure in Refractive Index Distribution Type Diffuser
Kentaro Kusama,Takahiro Ishinabe,Baku Katagiri,Tatsuki Kuramoto,Hideo Fujikake

- 1Pf030 Synthesis and lamellar structural characterization of diblock copolymers containing photo-cross-linkable and fluorine groups in one block
Takumi Miyashita, Mikihiro Hayashi, Akinori Takasu
- 1Pe031 Morphology and crystallization behavior of PMMA/PVDF blends
Akihiro Naruke, Xiaobin Liang, Ken Nakajima
- 1Pf032 The effect of hydrophilicity on phase separation and crystallization of blends of fluorine resin and PMMA
Ryota Sato, Go Matsuba, Hiromu Sakamaki, Shuhei Yamaguchi, Masaji Komori, Hideki Kouno
- 1Pe033 Phase separation of Poly(3-hydroxy butirate)/Poly lactic acid(PHB/PLA) blend by THz-imaging
Taisei Yoshie, Harumi Sato
- 1Pe035 Soluble Ability shown by Main-Chain Liquid Crystal Polyurethanes and Formation of Liquid Crystalline Complexes
Ryo Kurahashi, Masanori Nata, Yuko Iwami, Seiji Ujiie
- 1Pf036 Relationship between Orientational Structure and Polar Component on Polymeric Binary Systems
Shougo Nakagawa, Masanori Nata, Seiji Ujiie
- 1Pe037 Assembled Structures formed by Amphiphilic Polymer Liquid Crystals with Hydrophobic Rigid Group in the Side-Chain
Riho Samura, Yuko Iwami, Seiji Ujiie
- 1Pf038 Dielectric properties of a highly polar liquid crystal compound with dioxane unit
Sota Endo, Yasushi Okumura, Shin-ichi Yamamoto, Koki Sago, Hirotsugu Kikuchi
- 1Pe039 Structure and thermal diffusivity of side-chain liquid crystal polymers bearing azobenzene mesogens
Hirofumi Harada, Masatoshi Tokita
- 1Pf040 Thermal Conductivity for Main-Chain Liquid Crystalline Thiol-ene Polymers
Shimpei Ishikawa, Masatoshi Tokita
- 1Pe041 Structure and properties of poly(substituted methylene)s bearing fluorinated side-chains
Ayano Yoshitake, Masatoshi Tokita
- 1Pf042 Optically active charge-transfer complex which comprises the helical conducting polymer and 7,7,8,8-tetracyanoquinodimethane
Takuya Yonehara, Hiromasa Goto
- 1Pe043 Design of hydrophilic gyroid surfaces formed by amphiphilic zwitterions and construction of proton conductive pathways by controlling humidity
Hikaru Oshiro, Tsubasa Kobayashi, Takahiro Ichikawa
- 1Pf044 Magnetic field orientation and gas transport characteristics of liquid crystal polyester
Daiki Shoji, Hiroaki Yoshimizu
- 1Pe045 Effects of Copolymer Composition on Phase Behavior of Side-chain Liquid Crystalline-Amorphous Copolymers
Akira Kanazawa, Ryohei Suzuki, Hiroki Takeshita, Katsuhisa Tokumitsu
- 1Pf046 Induction of highly ordered smectic phase by mixing heterogeneous mesogens
Naoki Hida, Keisuke Takishima, Ryota Imanishi, Mitsuo Hara, Shusaku Nagano, Takahiro Seki
- 1Pe047 Application of smectic LC phase formed by polysilane for nano-patterning
Riku Fujihisa, Kento Okoshi
- 1Pf048 Microphase separation of liquid crystalline block copolymers having side-on type mesogens
Reon Shioda, Masatoshi Tokita
- 1Pe049 Mechanical properties of chevron structures formed by liquid crystal block copolymers
Seiichiro Yagi, Masatoshi Tokita
- 1Pf050 Lamellar microdomain deformation of liquid crystalline block copolymers
Masaaki Oguro, Masatoshi Tokita

- 1Pe051 Induced IR absorption of molecular hydrogen in polymer matrices
Hiroaki Ono,Hirotsada Fujiwara,Shin Nishimura
- 1Pf052 Molecular interaction between fiber/polymers and low-molecular weight compounds 39.
Adsorption characteristics of polymerfilms
Aya Inada,Hitoshi Kanazawa
- 1Pe053 Evaluation of local elastic modulus of various polymers by force curve mapping (FCM)
with atomic force microscope (AFM)
Tomonori Nakashima
- 1Pf054 Evaluation of Interaction with Polymer by Molecular Motion Analysis of Water Molecules
Shunsuke Kametani,Tomonori Nakashima,Yoshimichi Namai

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 1Pf056 Evaluation of transparency of optical polymer and prediction from chemical structure
Atsumi Uno,Norihisa Tanio
- 1Pe057 Structure analysis and transparency evaluation of transparent polymer by light scattering
method
Daiki Tenma,Norihisa Tanio
- 1Pf058 Synthesis of Cyclic Imide Derivatives Having Ionic Properties at *N*-substituent and
Evaluation of Light-emitting Devices and Sheets
Hirofumi Matsumoto,Ryoya Fujiwara,Mieko Igata,Kazuhiro Yamabuki,Kenjiro Onimura
- 1Pe059 Photon Up-conversion Material Using Room-Temperature Phosphorescent Materials as a
Host
Shinji Tajima,Toshiyuki Watanabe,Kenro Totani
- 1Pf060 Photoinduced mass transfer propagated from a topmost photoresponsive skin layer
Issei Kitamura,Mitsuo Hara,Shusaku Nagano,Takahiro Seki
- 1Pe061 Laser emission properties of conjugated polymers containing dithienoarsole
Chieko Yamazawa,Yoshinori Hirano,Hiroaki Imoto,Naoto Tsutsumi,Kensuke Naka
- 1Pf062 Chemical Functionalization of Single-walled Carbon Nanotubes for Defect Structure
Modification toward Near Infrared Photoluminescent Material Fabrication
Keita Hayashi,Tomohiro Shiraki,Tsuyohiko Fujigaya
- 1Pe063 Wavelength Changes of Near Infrared Photoluminescence of Single-Walled Carbon
Nanotubes Functionalized with Modifiers having Multiple Reactive Groups.
Haruka Aoki,Tomohiro Shiraki,Naoki Tanaka,Tsuyohiko Fujigaya
- 1Pf064 DNA oriented film stretched and immobilized between floating potential electrode (FPE)
and its photo-electro function
Reo Chijimatsu
- 1Pe065 Control of Helical Axis Orientation in Mono-Dispersed Cholesteric-Liquid-Crystal
Microparticles and Their Optical Properties
Tomoki Shigeyama,Kyohei Hisano,Osamu Tsutsumi
- 1Pf066 Synthesis of Metal Nanoparticles and Patterning in Polymeric Films Induced by Electron
Beam
Hiroki Yamamoto,Takahiro Kozawa,Seiichi Tagawa,Jean-Louis Marignier,Mehran
Mostafavi,Jacqueline Belloni
- 1Pe067 Fluorescent H-aggregates from cyanine dye-chiral molecular assembly complex
Naoya Ryu,Yutaka Okazaki,Emilie Pouget,Reiko Oda,Shoji Nagaoka,Makoto
Takafuji,Hirotsuka Ihara
- 1Pf068 Fabrication of polarization hologram in LC cell without alignment layer
Kyohei Fujita,Nahomi Waki,Mizuho Kondo,Hiroshi Ono,Tomoyuki Sasaki,Kohei
Noda,Moritsugu Sakamoto,Nobuhiro Kawatsuki
- 1Pe069 Synthesis of Squaraine Dyes Bearing Various Substituents and Evaluation of Their Liquid
Crystallinity
Yushiro Shima,Masashi Takano,Takeshi Maeda,Shigeyuki Yagi,Kento Ohkoshi

- 1Pf070 Waveguide analysis of anisotropic dichroic dye-doped polymer optical fiber under stress
Keigo Uzawa, Kentaro Yano, Rei Furukawa
- 1Pe071 Fabrication of terbium ion-doped helical nano silica using molecular assemblies as templates and induction of its chiroptical property
Tomoyuki Harada, Naoya Ryu, Shoji Nagaoka, Makoto Takafuji, Reiko Oda, Hirotaka Ihara
- 1Pf072 Waveguide-structured CO₂ sensor using ionic liquid
Miku Okura, Rei Furukawa, Fumio Ohuchi, Hidemasa Takana
- 1Pe073 The diffusion of the SrAl₂O₄:Eu in the core clad structure.
Kenji Yoshita, Rei Furukawa
- 1Pe075 Diffusion coefficient of solute in heterogeneous and macroporous hydrogels and its correlation with the effective crosslinking density
Hideaki Tokuyama, Yu Nakahata
- 1Pf076 Adsorption behavior of Cr(VI) in radiation grafted adsorbent by in situ XAFS analysis
Noriaki Seko, Natsuki Hayashi, Daijyu Matsumura, Takuya Tsuji
- 1Pf078 gamma-cyclodextrin-immobilized cellulose adsorbent for selective removal of endotoxin
Yusuke Ota, Natsumi Hagio, Masayo Sakata, Takeo Kitamura, Yuko Morita
- 1Pe079 Development of Switchable Chiral Stationary Phases with High Durability Based on Helical Poly(phenylacetylene)s
Misaki Yoshida, Mayu Fukuda, Takumi Yoshida, Tsuyoshi Taniguchi, Tatsuya Nishimura, Katsuhiko Maeda
- 1Pf080 Development of functional nanogel-immobilized porous silica for highly selective HPLC stationary phase
Naoki Kawamoto, Yongxing Hu, Hongdeng Qui, Makoto Takafuji, Hirotaka Ihara
- 1Pe081 Fabrication of Chitosan/ Recycled Polyethylene Terephthalate Nanofibrous Membrane for Oil-Water Separation
Andrea Baggio, Hoan Ngoc Doan, Phu Phong Vo, Kenji Kinashi, Wataru Sakai, Naoto Tsutsumi
- 1Pf082 Structure-controlled chiral poly(phenyleneethynylene)s containing cinchona alkaloid moieties for their application to asymmetric catalysis
Hiroya Sasaki, Shinichi Itsuno
- 1Pe083 Molecular Weight Dependence of Macromolecular Helicity Induction and Memory in Poly(biphenylacetylene) Derivatives
Shiori Sakamoto, Daisuke Hirose, Tsuyoshi Taniguchi, Tatsuya Nishimura, Eiji Yashima, Katsuhiko Maeda
- 1Pf084 Asymmetric Intermolecular C-H Insertion Using Dirhodium Complexes Coordinated with Helical Poly(diphenylacetylene)s
Shota Sona, Daisuke Hirose, Hidetaka Ishibashi, Tsuyoshi Taniguchi, Tatsuya Nishimura, Katsuhiko Maeda
- 1Pe085 Synthesis of poly(vinyl-2,2'-bipyridyl)s and their application for catalysis
Soma Kasai, Zhiyi Song, Masayoshi Bando, Tamaki Nakano
- 1Pe087 Evaluation of the effect of copolymerization ratio on oxygen-binding affinity of cobalt(II) salen complexes.
Takumi Namiki, Takayuki Suzuki
- 1Pf088 Syntheses of polymeric dyes having fluorophthalein and evaluation of color change of their cellulose nanofiber composites.
Yutaro Agui, Takayuki Suzuki
- 1Pe089 Correlation of polymeric spiropyrans fixed on translucent glass fiber by absorption spectra and color information on chromaticity diagram.
Shiki Negoro, Takayuki Suzuki
- 1Pf090 Helical Conformational Changes in Optically Active Poly(diphenylacetylene)s in Response to Temperature Accompanied by Visible Color Changes
Koji OGINO, Daisuke HIROSE, Hidetaka ISHIBASHI, Tsuyoshi TANIGUCHI, Tatsuya NISHIMURA, Katsuhiko MAEDA

- 1Pf092 Synthesis and Self-assembly of Pyrene Derivative Bearing Chiral Side Chains.
Katsuki Shigita, Shumpei Yonezawa, Takuya Nakashima, Tsuyoshi Kawai
- 1Pe093 Fluorescent nano-particles prepared by direct polymerization by binaphthol
Naoya Okamura, Yutaka Kuwahara, Makoto Takafuji, Hirotaka Ihara
- 1Pf094 High-response transparent and flexible heater based on carbon nanotube film
Yeji KIM, Hye Ryoung Lee, Yoshio Nishi, Takeshi Saito
- 1Pe095 Study of polymerization kinetics on the surface of single-walled carbon nanotubes (SWNTs) monitored by newly-generated photoluminescence of SWNTs
Yukiko Nagai, Masako Yudasaka, Tomohiro Shiraki, Yoshiaki Niidome, Boda Yu, Tsuyohiko Fujigaya
- 1Pf096 Structural Effects of Aryldiazonium Modifiers on Near-Infrared Photoluminescence of Chemically Modified Carbon Nanotubes
Boda Yu, Tomohiro Shiraki, Tsuyohiko Fujigaya
- 1Pe097 Design of polymerizable liquid-crystalline molecules for creating 3D proton conductive soft-membranes
Asako Maekawa, Tsubasa Kobayashi, Takahiro Ichikawa
- 1Pf098 Fabrication of Novel Resin Materials Including Cell Wall-like 3D Patterned Frames of Nanocellulose
Hayate Kuroyanagi, Shingo Yokota, Tetsuo Kondo
- 1Pe099 Synthesis of flame-retardant core-shell particles containing phosphonate group
Yamagishi Taiga, Rintaro Kitamura, Sugihara Shinji, Yasushi Maeda
- 1Pf100 Control of colorfulness of photonic crystal structural color by doping of monodisperse black polymer spheres
Kosuke Nakamae, Nanami Hano, Hirotaka Ihara, Makoto Takafuji
- 1Pe101 Color control of totally-organic particles prepared by one step polymerization of dihydroxy aromatic hydrocarbons
Akari Yamamoto, Yutaka Kuwahara, Shoji Nagaoka, Makoto Takafuji, Hirotaka Ihara
- 1Pf102 Preparation of polymer microspheres with surface dimple structure and their capturing ability
Nanami Hano, Shizuka Kanawa, Yoshimi Takeda, Reiko Oda, Makoto Takafuji, Hirotaka Ihara
- 1Pe103 Morphological Observation of Polystyrene Particles Prepared by Micro-spray Method
Ryo Ogawa, Yoshihisa Fujii, Naoya Torikai
- 1Pf104 Development of Synthesis Method of Au-Cu Clusters Using 4-Mercaptopyridine
Sota Fukushima, Hirokazu Kitazawa, Yasuhiro Inada

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 1Pf106 Dynamics of Water in Polyethylene glycol studied by Quasi-Elastic Neutron Scattering
Daiki Murakami, Yoshihisa Fujii, Taiki Tominaga, Hideki Seto, Masaru Tanaka
- 1Pe107 Synthesis of novel polyolefin-based polymers with controlled side-chain spacing and analysis of hydration structure
Kento Yoshida, Shingo Kobayashi, Masaru Tanaka
- 1Pf108 Effect of the side-chain spacing of poly(2-methoxyethyl acrylate) on the mobility of the ester group and hydration states
Toshiki Sonoda, Shingo Kobayashi, Masaru Tanaka
- 1Pe109 evaluation of anti-thrombogenicity based on microscopic observation of poly(omega-methoxyalkyl acrylate)/water interface
Haruka Matsumoto, Segami Yuto, Nishida Kei, Murakami Daiki, Tanaka Masaru
- 1Pf110 Synthesis and evaluation of platelet adhesion properties of poly(lactic acid) multiblock copolymers having poly(ethylene oxide) segments
Shu Tsushima, Mitsutoshi Jikei, Kazuya Matsumoto, Shigeharu Ueki
- 1Pe111 Synthesis of stereocomplex poly(L-lactide)-poly(1,5-dioxepan-2-one) multiblock copolymer

and evaluation of blood compatibility.

Yoshiki Kaneda, Mitsutoshi Jikei, Kazuya Matsumoto, Shigeharu Ueki

- 1Pf112 High durable anti biofouling and antithrombotic coatings
Taihei Taniguchi, Ryohei Koguchi, Masakatsu Irie
- 1Pe113 Antibacterial property of peptide-immobilized biocompatible polymer coatings
Yuta Kozuka, Zhou Lu, Tukururu Masuda, Madoka Takai
- 1Pf114 Challenges for systematization of degradation of aliphatic polyesters as biodegradable medical materials
Kentaro Miura, Yuta Yosizaki, Akinori Kuzuya, Yuichi Ohya
- 1Pe115 Development of a tissue adhesive sheet for prevention of pulmonary air leaks
Hiroaki Ichimaru, Yosuke Mizuno, Xi Chen, Akihiro Nishiguchi, Tetsushi Taguchi
- 1Pf116 Influence of Anchoring Segments on Poly(olygoethyleneglycol methacrylate) Segments Coated on Silica Surfaces Using the Grafting-to Method
Shigehito Osawa, Masato Kashiwakura, Hidenori Otsuka
- 1Pe117 Preparation of Fluorescent Polymer Nanoparticles for Mechanobiology Analysis
Masanaga Miyake, Soichiro Ogura, Masao Kamimura
- 1Pf118 Fabrication of ATP-sensing nanoparticles featuring phenylboronic acid functionality
Nodoka Takahashi, Mitsuru Naito, Kanjiro Miyata
- 1Pe119 Development of a Photocleavable Drug Binding Platform for Local Drug Delivery and Enhancement of its Hemocompatibility
Hayato Mizuno, Yasutaka Anraku, Ichiro Sakuma, Yuki Akagi
- 1Pf120 Development of skin-contact device consisting of glucose-sensitive hydrogel and sheet-like capacitor
Hajime Fujita, Kento Yamagishi, Michinao Hashimoto, Toshinori Fujie
- 1Pe121 Development of thin-film heating devices for implantable applications
Masato Saito, Noriyuki Matsutani, Eiichi Kanai, Toshinori Fujie
- 1Pf122 Synthetic Glucose-Responsive Microneedle Patch for Smart Insulin Delivery
Siyuan Chen, Takuya Miyazaki, Michiko Itoh, Hiroko Matsumoto, Yuki Morooka, Miyako Tanaka, Yuji Miyahara, Takayoshi Suganami, Akira Matsumoto

Thu. May 28

Presentation Time

<a = 10:00~10:40>

<b = 10:40~11:20>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 2Pa001 Synthesis, polymerization and properties of 8 rectilinearly annulated semiconducting units
Hitoshi Hanamura, Makoto Watanabe, Masato Miyashita, Masao Tanabiki, Koichiro Mikami
- 2Pb002 Synthesis and properties of polymer semiconductors consisting of novel thienoacene units with different alkyl side chains
Koki SUGIYAMA, Hitoshi HANAMURA, Masato WATANABE, Masato MIYASHITA, Masao TANABIKI, Koichiro MIKAMI
- 2Pa003 Thermal and optical properties of poly(tetramethylsilarylenesiloxane) derivatives with 3,4-ethylenedioxythiophene moiety.
Yuzuki Gommori, Ruri Okura, Natsumi Kobayashi, Tsukasa Ichikawa, Nobukatsu Nemoto
- 2Pb004 Studies on the synthesis and chirality of poly(naphthalene-1,4-diyl)
Ka Son, Zhiyi Song, Masayoshi Bando, Tamaki Nakano
- 2Pa005 Synthesis and Turn-on Fluoride Sensing of Polymers Containing Bismuth-dithiocarboxylate Complex
Naoki Usui, Yoshimasa Matsumura, Bungo Ochiai
- 2Pb006 Synthesis and characterization of poly(tetraphenylsilarylenesiloxane) derivatives having cardo-structure

Ruri Okura, Yuya Katayose, Yuzuki Gommori, Tsukasa Ichikawa, Nobukatsu Nemoto

- 2Pa007 Synthesis and Optical Properties of High Refractive Index Poly(arylene sulfide) by Oxidative Polymerization
Kanta Matsushima, Kenichi Oyaizu
- 2Pb008 Synthesis and property of polyurethanes containing tellurium in the main chain
Taiga Kawaguchi, Yoshiaki Iwamoto, Hiroto Kudo
- 2Pa009 Effects of Thermal Isomerization of Nitrile N-Oxide on the Reaction
Shiho Bando, Yasuhito Koyama, Toshikazu Takata
- 2Pb010 Synthesis and Properties of Aromatic Polyimides Containing Triphenyltriazine Units
Kaito Abe, Tomomi Ishii, Tadashi Tsukamoto, Yuji Shibasaki, Yoshiyuki Oishi
- 2Pa011 Direct synthesis of thermal-stable polyamide using aromatic diamine and aliphatic carboxylic acid
Taiki Endo, Tomoya Higashihara
- 2Pb012 Synthesis and Properties of Polybenzimidazole Containing Perfluorohexylene group
Masato Nakamura, Mayu Hanada, Tadashi Tsukamoto, Yuji Shibasaki, Yoshiyuki Oishi
- 2Pa013 Synthesis of donor-acceptor alternating copolymers by means of $A_2 + B_2$ unstoichiometric polycondensation by using benzotriazole as a dibromo monomer
Sana KOBAYASHI, Hajime SUGITA, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 2Pb014 Synthesis of azine-based conjugated polymers from hydrazine
Junpei Kuwabara, Hiroki Murakami, Keita Suzuki, Takaki Kanbara
- 2Pa015 Synthesis of poly(conjugated ester) from diacrylate monomers
Anri Tanaka, Keito Hagiwara, Yasuhiro Kohsaka
- 2Pb016 Synthesis and Polymerization of 2,7-diacryloylfluorene
Masatoshi Ohyama, Rie Yasuda, Shinsuke Miyauchi, Yasuhiro Kohsaka
- 2Pa017 Azide-alkyne cycloaddition polymerization of *t*-butyl 4-azido-5-hexynoate and conformational analysis of the obtained polymers
Yuri Kamon, Shota Yamasaki, Akihito Hashidzume
- 2Pb018 Synthesis of Stereoregular Uniform Oligomers of *t*-Butyl 4-Azido-5-hexynoate by Stepwise Copper(I)-Catalyzed Azide-Alkyne Cycloaddition
Junji MIURA, Shota YAMASAKI, Yuri KAMON, Akihito HASHIDZUME
- 2Pa019 Environment Friendly Synthesis of Poly(thienylene vinylene) and Its Application to Block-copolymer Synthesis
Keiichiro SATO, Tomoya HIGASHIHARA
- 2Pb020 Intramolecular transfer of Pd catalyst on two bromoarylenes connected to silylene group and its application to unstoichiometric polycondensation
Rina YACHIDA, Natsumi HARADA, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 2Pa021 Preparation of functional polymer films using poly (tetramethylsilylenesiloxane) with ether moiety in the main chain
Sayo Mugikura, Tsukasa Ichikawa, Nobukatsu Nemoto

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 2Pa023 Linear rheological properties of poly(ethylene-oxide)/silica nanocomposites
Saki Kusakabe, Takuya Katashima, Keiichi Nakagawa, Yuki Akagi
- 2Pb024 Fracture analysis of cross-linked rubber by using molecular dynamics simulation
Yasuhito Karino
- 2Pa025 Rheological Measurement of Aqueous Methylcellulose Solution using Quartz Resonator
Kenji Yamaoka, Yoshihisa Fujii, Naoya Torikai
- 2Pb026 Laser lever in laser particle tracking
Shono Inokuchi, Daisuke Mizuno
- 2Pa027 Grazing incidence small-angle scattering on a single film of shampoo surfactant
Satoshi Koizumi, Misaki Onizawa, Tomoki Maeda, Yohei Noda

- 2Pb028 Development of CO₂-Switchable Pickering Emulsion Stabilized by Microgels
Ryutarō Honda, Yu Hoshino, Yoshiko Miura, To Ngai
- 2Pa029 Microrheology of concentrated colloidal suspensions under external perturbation
Takahiro Eto, Keisuke Igehara, Daisuke Misuno
- 2Pb030 Local Dynamic Response of Biopolymer network
Keigo Shiraki, Natsuki Honda, Daisuke Mizuno
- 2Pa031 Microrheology of concentrated colloidal suspensions by local force application
Keisuke Igehara, Takahiro Eto, Daisuke Mizuno
- 2Pb032 Creation of novel thermosetting matrix resin for carbon fiber reinforced composite material and its molecular design
Hajime Kimura, Keiko Ohtsuka, Morio Yonekawa
- 2Pa033 Effect of clay type and size on mechanical properties of nanocomposite gel
Masafumi Yamato, Kazuma Komine, Takahiro Miyazaki, Takashi Nakaoji, Hiroyoshi Kawakami
- 2Pb034 Construction limit of ideal network gel fabricated from linear and 4-arm star polymers
Yui Tsuji, Xiang Li, Mitsuhiro Shibayama
- 2Pa035 Factors for hydrogels' surface adhesiveness
Ying Gao, Aya Akimoto, Nobuyuki Tanaka, Xiang Li, Mitsuhiro Shibayama, Yuji Ohta, Michika Onoda, Yoshihide Haruzono, Yo Tanaka, Ryo Yoshida
- 2Pb036 Decrease in elasticity by introducing guest chains into polymer gel
Yuki Yoshikawa, Mai Amakawa, Takuya Katashima, Naoyuki Sakumichi, Takamasa Sakai
- 2Pa037 Effects of photo cross-linking in the glassy A domains on the molten B segmental motion for ABA triblock copolymer-based elastomers
Isamu Kawarazaki, Mikihiro Hayashi, Akinori Takasu
- 2Pb038 Comparison of physical properties between semi-IPN elastomers and dual crosslinked elastomers containing chemical and hydrogen bonded cross-links
Kanta Sugimoto, Mikihiro Hayashi, Akinori Takasu
- 2Pa039 Influence of Surface-treated Layer on the MgO Filler Surface on the Network Structure and Thermal Conductivity of Liquid Crystalline Epoxy Resin Composite
Saki Ota, Miyuki Harada
- 2Pb040 Thermal Conductivity of Liquid Crystalline Epoxy Modified Benzoxazine Resins with different ordered structure
Yusuke Akazaki, Miyuki Harada, Masaki Minami
- 2Pa041 Liquid Crystallization and Enhanced Toughness of Cyanate Ester Resin Modified by Mesogenic Epoxy Resin
Satoshi Yanaura, Miyuki Harada
- 2Pb042 Influence of Polyhedral Oligomeric Silsesquioxane with different side chain on Thermal and Mechanical Properties of Mesogenic Epoxy Resins
Kohei Yabuta, Miyuki Harada, Ayumu Osawa, Yoko Onzi, Akehiro Shibamoto, Hiroto Miyake
- 2Pa043 Adhesive Properties of Ionic Polyisoprene Elastomer with Dynamic Crosslinks
Masatoshi Tsunoda, Yohei Miwa, Shoichi Kutsumizu, Yu Shinke
- 2Pb044 Design of Chemical Structure Around Ionic Group in Ionic Silicone Elastomer with Dynamic Crosslinks
Takehito Ohya, Yohei Miwa, Kenjiro Taira, shoichi kutsumizu
- 2Pa045 Universal Equation of State of Osmotic Pressure in Gelation Process
Takashi Yasuda
- 2Pb046 Effect of solvent on deformation and fracture behaviors of double network gels
Yong Zheng, Ye Zhang, Takahiro Matsuda, Tasuku Nakajiam, Takayuki Kurokawa, Jian Ping Gong
- 2Pa047 Molecular dynamics simulation of gels containing slide-ring and fixed cross-links
takeyoshi Masumoto, Yusuke Yasuda, Koichi Mayumi, Hiroshi Morita, Hideaki Yokoyama, Kohzo Ito

- 2Pb048 Effect of precursor size on critical concentration
Kazuki Yazawa, Takuya Katashima, Takamasa Sakai
- 2Pa049 Synthesis of Interpenetrating Polymer Networks by Simultaneous Gelation with Silylated Urethanes
Junta Sano, Shigeki Habaue
- 2Pb050 Synthesis of silica-dispersed NIPAM gel with silicone polymer containing silanol residue
Yuki TANAKA, Daisuke SATO, Junta SANO, Shigeki HABAUE
- 2Pa051 Thermodynamic Mechanism of Thermoresponsive Swelling Properties of Hydrophilic/Hydrophobic Copolymerization Hydrogels
Shohei Ida, Ayaka Fujiseki, Daiki Nishisako, Shokyoku Kanaoka
- 2Pb052 Preparation and properties of reprocessable polymer networks utilizing the Diels-Alder and disulfide metathesis reactions
Makoto Kato, Naozumi Teramoto, Mitsuhiro Shibata
- 2Pa053 Elucidation of the effect of protein on natural rubber properties
Fuga Saji, Keiji Yamashita
- 2Pb054 Molecular Dynamics of Polymer Gel under Uniaxial Deformation
Kosuke Aomura, Yusuke Yasuda, Takeshi Yamada, Koichi Mayumi, Hideaki Yokoyama, Kohzo Ito
- 2Pa055 Changes in Microdomain Structure of Thermoplastic Elastomers during Bulge Deformation
Aya Fujimoto, Nattanee Dechnarong, Chao-Hung Cheng, Hirohmi Watanabe, Ken Kojio, Atsushi Takahara
- 2Pb056 Molecular Simulation of Mechanical Properties of IPN Consisting of Two Types of Networks
Ryoya Nishikawa, Takaya Terashima, Tsuyoshi Koga

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 2Pb058 Anion conductivity of the polymer film having novel expanded π cationic side group
Yuki Motoishi, Naoki Tanaka, Tsuyohiko Fujigaya
- 2Pa059 Fabrication and evaluation of novel composite electrolyte membranes based on proton conductive polymer nanofiber frameworks for next-generation fuel cells
Manabu Tanaka, Hiroki Harada, Motoki Nishizawa, Moeri Shimizu, Hiroyoshi Kawakami
- 2Pb060 Lithium ion conductive characteristics and all-solid-state battery applications of polymer nanofiber composite electrolyte membranes
Manabu Tanaka, Yu Matsuda, Mitsuki Ochiai, Aika Sasaki, Nohara Yokota, Hiroyoshi Kawakami
- 2Pa061 Preparation and properties of inorganic solid electrolyte/polymer composites
Itsuki Funai, Yoichi Tominaga
- 2Pb062 Proton mobility determination at the interlayer of polymer nanosheet multilayer film containing acrylic acids
Minami Inoue, Mayu Tsukamoto, Tokuji Miyashita, Naoya Mitsuishi, Jun Matsui
- 2Pa063 Properties of polymer electrolyte-based lithium batteries using surface-treated positive electrode
Yumi Aso, Yoichi Tominaga, Hiroaki Usui, Nono Toda
- 2Pb064 Electrolyte properties of end-capped ethylene carbonate/ethylene oxide copolymers
Taiga Bando, Yoichi Tominaga
- 2Pa065 Physicochemical and electrochemical properties of homogeneous polymer network gel electrolytes based on a phosphonium-type ionic liquid
Saki Matsuura, Masayuki Shibata, Jihae Han, Kenta Fujii
- 2Pb066 Role of Metal-ion Coordination on PEG-Chain Structure in Ionic Liquid
Masayuki Shibata, Yuji Kamiyama, Kenta Fujii
- 2Pa067 Gelation mechanism of TetraPEG gel electrolytes using a nonflammable Li-ion battery

electrolyte solution

Saori Takano, Asumi Ishikawa, Kenta Fujii

- 2Pb068 Preparation and evaluation of poly(ethylene carbonate)-based Na and K electrolytes
Lirun Zhu, Yoichi Tominaga
- 2Pa069 Electrochemical properties of homogeneous polymer network gel electrolytes for Li-ion capacitors
Jihae Han, Kenta Fujii
- 2Pb070 Electrochemical Properties of Lithium Secondary Batteries Composed of a Hybrid Cathode of Phenothiazine-Substituted Polymers and Lithium Metal Oxides
Choitsu Go, Kan Hatakeyama, Kenichi Oyaizu
- 2Pa071 Electrochemical properties of Electrodes using Polyoxamides as Binder of LIB
Ikue Motomura, Kurumu Uryu, Kimie Shiomi, Shuichi Maeda, Koji Abe
- 2Pb072 Effect of the Structure of Poly(ionic liquid) Anodic Binders on the Performance of Lithium Ion Batteries
Tejkiran Pindi Jayakumar, Rajashekar Badam, Noriyoshi Matsumi
- 2Pa073 Synthesis of Radical Polyethers and Their Application to All Solid-state Secondary Batteries
Satoshi Matsumoto, Kan Hatakeyama, Koji Matsuoka, Tomomi Nagatsuka, Kenichi Oyaizu
- 2Pb074 Exfoliated TiB₂ based nanosheets as an anodic material for Li-ion battery
Rajashekar Badam, Akash Varma, Kabeer Jasja, Noriyoshi Matsumi
- 2Pa075 Effect of ionic structure on transport properties of polyanions dissolved in non-aqueous solvents
Yusuke SAKASHITA, Xiaoxiao YANG, Keita MURAI, Kazuhide UENO, Masayoshi WATANABE
- 2Pb076 Lithium ion secondary batteries utilizing polymerized BIAN/poly(acrylic acid) composite binder for silicon anode
Agman Gupta, Rajashekar Badam, Noriyoshi Matsumi
- 2Pa077 Stabilization of Li ion secondary battery cathode using microbially synthesized dianiline type compound as additive
Agman Gupta, Rajashekar Badam, Shunsuke Masuo, Naoki Takaya, Noriyoshi Matsumi
- 2Pb078 Li ion conducting solid polymer electrolytes based on polyacrylates bearing sulfone groups
Chihiro Doi, Yuichiro Saika, Hisashi Kokubo, Kazuhide Ueno, Kaoru Dokko, Masayoshi Watanabe
- 2Pa079 Composite electrolytes based on sulfide-based solid electrolytes and highly concentrated electrolytes.
Saiki Shiori, Jiyoung Ock, Ryoichi Tatara, Kazuhide Ueno, Kaoru Dokko, Masayoshi Watanabe
- 2Pb080 Ether- and thioether-linked naphthalene-based twist-bend nematogens
Yuki Arakawa, Yuko Ishida, Hideto Tsuji
- 2Pa081 Fabrication of Cholesteric-Liquid-Crystalline Elastomer Films with Precisely Designed Helical-Axis Orientation
Maki Yanagihara, Shohei Sugiyama, Kyohei Hisano, Osamu Tsutsumi
- 2Pb082 Evaluation of repetitive adhesion property of hydrogen bonded N-benzylideneaniline liquid crystal polymeric composite
Shika So, Daijiro Kojima, Mizuho Kondo, Nobuhiro Kawatsuki
- 2Pa083 Synthesis and electronic charge transport properties of oligo(p-phenylenevinylene) derivatives exhibiting a chiral nematic phase
Masaki Kunihiro, Eigo Shimaoka, Masahiro Funahashi
- 2Pb084 Development of liquid crystalline ferroelectric semiconductor bearing a lactate ester moiety
Yuji Matoba, Yuki Mori, Masahiro Funahashi
- 2Pa085 Photoalignment of hetero smectic lamellar structure with SmE phase
Aoi Seta, Mitsuo Hara, Shusaku Nagano, Takahiro Seki

- 2Pb086 Orientation behavior of liquid crystalline polymers sandwiched between solid interfaces
Mari Furuichi, Mitsuo Hara, Shusaku Nagano, Takahiro Seki
- 2Pa087 Confocal laser scanning microscopic observation of electric field-induced response behavior in liquid crystal/polymer composite material
Naoya Arita, Yasushi Okumura, Hirotsugu Kikuchi
- 2Pb088 Reduction of polymer concentration in polymer stabilized blue phase for lowering the driving voltage
Zehui Qin, Yasushi Okumura, Hirotsugu Kikuchi
- 2Pa089 Photoinduced transformation of polymer gels containing photoreactive naphthacenequinone cross-linked structures
Masaya Moriyama, Ikumi Shimada
- 2Pb090 Development of Two-Component Gelators Based on Tartaric Acid and Azobenzene Derivatives
Manami Kobayashi, Masashi Yamada, Ayumi Tomatsu, Kazuhiro Yabuuchi, Masaya Moriyama
- 2Pa091 Reinforcement of supramolecular gels using coumarin derivatives
Kazuhiro Yabuuchi, Nanako Matsuo, Haruka Akitaya, Masaya Moriyama
- 2Pb092 Evaluation of correlation between photoisomerization of spiropyran and phase-separated structure of block copolymers
Koki Momota, Keiichi Imato, Tomoyasu Hirai, Ichiro Imae, Yousuke Ooyama
- 2Pa093 Photocontrol of viscoelasticity with network poly(dimethyl siloxane)s via reset and reconstruction of polymer topologies
Minami Oka, Taro Toyota, Satoshi Honda
- 2Pb094 Synthesis and properties of photoresponsive elastomers using azobenzene-modified polyrotaxane
Takumi Kabutou, Kensuke Katsuyama, Masatoshi Kidowaki, Kohzo Ito, Yuki Hayashi
- 2Pa095 Humidity-sensitive microphase-separated structure of a hygroscopic block copolymer
Tomoya TAKESHITA, Mitsuo HARA, Shusaku NAGANO, Takahiro SEKI
- 2Pb096 Synthesis and characterization of polymers with thermally stable and photoresponsive molecular machines
Ayane Sasaki, Keiichi Imato, Ichiro Imae, Yousuke Ooyama
- 2Pa097 Azobenzene-containing block copolymers as light-induced reversible adhesives. Effect of molecular weight, composition, and block copolymer architectures on the adhesive properties
Shotaro Ito, Haruhisa Akiyama
- 2Pb098 Development of soft materials showing near-infrared-to-visible photon upconversion
Kentaro Tanaka, Youichi Sasaki, Masaaki Morikawa, Nobuhiro Yanai, Nobuo Kimizuka
- 2Pa099 Synthesis and luminescence properties of 9,10-bis(phenylethynyl)anthracene derivatives
Atsumi Oriyama, Kai Okawa, Tomoe Ichikawa, Nami Kumagai, Yoshimitsu Sagara, Kazuhiro Yabuuchi
- 2Pb100 Synthesis of porphycene-polymer hybrids for enhanced emission properties
Toshikazu Ono, Hyuga Shinjo, Yoshio Hisaeda

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 2Pb102 Construction of nucleo-sphere equipped with photo-cleavable peptide-DNA conjugate
Kenji Hatta, Hiroshi Inaba, Kazunori Matsuura
- 2Pa103 Design and the function of saccharide modified polypeptide nanogels
Kenta Okada, Tomoki Nishimura, Shinichi Sawada, Yoshihiro Sasaki, Kazunari Akiyoshi
- 2Pb104 Self-assembly of Integrin Ligands on Apical Membrane Inhibits the Migration of Glioma Cell
Dingze Mang, Sona Roy, Hong Huat Hoh, Xia Wu, Jiahao Zhang, Ye Zhang
- 2Pa105 Dual alkylated ligands with high affinity to human serum albumin to enhance the blood

retention

DUNG VIET DUONG,SUN XIZENG,ELNAZ NAKHAEI,KISHIMURA AKIHIRO,TAKESHI MORI,YOSHIKI KATAYAMA

- 2Pb106 Detoxification of melittin by D-amino acids
Sayuki Kanemitsu,Yudai Tominaga,Kanon Nishimura,Haruka Sakurai,Atsuo Tamura,Tatsuo Maruyama
- 2Pa107 A Highly Enantioselective Reaction Field Composed of a Transition Metal Complex and a Monoclonal Antibody
Keisuke Murata,Takuma Adachi,Yuichiro Kobayashi,Akira Harada,Hiroyasu Yamaguchi
- 2Pb108 Molecular-assembly of transmembrane protein-photosensitizer complexes for photoinduced hydrogen generation
Sota Murata,Hiroki Kojima,Yoko Kondo,Masaki Ihara,Takehisa Dewa,Masaharu Kondo
- 2Pa109 Screening and Characterization of Peptides with Specific Affinities for Poly(tetrafluoroethylene)
Yuichi Kida,Tatsuya Niwa,Toshiki Sawada,Tetsuya Kadonosono,Masashi Maruyama,Tetsuya Iwasaki,Takeshi Serizawa
- 2Pb110 Over expression of functional proteins by auto induction in recombinant E.coli
Kaho Kataoka,Akinori Takasu
- 2Pb112 Fabrication of Collagen Micro Fibers with Ultra High Elasticity by Controlling Water Content
Noboru Hiraoka,Dong-Hee Kang,Michiya Matsusaki
- 2Pa113 Fabrication of diameter-controlled collagen fibers and their application for elasticity-controllable scaffolds.
Tomoyuki Suezawa,Naoko Sasaki,Ryohei Katayama,Michiya Matsusaki
- 2Pb114 Development of Oxygen-Releasable Scaffolds
Daisuke Tomioka,Hiroataka Nakatsuzi,Yoshiki Sawa,Shigeru Miyagawa,Michiya Matsusaki
- 2Pa115 Fabrication and Evaluation of Novel Tissue Regenerative Vascular Graft based on Silk Fibroin
Eri KOYANAGI,Chiemi SAKATA,Natsui HATTORI,Shuhei TARA,Yasumoto NAKAZAWA
- 2Pb116 Fabrication of Peptide-modified Silk Fibroin-Polyurethane Composite Material for Cardiovascular Sheet
Anri YOSHIDA,Tadakatsu HONDA,Chikako NAKAZAWA,Ryo TANAKA,Ryo SHIMADA,Shintaro NEMOTO,Yasumoto NAKAZAWA
- 2Pa117 Construction and function of polysaccharide microsphere as cell scaffold
Shunya Hayashi,Hiroataka Kubo,Yoshihiro Sasaki,Shin-ichi Sawada,Sada-atsu Mukai,Eriko Marukawa,Hiroyuki Harada,Kazunari Akiyoshi
- 2Pb118 Development of a ligament like tissue using decellularized membranous tissue
Tsuyoshi Kimura,Yukina Yoshida,Mika Suzuki,Hironobu Takahashi,Tatsuya Shimizu,Naoko Nakamura,Akio Kishida
- 2Pa119 Mechanical properties of the fibrillin-elastin hybrid gel for cell-scaffold
Junsai Kogure,Mitsuki Koyama,Kota Inoue,Masaki Hirukawa,keiichi Miyamoto
- 2Pb120 Evaluation of cell function on cell aggregation inducing peptide immobilized substrate
Ikumi Amimoto,Yoshiaki Hirano
- 2Pa121 3D dynamic cell culturing using porous DN gel
Hinako Kato,Tomas Sedlacik,Takayuki Nonoyama,Masumi Tsuda,Seiichiro Ishihara,Shinya Tanaka,Hisashi Haga,Jian Ping Gong
- 2Pb122 Effect of Gravity and Stiffness on Collective Cell Migration
Soichiro Ogura,Yugo Omura,Masao Kamimura
- 2Pa123 Induced cell adhesion by cell penetrating peptide conjugated PEG lipids and the influence of molecular chain length
Yuya Goto,Makoto Noiri,Naoko Nakamura,Kazuhiko Ishihara,Yuji Teramura
- 2Pb124 Evaluation of cell culture medium with addition of anti-freeze peptide
Kaya Ichikawa,Yoshiaki Hirano

Presentation Time
<c = 12:50~13:30>
<d = 13:30~14:10>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 2Pc001 Lewis Pair Radical Polymerization of Various Polar Vinyl Monomers
Mayo Horibe, Kazumasa Mori, Shin-ichi Matsuoka, Masato Suzuki
- 2Pd002 RAFT polymerization by Lewis pair catalysts
Tomoko Koyama, Atsushi Shimizu, Shin-ichi Matsuoka, Masato Suzuki
- 2Pc003 Morphology control via RAFT emulsion polymerization-induced self-assembly
Atsushi Takashima, Ryuya Kawakami, Shinji Sugihara, Yasuhi Maeda
- 2Pd004 Unusual reactivity of saccharin methacrylamide in radical polymerization and the application as a key monomer for sequence control
Yuki Kametani, Makoto Ouchi
- 2Pc005 Development of high refractive index polymers by radical polymerization of vinyl sulfide derivatives having heteroaromatic ring
Ibuki WATANABE, Yugo Sato, Hideharu Mori
- 2Pd006 Solid-State Polymerization Reactivity of Cocrystal Composed of Asymmetrical Tetrakis(alkoxycarbonyl)quinodimethane and Tricyanoquinone Methide Imine
Yuta Washio, Takahiro Uno, Masataka Kubo, Takahito Itoh, Norimitsu Tohnai, Mikiji Miyata
- 2Pc007 Trommsdorff effect and phase separation during bulk polymerization
Eri Kato, Yuya Shinagawa, Yasuhito Suzuki, Akikazu Matsumoto
- 2Pd008 Efficient Syntheses of Alternating Polyacrylamides: Rational Design of Transformable Divinyl Monomer and Sequence Functions
Kentaro Shibata, Yuji Daito, Yuki Kametani, Makoto Ouchi
- 2Pc009 Controlled Radical Polymerization of an Alkenyl Boronate for End-Group Functionalization Based on Boronyl Side Chain
Tomoaki Kanazawa, Takehiro Itami, Tsuyoshi Nishikawa, Makoto Ouchi
- 2Pd010 Precision Polymerization of Various Vinyl Catechol Derivatives for Novel Functional Polymers
Shiho Tanizaki, Tomohiro Kubo, Kotaro Satoh
- 2Pc011 Synthesis and Polymerization of α -functionalized vinylsulfonates
Taiki Kitagawa, Mai Yamashita, Yasuhiro Kohsaka
- 2Pd012 Synthesis and Polymerization of Vinyl Ketone Derived from Naturally-Occurring Cyclic Ketone
Yuki UCHIYAMA, Taku ARITSU, Takenori NISHIDA, Mineto UCHIYAMA, Masami KAMIGAITO
- 2Pc013 Synthesis and properties of polymers having [3.n]carbazolophane moiety
Hitoyasu Hashiguchi, Kazushige Hori, Keita Tani, Kenta Goto, Fumito Tani, Keita Sakakibara, Yoshinobu Tsujii
- 2Pd014 Synthesis and Polymerization of α -functionalized acrylamides
NYAMDOLGOR CHINBAT, Keiichiro Ito, Ichiro Mori, Yasuhiro Kohsaka

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 2Pd016 Mechanical Properties of Single Helical Polyaspartate Chain by Nanofishing Using Atomic Force Microscopy
Tomonari Watanabe, Hidemine Furuya, Xiaobin Liang, Ken Nakajima
- 2Pc017 Sub-micro structure analysis in polymer materials by new IR microscopy
Hanae Kobayashi, Naoki Baden, Norio Urayama
- 2Pd018 Evaluation of Rubber Elasticity of Network Polymers using Molecular Dynamics Simulations

hiroshi sasaki

- 2Pc019 Hydrogel undergoing thermally induced irreversible change in mechanical properties : Design and properties of a novel hydrogel prepared with polyhedral oligomeric silsesquioxane crosslinker
Tenki Hikida, Shohei Ida, Shokyoku Kanaoka
- 2Pd020 Synthesis and Response Characteristics of Hydrogels Uniformly Incorporating Core-Crosslinked Star-Shaped Polymers with Multiple Thermoresponsive Free-End Chains
Shogo Toda, Shohei Ida, Msatoshi Oyama, Hiroki Takeshita, Shokyoku Kanaoka
- 2Pc021 Study on the intermolecular interaction between water and super absorbent polymer by low-frequency Raman and IR spectroscopy
Tatsuro Nasu, Harumi Sato, Yukihiro Ozaki
- 2Pd022 Volume phase transition behavior of hydrogel consisting of isotactic copolymer segments composed of N-ethylacrylamide and N-isopropylacrylamide
Tomoaki Uemura, Menghao Li, Tomohiro Hirano, Miyuki Oshimura, Koichi Ute
- 2Pc023 Relationship between Curing Process of Epoxy Resin and Mechanical Properties
Ryoya Ida, Mika Aoki, Satoru Yamamoto, Keiji Tanaka
- 2Pd024 Control of cross-linking of high-refractive-index polymers by copolymerizations of styrenic bismuth monomers with different numbers of polymerizable groups and evaluation of their physical properties
Yoshimasa Matsumura, Kikuo Furukawa, Miyuki Miyamoto, Yoshio Nishimura, Bungo Ochiai
- 2Pc025 Synthesis and characterization of joint-linker type ionic conductive gel by thiol-ene reaction of multi-functional thiol and a diallyl compound with ionic liquid moiety
Aoi Inagaki, Naohumi Naga, Kumkum Ahmed
- 2Pd026 Synthesis and properties of joint-linker type gels and porous polymers using Michael addition reaction of multifunctional acrylate and polysulfide dithiol compounds
Shin Odagiri, Naofumi Naga
- 2Pc027 Synthesis and characterization of joint-linker type porous polymers using addition reaction of multi-functional thiol and diisocyanate compounds
Masumi Jinno, Naohumi Naga
- 2Pd028 Synthesis and characterization of joint-linker type network polymers using Thiol-ene reaction of multi-functional primary thiol compound and polyethylene glycol diacrylate
Kohei Yamada, Naofumi Naga
- 2Pc029 Effect of molecular weight on tensile properties in polyethylene gel sheets
Kanki Oguro, Yusuke Hiejima, Koh-hei Nitta
- 2Pd030 Macroscopic yield mechanism of DN gel under uniaxial tension
Masahiro Yoshida, Ryuji Kiyama, Daniel R King, Takayuki Kurokawa, Jian Ping Gong
- 2Pc031 Preparation of topological gels using soluble "Molecular Net" and penetrating polymerization and their physical properties.
ryota Dohi, Fumika Seko, Yuta Yoshizaki, Akinori Kuzuya, Yuichi Ohya
- 2Pd032 Visualization of inhomogeneous distribution of nanoparticle fillers in rubber/filler under strain
Mikihito Takenaka, Hiroki Ogawa, Yukihiro Nishikawa, Ryo Mashita, Kenta Mitani, Yuki Watanabe
- 2Pc033 Study on Network Domains in Sulfur Cross-linked Isoprene Rubber by STXM
Kosuke Miyaji, Yuta Sakaki, Yuko Ikeda
- 2Pd034 Crack growth rate in polymer gels with homogeneous networks
Chiaki Saito, Naoyuki Sakumichi, Takamasa Sakai
- 2Pc035 Preparation and Phase-Separated Structures of Block Copolymer/Porphyrin Metal Complex via Hydrogen Bonding
Atsushi Noro, Hiroto Asai, Kimitaka Higuchi, Yushu Matsushita
- 2Pd036 Synthesis and Mechanical Properties of Non-covalent Bonded Elastomers Based on Styrenic Block Copolymers

Takato KAJITA, Haruka TANAKA, Atsushi NORO, Yushu MATSUSHITA, Atsushi NOZAWA, Ryoji ODA, Sadaharu HASHIMOTO

- 2Pc037 Molecular aggregation structure and mechanical property of polyurethane adhesive under shear deformation
Kakeru Obayashi, Yoko Iki, Kazutaka Kamitani, Ken Kojio, Atsushi Takahara
- 2Pd038 Structural Analysis of crosslinking junctions of vulcanized natural rubber through rubber-state NMR spectroscopy
Seiichi Kawahara, Yoshimasa Yamamoto
- 2Pc039 Nanoscopic Heterogeneity in an Acrylic Adhesive
Yihao Wu, Atsuomi Shundo, Keiji Tanaka
- 2Pd040 Universal thermodynamics of osmotic pressure and elastic modulus of polymer gels
Naoyuki Sakumichi, Takashi Yasuda, Yuki Yoshikawa, Takamasa Sakai
- 2Pc041 Effect of hydrogel constitutive parameters on the surface free energy
Takahiro Otsuka, Yuki Akagi
- 2Pd042 Analysis of nano-scale structure inhomogeneity at the adhesive interface
Mikihito Takenaka, Hiroki Ogawa, Yuki Watanabe, Kenta Mitani, Satoshi Kuwata
- 2Pc043 Structure and mechanical behavior of physical gel with ideal network structure
Masashi Ohira, Xiang Li, Mitsuru Nito, Mitsuhiro Shibayama
- 2Pd044 Formation of PIC (Polyion Complex) micelles with sulfobetaine as shell and its stimuli-responsivity
Dongwook Kim, Hideki Matsuoka, Yoshiyuki Saruwatari
- 2Pc045 Thermal phase transition of pseudo-polyrotaxane-based self-assembled nanostructure
Naoki Ando, Rina Maeda, Shuntaro Uenuma, Hideaki Yokoyama, Kohzo Ito
- 2Pd046 Functional Enhancement Related to Nanohybridization and Organized Films of Single-Walled Carbon Nanotubes Using Organo-Modification Method
Yoshinori Abiko, Takuto Hayasaki, Ahmed A. ALMARASY, Atsuhiko Fujimori
- 2Pc047 Development of non-aqueous liquid transport system using liquid marble stabilized by polyaniline particles
Makoto Uda, Hiroyuki Mayama, Tomoyasu Hirai, Yoshinobu Nakamura, Syuji Fujii
- 2Pd048 Preparation of Polysaccharide Composite Films Using Pressure Roll Press Techniques
Takanori Ogisu, Masahiro Sakaguchi, Yusuke Yataka, Mineo Hashizume
- 2Pc049 Elucidation of adsorption state of polybenzimidazole on carbon material surface by adsorption isotherm measurement
Nana Kayo, Tsuyohiko Fujigaya
- 2Pd050 Formation of Organized Molecular Films of Fluorinated Gemini-Type Diamide Derivatives Having Different Lengths with Thixotropic Induced-Ability to Solvents
Haruka MARUYAMA, Rei OKANO, Eiichi SATOU, Tomoko YAJIMA, Atsuhiko FUJIMORI
- 2Pc051 Stabilization of vertically oriented nanocylinders formed by fusion of nanophase separation and microphase separation using cross-linking reaction
wataru kukai, atsushi narumi, masaya mitsuishi, jun matsui
- 2Pd052 Curvature-dependent assembly of gold nanoparticles using cyclodextrin inclusion
Kun Xiong, Hideyuki Mitomo, Yusuke Yonamine, Kuniharu Ijro
- 2Pc053 Structural coloration by inverse opal structure from artificial melanin particles
Michinari Kohri, Kobayashi Akari, Keiki Kishikawa
- 2Pd054 Development of nanofilms with highly ordered one-dimensional mesochannels having metal complexes on inner wall
Maki Komoda, Keita Nakao, Sadayuki Asaoka
- 2Pc055 Ordered Structure Transition of Zwitterionic Block Copolymers in Aqueous Solutions
Masaya Takahashi, Yuji Higaki
- 2Pd056 Structural Analysis of DNA-functionalized Gold Nanoparticles Aggregated by Depletion Effect
Yoshifumi Sakamoto, Makoto Takemasa, Masahiro Fujita, Mizuo Maeda

- 2Pc057 Investigation of the barnacle settlement on microstructures with controlled surface chemical composition.
Kei Mikami, Ai Momose, Takayuki Murosaki, Yuji Hirai, Yasuyuki Nogata, Masatsugu Shimomura
- 2Pd058 Preparation of Electric-Field Responsive Liquid Crystal Nanocapsules by Polymerization of O/W Emulsion Monomer Droplets
Reina Kojima, Michinari Kohri, Tatsuo Taniguchi, Keiki Kishikawa, Takashi Karatsu
- 2Pc059 Preparation of thin self-standing 4-aminocinnamic acid based polyamide nano-membranes
Yasuyoshi Funahashi, Kenji Takada, Amit Kumar, Hideyuki Murata, Tatsuo Kaneko
- 2Pd060 Fabrication and evaluation for supramolecular assemblies of metal complexes induced by cationic glutamide derivatives as templates
Masahiro Matsunaga, Yutaka Kuwahara, Tatsumi Iwamoto, Shohei Hamada, Hiroataka Ihara, Makoto Takafuji
- 2Pc061 External environment response of wettability on the polymer-modified glass surface
Shoto Moriyama, Junji Watanabe
- 2Pd062 Porphyrin-functionalized chiral molecular assembly for multi-chiro-informative system
Sayaka Mashima, Naoya Ryu, Yutaka Kuwahara, Makoto Takafuji, Hirokuni Jintoku, Reiko Oda, Hiroataka Ihara
- 2Pc063 Synthesis of polypyrrole derivatives by solvent-free chemical oxidative polymerization and their use as a liquid marble stabilizer.
Musashi Seike, Tomoyasu Hirai, Yoshinobu Nakamura, Syuji Fujii
- 2Pd064 Salt Concentration-dependent Structure Modulation of Zwitterionic Diblock Copolymer Aggregates
Akane Shimizu, Yuji Higaki
- 2Pc065 Evaluation of Dispersion Stability of Single Walled Carbon Nanotubes in Organic Solvents with Low Dielectric Constant
Taiki Ishii, Angana Borah, Naoki Tanaka, Tsuyohiko Fujigaya

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 2Pd066 Properties of poly(acrylic acid)-based polymer gel electrolytes and application as a binder polymer in lithium batteries
Yuichiro Saika, Hisashi Kokubo, Kazuhide Ueno, Kaoru Dokko, Masayoshi Watanabe
- 2Pc067 Preparation and Characterization of the Electrolytes based on Branched Ionic Liquids.
Toshiki Ohata, Reona Honda, Tatuya Nakamura, Takeshi Kakibe, Hajime Kishi
- 2Pd068 Preparation and evaluation of Na-conducting polymer electrolytes
Yuji Yokomaku, Koji Hiraoka, Masaki Kato, Kohei Inaba, Hibiki Miyauchi, Shiro Seki
- 2Pc069 Preparation and Evaluation of Polymer Electrolytes with Low-solubility of Lithium-polysulfide
Hibiki Miyauchi, Kohei Inaba, Keitaro Takahashi, Yuki Ishino, Tatsuya Kawamura, Shiro Seki
- 2Pd070 Integration of a molecular catalyst and a photosensitizer on a polymeric core-shell nanoparticle for efficient photochemical hydrogen evolution
Takafumi Enomoto, Aya Mizutani Akimoto, Ryo Yoshida
- 2Pc071 Photovoltaic property of circularly arranged multilayer porphyrin array film
Shigeya Aoki, Sadayuki Asaoka
- 2Pd072 Synthesis of all-conjugated n-type multiblock copolymer and its application to non-fullerene organic photovoltaics
Aoto Kato, Chu-Chen Cheuh, Tomoya Higashihara
- 2Pc073 Enhancement of Molecular-Level Ordering of π -Conjugated Polymer Chains in Polymer/Polymer Blend Films
Yunju Na, Anjar Taufik Hidayat, Noboru Ohta, Hiroataka Kojima, Min-Cherl Jung, Masakazu Nakamura, Hiroaki Benten

- 2Pd074 Local Electron Transport Characteristics of n-Type Conjugated Polymer Film Visualized by Conductive AFM
Hiroaki Benten,Anjar Taufik Hidayat,Hiroataka Kojima,Min-Cherl Jung,Masakazu Nakamura
- 2Pc075 Nanoscale Photovoltaic Characteristics of Polymer Solar Cells Revealed by Photoconductive AFM
Yuji Yamagata,Anjar Taufik Hidayat,Hiroataka Kojima,Min-Cherl Jung,Masakazu Nakamura,Hiroaki Benten
- 2Pd076 Development of π -conjugated polymers based on naphthobispyrazinebisimide as n-type semiconducting materials
Kenta Okamoto,Tsubasa Mikie,Masahiko Saito,Kimihiro Komeyama,Hiroto Yoshida,Itaru Osaka
- 2Pc077 Na-ion Battery with Tetrazines as Electrode Active Materials
Masaki Furusawa,Yuchao Sun,Seiko Fujiwara,Shigeto Okada,Ken Albrecht
- 2Pd078 A dithienonaphthobisthiadiazole-based π -conjugated polymer for high-efficiency organic solar cells
Tomokazu Morioku,Tsubasa Mikie,Kimihiro Komeyama,Hiroto Yoshida,Masahiko Saito,Itaru Osaka
- 2Pc079 Impact of Charge Recombination on the Fill Factor of Polymer Blend Solar Cells
Ryo Sato,Shota Kubota,Hiroataka Kojima,Min-Cherl Jung,Masakazu Nakamura,Hiroaki Benten
- 2Pd080 Extraction and Doping of Semiconducting Single-walled Carbon Nanotubes to Improve their Thermoelectric Properties
Angana Borah,Naoki Tanaka,Tsuyohiko Fujigaya
- 2Pc081 Thermoelectric properties of a conducting polymer doped with ionic liquid introduced by anion exchange
Hiroki Uehara,Keiichi Imato,Yousuke Ooyama,Ichiro Imae
- 2Pd082 Fabrication of n-type carbon nanotube by vapor deposition
Ryohei Yamaguchi,Motohiro Tomita,Kaito Oda,Takanobu Watanabe,Tsuyohiko Fujigaya
- 2Pc083 Step- π -conjugated polymer(115) Ferrocene introduced macromolecular wire bonding to Au electrode
Takumu Yanai,Haixuan GUO,Hiroyuki Aota
- 2Pd084 Design and synthesis of high performance electrochemical catalyst composed of nanocarbons and metal oxide
Jin Nishida,Shoichi Toh,Junko Matsuda,Naotoshi Nakashima
- 2Pc085 Bifunctional Pt/Ir nano-particles decorated on functionalized acetylene black for oxygen reduction and evolution reaction catalysis in aqueous and organic electrolytes
LiHang Zhou,Rajashekar Badam,Noriyoshi Matsumi
- 2Pd086 Charge/discharge performance of Mg batteries using polymer-coated cathode active materials
Kazumasa Masaki,Yoichi Tominaga
- 2Pc087 Preparation of pH-responsive gel using Poly(N-methacryloyl glycine)
Daisuke Sawaguchi,Toru Hoshi,Takao Aoyagi
- 2Pd088 Gelation mechanism of konjac and its application to temperature-responsive gel
Koumei Harajiri
- 2Pc089 Acceleration effect of coexisted peptide on the thermo-responsive beta-sheet transition of helical peptide aggregates
Ryota Sugino,Yosuke Oishi,Masayoshi Tanaka
- 2Pd090 Preparation and integration of heat-responsive gel particles inspired by mussel adhesive protein
Shogo NAKAZAWA,Keito YAMAKAWA,Tetsu MITSUMATA,Norio TSUBOKAWA,Qiliang ZHOU,Yasuo SAIJO,Takeshi YAMAUCHI
- 2Pc091 Fabrication of thermo-responsive permeation film with nanochannels induced by microphase-separation.

Taishi Hanaoka, Yousuke Niko, Shigeru Watanabe, Shingo Hadano

- 2Pd092 Preparation of temperature-responsive gels having topological cross-linking and their properties
Fumika Seko, Ryota Dohi, Yuta Yoshizaki, Akinori Kuzuya, Yuichi Ohya
- 2Pc093 Bidirectional mobility of photomechanical materials using polypeptide gel and its origin.
Toshihiro Hiejima, Masahiro Imai
- 2Pd094 Development of Cyclophane-based Supramolecular Mechanophores
Yoshimitsu Sagara
- 2Pc095 Self-oscillating triblock terpolymers with autonomous sol-gel oscillation driven by a built-in oxidizing agent
Toshiki Yoshizawa, Michika Onoda, Takeshi Ueki, Ryota Tamate, Takafumi Enomoto, Aya Akimoto, Ryo Yoshida
- 2Pd096 Investigation of gelation process and oscillating behavior of self-oscillating gels fabricated by polymer crosslinking method
Komi Sato, Eunjong Lee, Aya Akimoto, Ryo Yoshida
- 2Pc097 Preparation and properties of self-healing polyetherurethanes utilizing host-guest interaction of cyclodextrin and adamantane
Kaito Sugane, Naozumi Teramoto, Mitsuhiro Shibata
- 2Pd098 Evaluation of a Hydrophobically Modified Hydroxypropylmethylcellulose/Cyclodextrin Hydrogel as a Drug Carrier
Daisuke Iohara, Hiroki Akahoshi, Makoto Anraku, Kaneto Uekama, Fumitoshi Hirayama
- 2Pc099 Synthesis of Polymer Gels Containing 24-Crown-8 Ether Moieties for Removing Cesium Ions
Tomonari Tanaka, Da-Ming Wang, Yuji Aso, Hitomi Ohara
- 2Pd100 Preparation and properties of self-healing castor oil-based polyurethanes utilizing host-guest interaction of cyclodextrin and adamantane
Takumi Sekiya, Naozumi Teramoto, Mitsuhiro Sibata
- 2Pc101 Measurement and analysis of oxygen diffusion and reaction rate in spherical hydrogel entrapping ammonia-oxidizing bacteria
Ryo Aoyagi, Akihiko Terada, Hideaki Tokuyama
- 2Pd102 Dynamic control of surface topography in a hydrogel toward cell alignment
Aya Tanaka, Riku Tanakahshi, Yuko Ueno
- 2Pc103 Introduction of ointment base using PEO-based material having allyl group in side chain
Effect of difference in hydrophobic group on solubility and spreadability.
Kazuki Nonaka, Atsuki Iriyama, Keiji Yamashita, Yoshihiro Noda
- 2Pd104 Biodegradable Polymer Grafting from Hollow-type Spherical Bacterial Cellulose Gel by Surface-initiated Ring opening Graft Polymerization Using Diphenylphosphate
Takumi Yoshida, Toru Hoshi, Takao Aoyagi
- 2Pc105 Preparation and evaluation of diatom frustule composite gel
Yoshiyuki Doi, Yuji Hirai, Masatsugu Shimomura
- 2Pd106 Preparation of Ionomer-type vitrimers utilizing by polyesters with side-chain carboxyl groups
Haruna Obara, Mikihiro Hayashi, Akinori Takasu, Shoichi Kutsumizu, Youhei Miwa
- 2Pc107 Effect of Alkali Treatment on Mechanical Property of PVA Hydrogel
Yutaka Kasai
- 2Pd108 Relationship between mechanical strength and cross-linking degree of organic network of inorganic/organic double network ion gel
Eiji Kamio, Masayuki Kinoshita, Tomoki Yasui, Atsushi Matsuoka, Hideto Matsuyama
- 2Pc109 Quantitative analysis of organic liquid impregnation behavior into nanofibrous membranes
Hidetoshi Matsumoto, Ikuo Uematsu, Tomomichi Naka, Yoko Tokuno, Yasutada Nakagawa
- 2Pd110 Structure and Anti-fouling Property of PVDF/Zwitterionic Diblock Copolymer Blend Porous Membranes

Shogo Satoh,Shingo Hikita,Yuji Higaki

- 2Pc111 Optimization of antifouling analysis method of high durability antifouling coating surface
Takahiro Kawaguchi,Takashi Isogai,Hiroyasu Katou,Tsutomu Nemoto,Daisuke Ishii
- 2Pd112 Wettability of oil-impregnated thin films fabricated by plasma polymerization
Soma Kitamura,Daisuke Ishi
- 2Pc113 Correlation of Dynamic Wettability in Liquid Media on Surface Microstructures with Different Liquid Repellency
Maria Inukai,Daisuke Ishii
- 2Pd114 Synthesis of carboxybetaine-type copolymers with various spacer lengths and evaluation of surface properties
Nobuo MURASE,Hideharu KURIOKA,Tsuyoshi ANDO,Hiroharu AJIRO
- 2Pc115 Development of liquid crystal/polymer slippery interface by silane coupling agent condensate
Yu Fukunaga,Yasushi Okumura,Hirotsugu Kikuchi
- 2Pd116 Change of substrate surface characteristics by photodegradable silane coupling agent with POSS
Kohei Shigeta,Takuma Igari,Yuta Ono,Noriko Chikaraishi,Kazuo Yamaguchi
- 2Pc117 Surface wettability functionalization by mimicking pitcher-plant-inspired surfaces
Kengo Manabe
- 2Pd118 Water Adsorption and Desorption Ability of P(NIPAAm) Combined on Glass Surface
Tomoki Ida,Aoi Sasaki,Azusa Yamaguchi,Hisashi Honda
- 2Pc119 Photo-adhesion using a monomer having a 2-mercaptopyridyl group
Masahiro Furutani,Daiki Fujihira,Koji Arimitsu
- 2Pd120 The investigation of non-electrolytic plating on recycled polyethylene surface
Ryoko Nakano,Hiroshi Sekiguchi,Yao Shigeru
- 2Pc121 Patterning of silver nano-particulate ink using a photoresponsive phosphonic acid derivative with a hydrophobic POSS
Takahiro Ueta,Takuma Igari,Noriko Chikaraishi,Kazuo Yamaguchi
- 2Pd122 Examination of relation between aqueous solution pH of dopamine-modified carboxymethylcellulose and its adhesion strength.
Yuya ITONO,kozo MATSUMOTO
- 2Pc123 Low Friction Behavior of Interfacial Adsorbed Polystyrene
Kono Nishikawa,Yudai Nishiwaki,Yoshihisa Fujii,Naoya Torikai
- 2Pd124 Elucidation of Reaction and Adhesion State of Polyimide-Copper Interface
Yu Shoji,Masao Tomikawa

Presentation Time

<e = 14:50~15:30>

<f = 15:30~16:10>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 2Pe001 Cationic RAFT Polymerization Using Acridinium Salt as Photoredox Catalyst
Marina MATSUDA,Tomoaki YOKOTA,Masato MIYAJIMA,Mineto UCHIYAMA,Masami KAMIGAITO
- 2Pf002 Cationic RAFT Polymerization Using C-C Double Bond-Based Chain-Transfer Agent
Takayuki TANIMOTO,Misaki GOTO,Masato MIYAJIMA,Mineto UCHIYAMA,Masami KAMIGAITO
- 2Pe003 Controlled Cationic Polymerization and Copolymerization of Isopropenyl Silyl Ether
Naoki FUJIWARA,Daichi WATANABE,Takenori NISHIDA,Mineto UCHIYAMA,Masami KAMIGAITO
- 2Pf004 Anionic polymerization of (Z)-1-phenyl[3]dendralene
Tsukasa Takagi,Tomoyuki Toda,Katsuhiko Takenaka

- 2Pe005 Anionic polymerization of diphenylethylene derivatives
Daisuke Tanioka,Kaoru Adachi
- 2Pf006 Anionic Polymerization of (Meth)acrylic Thioester by Zwitter Ionic Initiation
Sato Ohashi,Yuna Ishikawa,Takumi Kaneko,Shin-ichi Matsuoka,Koji Takagi,Masato Suzuki
- 2Pe007 Living Anionic Polymerization via Reversible Chain Transfer to C-H Bond
Natsumi OHIRA,Takenori NISHIDA,Mineto UCHIYAMA,Masami KAMIGAITO
- 2Pf008 Synthesis of multibranching polymers from trimethylsilyl protected poly(p-methylstyrene)
Kosuke Nakano,Kaoru Adachi
- 2Pe009 Synthesis of cyclic poly(methyl sorbate) prepared by ring-closing without need of highly diluted condition and direct observation
Yuki Muramatsu,Akinori Takasu,Masahiro Higuchi
- 2Pf010 Copolymerization of Polar Vinyl Monomers and γ -Butyrolactone Catalyzed by N-Heterocyclic Carbene
Takuhiro Nomura,Makoto Ryukan,Shin-ichi Matsuoka,Masato Suzuki
- 2Pe011 Synthesis of poly(β -methyl vinyl ether) with a hydroxy group
kouhei watanabe,ryuya yamada,takeshi namikoshi,shinji watanabe
- 2Pf012 Cationic Copolymerization of Vinyl Monomers and 1,3-Dioxo-2-silacycloalkanes via Concurrent Vinyl-Addition and Ring-Opening Mechanisms and Terpolymerization with Ketone
Ryosuke Hada,Arihiro Kanazawa,Sadahito Aoshima
- 2Pe013 Cationic Polymerization of Isobutyl Vinyl Ether in The Presence of Solvate Ionic Liquid - Effect of Remained Water on The Polymerization Behavior -
Takumi Yuki,Ryotaro Kizu,Tomohiro Hirano,Miyuki Oshimura,Koichi Ute
- 2Pf014 Cationic polymerization of vinyl ether with an adamantyl sulfide
Kazuma Ishikawa,Takeshi Namikoshi,Shinji Watanabe
- 2Pe015 Chain-End Functionalization in Controlled Cationic Alternating Copolymerization of Vinyl Ethers and Conjugated Aldehydes: Synthesis of Degradable Polymers with Functional End Groups
Tomoki Nara,Arihiro Kanazawa,Sadahito Aoshima
- 2Pf016 Cationic polymerization of vinyl monomers with chalcogen bonding catalyst
Nao Sakakibara,Koji Takagi
- 2Pe017 Synthesis of poly(β -methyl vinyl ether) with terpene
Shunsuke Orikasa,Takeshi Namikoshi,Shinji Watanabe
- 2Pf018 Transparent and high thermal conductive materials by beads-on-string-shaped polyureas based on cage ocata-silsesquioxane
Mari Hashimoto,Hiroaki Imoto,Kensuke Naka
- 2Pe019 Influence of the primary structure of syndiotactic PMMA on the inclusion complex formation with [60]fullerene.
Kouta Kajihara,Ituki Tousya,Kouyuu Fumoto,Takehiro Kawauchi
- 2Pf020 Encapsulation of coronene in helical syndiotactic PMMA
Kouyuu Fumoto,Tomohiro Ueno,Kouta Kajihara,Takehiro Kawauchi
- 2Pe021 Novel Molecular-Assemblies Based on Poly Carborane Anions
Yoshino Ohgami,Mutsumi Kimura,Kazunori Miyamoto,Masanobu Uchiyama,Yu Kitazawa
- 2Pf022 The Development of Building Blocks for Novel Molecular Architecture Based on Carborane Anion
Yuhi Ito,Mutsumi Kimura,Junichiro Kanazawa,Masanobu Uchiyama,Yu Kitazawa
- 2Pe023 Synthesis of 18/24 -membered Binary Crownether Compound
Kohei KITAMOTO,Kazuhiro YAMABUKI,Kenjiro ONIMURA
- 2Pf024 Gelation properties of alkylammonium tartrates
Amaki Nakamura,Atsumi Oriyama,Takuya Senda,Kazuhiro Yabuuchi
- 2Pe025 Molecular Sensing via A Sumanene-based Supramolecular Polymer

Hiroaki Mizuno,Hironobu Nakazawa,Akihisa Miyagawa,Makoto Harada,Tetsuo Okada,Yuta Uetake,Yumi Yakiyama,Hidehiro Sakurai,Gaku Fukuhara

- 2Pf026 Gelation of alcohols by a low-molecular-weight gelator produced from natural sugar 1,5-anhydro-D-glucitol
Takahito KAJIKI,Shiro KOMBA,Rika IWAURA
- 2Pe027 Synthesis of arsenacrown ethers and their behaviors to alkali metal ions.
Akifumi Sumida,Ryousuke Kobayashi,Hiroaki Imoto,Kensuke Naka
- 2Pf028 Synthesis and Coordination Behavior of Multidentate Arsenic-Nitrogen Ligands
Hyota Kihara,Susumu Tanaka,Hiroaki Imoto,Kensuke Naka
- 2Pe029 Synthesis and Evaluation of Supramolecular Electrolytes with Boroxine Skeleton (II) - Relationship between number density of boroxine ring and Li ion conductivity -
Kouhei Takahashi,Tamao Uemiya,Yuuko Takeoka,Masahiro Rikukawa,Masahiro Fujita
- 2Pf030 Ligand-dependent AIE-type photoluminescence of soluble gold(I)-thiolate coordination polymers
Midori Murakami,Yukatsu Shichibu,Katsuaki Konishi

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 2Pe031 Structural change of a polymer induced by beta decay of substituted tritium: Application of the linear response theory to molecular dynamics simulation
Susumu Fujiwara,Ryuta Kawanami,HAOLUN LI,Hiroaki Nakamura,Kazumi Omata
- 2Pf032 Preparation 2D nanosheets/polyimide composites films and its mechanical properties.
YIKAI CHENG,Seiji OBATA,Yuta NISHINA
- 2Pe033 Phase transition behavior of ionic liquid crystal in nanopore
Daisuke Fujimoto,Kairi Miyata,Koji Fukao
- 2Pf034 Frequency dependence of permittivity observed at early stage in isothermal crystallization process of polymers
Yuichi Anada
- 2Pe035 Observation of electrode polarization process for polyamide random copolymers
Yuki Iwai,Kairi Miyata,Koji Fukao,Paul Sotta,Didier R. Long
- 2Pf036 Crystal Modulus in the Direction Parallel to the Chain Axis of Tetrafluoroethylene-Vinyl Alcohol Copolymers
Hitomu Mushiaki,Takuya Matsumoto,Takashi Nishino
- 2Pe037 Tensile properties of rolled poly(tetrafluoroethylene) sheets
Daisuke Kimura,Asae Ito,Koh-hei Nitta,Kazufumi Toda,Shunichi Shimatani
- 2Pf038 Molding Compression Pressure Dependence of Mechanical Properties of Polymers
Shuhei Imamura,Keitaro Yamasita,Patchiya Phanthong,Hiroshi Sekiguti,Ryouka Nakano,Shigeru Yao
- 2Pe039 Elucidation of the Toughening Mechanism of the Slide-Ring Material by Adding Filler :Coarse-Grained Molecular Dynamics Simulation Study.
Shuichi Uehara,Yang Wang,Narumasa Miyazaki,Yusuke Ootani,Nobuki Ozawa,Momoji Kubo
- 2Pf040 Fatigue crack growth behavior of injection molded PA11 under ductile/brittle transition condition
Susumu Kuriyama,Takashi Kuriyama
- 2Pe041 Fracture process observations of polymer solids in biaxial tensile tests by using polarized high-speed camera
Ryosuke Kawatoko,Kazutaka Kamitani,Tomoko Kajiwara,Ken Kojio,Atsushi Takahara
- 2Pf042 Multiscale Analysis of Molecular Aggregation State of Glassy Polymers during Fatigue Process
Kento Fukada,Tatsuya Kubozono,Chao-Hung Cheng,Shiori Masuda,Chigusa Nagano,Shuhei Nozaki,Kazutaka Kamitani,Ken Kojio,Atsushi Takahara
- 2Pf044 Coordination-induced enhancement of chiroptical activity of supramolecular gel

Tomoki Kawahara,Nahid Sultana,Naoya Ryu,Shoji Nagaoka,Yutaka Kuwahara,Eugenio Coronado,Kyohei Yoshida,Reiko Oda,Hirotaka Ihara,Makoto Takafuji

- 2Pe045 Orientation Effect on Crystalline Fluoropolymer / Fluorocarbon-modified Single-Walled Carbon Nanotube Nanocomposite by Uniaxial Drawing
Takuto Hayasaki,Yoshinori Abiko,Ahmed A. ALMARASY,Atsuhiko Fujimori
- 2Pf046 Creation and Accurate Structural Analysis of Soft and Hard Nanoparticle Alternating Multilayers for the Development of Theory for Long-Period Stacking Order (LPSO) Structure
Takato OHASHI,Atsuhiko FUJIMORI
- 2Pe047 Polymer intercalation dynamics in metal-organic frameworks
Noriyoshi Oe,Nobuhiko Hosono,Takashi Uemura
- 2Pf048 Preparation of Janus Particles Having Cylindrical Shape by Stirring Method
Miku Onishi,Daiki Tsujita,Wei Li,Toyoko Suzuki,Hideto Minami
- 2Pe049 Enantioselective detection with circular polarized luminescence from chiral supramolecular gel system
Nao Nagatomo,Hisashi Oishi,Naoya Ryu,Shoji Nagaoka,Yutaka Kuwahara,Makoto Takafuji,Hirotaka Ihara
- 2Pf050 Preparation of Polymer Brush Surfaces by Using Surface-drafted Nanoparticles
Kanae Takeuchi,Mio Nakano,Kazuo Yamaguchi,Motoyasu Kobayashi
- 2Pe051 Synthesis of monodisperse crosslinked particles using bi-functional silane compound
Yuya Takeuchi,Ken Mukai,Yuki Fujii,Yohei Okubo,Keisuke Fujita,Toyoko Suzuki,Hideto Minami
- 2Pf052 Surface Modification of Polyurea Thin Films with Polyether Chains
Ryo Tabata,Tomoki Hashizume,Ryosuke Matsubara,Atsushi Kubono
- 2Pe053 Preparation and Characterization of Ferroelectric Nylon 11 Nanosheets
Tomoki WATANABE,Huie ZHU,Tokuji MIYASHITA,Masaya MITSUISHI
- 2Pf054 Colloidal Structure of Disc-like Particles Utilizing Hydrogen Bonds
Mana Fujii,Junichi Tsukiji,Takanori Nakano,Toyoko Suzuki,Hideto Minami
- 2Pe055 Preparation of Oriented Polymer Blend Thin Film by Floating-Film Transfer Method
Satoru Namba,Pandey Shyam,Shuichi Nagamatsu
- 2Pf056 Effect of Surface Modifications on Adhesion Strength between Polymer and Hydroxyapatite
Seri Yabusaki,Mitsumasa Ikemura,Yusuke Yataka,Mineo Hashizume
- 2Pe057 Electrical response of dispersion of imogolite, cylindrical inorganic polymer
Kazuhiro Shikinaka
- 2Pf058 Investigation on the self-assembly of heptazine derivatives in the solutions
Akiyoshi Takeda,Shinobu Uemura
- 2Pe059 Synthesis of polystyrene particles by soap-free emulsion polymerization using amphoteric initiator and their use as a foam stabilizer
Sayaka Fukui,Tomoyasu Hirai,Yoshinobu Nakamura,Syuji Fujii
- 2Pf060 Establishment of Metal Scavenging and Desorption Technologies for Polyguanamine Derivatives Containing Cyclic Parts Using Method of Their Organized Films
Keito Fukushi,Yuji Sibasaki,Atsuhiko Fujimori
- 2Pe061 Monolayers formation on the water surface of novel cationic amphiphilic diblock copolymers and salt effect
Yusuke Hori,Hideki Matsuoka
- 2Pf062 Elucidation of Denaturation Behavior of Biomolecules Utilizing Adsorption at Air / Water Interface
Yusuke KIMURA,Atsuhiko FUJIMORI

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 2Pe063 Variable frequency electrically detected magnetic resonance in pi-conjugated polymer

Yukari Masuno, Naoki Asakawa, Kunito Fukuda

- 2Pf064 Stochastic resonance in organic field effect transistors
Takamitsu Suzuki, Naoki Asakawa
- 2Pe065 Fabrication of neural-synapse-mimicking neuromorphic devices using order-disorder phase transition of pi-conjugated polymers
Shogo Saito, Naoki Asakawa
- 2Pf066 Synthesis and properties of polythiophenes with controlled number and position of alkoxy groups
Ichiro Imae, Toru Takaki, Keiichi Imato, Yousuke Ooyama
- 2Pe067 Electrical and mechanical properties of stretchable electrodes fabricated using self-doped PEDOT
Fumika Miyai, Hirokazu Yano, Hidenori Okuzaki
- 2Pf068 Synthesis and properties of polythiophenes bearing ester side chains
Taiki Menda, Tatsuya Mori, Takuma Yasuda
- 2Pe069 Polarization control and thermoelectric property of semiconducting CNT/ferroelectric polymer laminated film
Ryota Yamasaki, Shohei Horike, Yasuko Koshiba, Tatsuya Fukushima, Kenji Ishida
- 2Pf070 Synthesis of dicyano naphthobisthiadiazole-based π -conjugated polymers and their n-type semiconducting characteristics
Keitaro Iguchi, Tsubasa Mikie, Kimihiro Komeyama, Hiroto Yoshida, Masahiko Saito, Yutaka Ie, Itaru Osaka
- 2Pe071 Synthesis of Spin Localized Nitroxide Derivatives and Electronic State of Corresponding Polyradical Macromolecules
Kotaro Shibata, Yutaro Harada, Youhei Miura, Naoki Yoshioka
- 2Pf072 Photocurrent Properties of Polyimides Having Triphenylamine Moiety with Enhanced Charge Transfer Interactions and Their Application toward Optical Memory
Ryota Watanabe, Kahori Takatsuki, Ryohei Ishige, Shinji Ando
- 2Pe073 Large Seebeck coefficients of chemically-doped thiophene dendrimers
Yasuko Koshiba, Kota Oki, Shohei Horike, Mana Yamaguchi, Chikayo Takechi, Tatsuya Fukushima, Atsunori Mori, Kenji Ishida
- 2Pf074 Pyroelectricity of the Ferroelectric Polymer Films with In-plane Polarization Controlled by Applying Electric Field during Thermal Annealing
Yohei Sutani, Tatsuya Fukushima, Yasuko Koshiba, Kenji Ishida
- 2Pe075 Wet-spinning of conductive fibers and application to soft actuators
Tomokazu Shimura, Ayana Tomioka, Hirokazu Yano, Hidenori Okuzaki
- 2Pf076 Synthesis and evaluation of polyphenylene-based multiblock copolymers with phosphonium group (I) -Effect of phosphonium group on polymerization -
Yuta Komatsu, Masahiro Fujita, Yuko Takeoka, Masahiro Rikukawa
- 2Pe077 Development of Corona-charged Liquid Crystal Polymer Electret
Tatsuya Fukushima, Takuma Nishimoto, Yasuko Koshiba, Shohei Horike, Yoshiaki Taguchi, Kenji Ishida
- 2Pf078 Flexible Sensors Using Ionic Liquid-Elastomer Gels
Takaya Furuyama, YingJun An, Hidenori Okuzaki
- 2Pe079 Electrochemical Polymerization in Liquid Crystal with Bioactive Substance as a chiral inducer
Kyoka Komaba, Kumai Reiji, Goto Hiromasa
- 2Pf080 Creation of acrylate elastomers containing trans-N-alkylation type dynamic cross-links
Yuta Oba, Mikihiko Hayashi, Akinori Takasu
- 2Pe081 Self-healing Properties of Polypeptide-containing Polyurea Elastomer Having Dynamic Covalent Bonds
Kohei Hattori, Shogo Nobukawa, Hideki Sugimoto, Katsuhiko Inomata
- 2Pf082 Aging variation of ionic crosslinked network between cationic β -sheet and anionic compounds

Ayana Takeda, Masayoshi Tanaka

- 2Pe083 Effect of chemical cross-linker on the structures of hydrogel microspheres
Yuichiro Nishizawa, Ikuma Saito, Kengo Iwase, Takuma Kureha, Mitsuhiko Shibayama, Takayuki Uchihashi, Daisuke Suzuki
- 2Pf084 Mechanical Properties of Latex Films of Rotaxane-crosslinked Microspheres with Different Acrylate Monomer
Yuma Sasaki, Seina Hiroshige, Jun Sawada, Daisuke Aoki, Toshikazu Takata, Daisuke Suzuki
- 2Pe085 Preparation of fluorescence composite microgels and self-assembly of binary microgels
Kenshiro Honda, Takumi Watanabe, Daisuke Suzuki
- 2Pf086 Design of Tough Hydrogels with Entanglement Cross-linking and Their Mechanical Properties
Chika Hajime, Yuino Inamoto, Chisa Norioka, Akifumi Kawamura, Takashi Miyata
- 2Pe087 Creation of hydrophilized polydimethylsiloxane membrane for oil-water separation
Haruna Suzuki, Junji Watanabe
- 2Pf088 Standalone electrochemical systems based on bicontinuous microemulsions gel thin films.
Hinako Hashimoto, Masashi Kunitake, Satoshi Watanabe, Yusuke Yasunaga
- 2Pe089 Thermo-responsive gelation of helical peptides having hydroxylated side chain triggered by the adsorption on alcohol/water interface.
jotaro itou, masayosi tanaka
- 2Pf090 Investigation of polymer gelation of light-controlling silver mirror liquid bath
Tomoki Furukawa, Atsushi Aoki
- 2Pe091 Development of Polymer Brush Surfaces Consisting of Poly(phenylacetylene) Derivatives
Kokoro TAKAYAMA, Takumu YOSHIDA, Tatsuya NISHIMURA, Tsuyoshi TANIGUCHI, Katsuhiko MAEDA
- 2Pf092 Design of fluorocarbon-coated hydrogel using surface-grafting polymerization
Taihei Nishimoto, Takafumi Enomoto, Chia-Hsuan Lin, Jih-Guang Wu, Shyh-Chyang Luo, Aya Mizutani Akimoto, Ryo Yoshida
- 2Pe093 Development of hydrogel using water-soluble divinylated oligoimide as a cross-linker
Ryosuke Takahashi, Tomoya Higashihara
- 2Pf094 Li-ion battery ion gels with controlled polymer network structure: structural and ion-transport properties
Asumi Ishikawa, Kenta Fujii
- 2Pe095 Unidimensional capillary crystallization in ion liquid for the formation of elastic single crystals of a π -conjugated molecule
Keigo Ono, Satoshi Watanabe, Shotaro Hayashi, Masashi Kunitake
- 2Pf096 Microphase-separated structure of triblock copolymer containing π -conjugated block in ionic liquid
Sora Ikeya, Haruna Mizuno, Kei Hashimoto, Hisashi Kokubo, Kazuhide Ueno, Kaoru Dokko, Masayoshi Watanabe
- 2Pe097 Preparation of conductive polymer/PVA composite hydrogel with porous structure
Sayaka Kamei, Yixuan Huang, Tsukuru Masuda, Madoka Takai
- 2Pf098 Adhesive properties of the necklace-type POSS polymers
Tomoe Fukamachi, Shota Hikake, Kenta Kumeda, Kazuya Suwa, Satoshi Watanabe, Masashi Kunitake
- 2Pe099 Tape Peeling Strength on Interfacial Polystyrene Adsorbed Layer
Kohei Koshisuka, Yoshihisa Fujii, Naoya Torikai
- 2Pf100 Analysis of Vulcanization Adhesion Reaction by X-Ray Absorption Near-Edge Structure and Evaluation of Adhesion Strength by Tensile Shear Adhesion Test
Haruki Ichioka, Kazutaka Kamitani, Shiori Masuda, Ryosuke Matsuno, Ken Kojio, Atsushi Takahara
- 2Pe101 Adhesion and Fatigue Behaviors of Epoxy/Layered Nanosheet Composites by in-situ X-

ray Scattering Measurement

Chien-Wei Chu, Yucheng Zhang, Ken Kojio, Atsushi Takahara

- 2Pf102 Modification of chemically stable polymeric materials 115. Adhesion of chemically-stable polymeric materials and
Hitoshi Kanazawa, Aya Inada
- 2Pe103 Effect of Hydrophilic-Hydrophobic Patterned Surface on Sinking and Floating Inspired by a Dixidae Larvae's Abdomen
Naoya Tagata, Daisuke Ishii
- 2Pf104 Water droplets covered with small hydrophobic silica particles
Shinichiro Kano, Syuji Fujii, Yoshinobu Nakamura, shin-ichi Yusa
- 2Pe105 Improvement of superhydrophobic coating durability
Ryo Inoue, Masamichi Morita, Michiru Kagawa, Hiroki Yamaguchi
- 2Pf106 Miniaturization of biomimetic open channels by a mold method
Takahiro Doi, Daisuke Ishii
- 2Pe107 Influence of probe hardness in frictional properties of metal microstructures
Masanaru Nosaka, Yuji Hirai, Masatsugu Shimomura
- 2Pf108 Immobilization of fluorus molecules on plastic surfaces using fluorous affinity
Takane Tsuchii, Kazuki Kaneko, Takashi Nishino, Tatsuo Maruyama
- 2Pe109 On-substrate Microdroplet Optical Resonator as a Precise Temperature Sensor
Keitaro Fujita, Hiroshi Yamagishi, Yohei Yamamoto
- 2Pf110 Single-Molecule Imaging of a Polymer: Proof of unidirectionality by statistical analysis of single-molecular walking motion along a helical polymer chain
Ken-ichi Shinohara, Yuu Makida

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 2Pf112 Nucleation and growth of hydroxyapatite crystal aiming at bone repair agents by mineralization
Aisa Kuwahara, Masahiro Higuchi
- 2Pe113 Structural regulation of peptide templates induced by self-supplied CaCO₃ mineralization and its kinetic analysis
Masayuki Sakano, Masahiro Higuchi
- 2Pf114 Promotion of osteoblast differentiation by polyphosphoester
Kenjiro Kiyono, Akihisa Otaka, Yasuhiko Iwasaki
- 2Pe115 Facile Design of Temperature-responsive Nanofiber Meshes with Different Phase Transition Temperatures
Masato Takanohashi, Eri Niiyama, Sosuke Ouchi, Koichiro Uto, Mitsuhiro Ebara
- 2Pf116 Controlled release of solute from MPC polymer film with temperature-induced phase-transition
YENLING YU, Kazuhiko Ishihara, Kyoko Fukazawa
- 2Pe117 Design of Temperature-Responsive Poly(ethylene glycol) Derivatives with Carbohydrate Binding Sites and Their Effect on Cell Behavior.
Nami Yasumoto, Akifumi Kawamura, Takashi Miyata
- 2Pf118 Continuous second-order structural transition induced by fusion of peptide hydrogels
Atsuya Tezuka, Hiroto Isobe, Keishi Nishio, Kazuki Murai
- 2Pe119 Morphological and Mechanical Characterization of Synthetic ECM to Suppress Cancer
Sona Roy, Sachie Yukawa, William Coates, Jiahao Zhang, Ryo Kanno, Ye Zhang
- 2Pf120 Integrin and Heparan Sulfate Dual-targeting Peptide Assembly Selectively Inhibits Cancer Cell Migration and Invasion via YAP Inactivation
Sona Roy, Guanying Li, Xunwu Hu, Shijin Zhang, Sachie Yukawa, Ye Zhang
- 2Pe121 Establishment of a method for encapsulating proteins into nano-structured coacervates using ABA-type block copolymers
Rento Ota, Biplab KC, Takumi Egashira, Takeshi Mori, Yoshiki Katayama, Akihiro Kishimura

- 2Pf122 Relationship between Liquid Surface Tension and Transport Efficiency in biomimetic surface
Rikima Kuwada, Taro Yaeo, Koji Muto, Daisuke Ishii
- 2Pe123 Preparation of uniform oligomeric library for plastic antibody
Sotaro Akashi, Hinata Takimoto, Yu Hoshino, Yoshiko Miura
- 2Pf124 Fabrication of biomolecular ionic liquids for medical applications
Tatsuyuki Sakamoto, Takayuki Nonoyama, Kazuya Kurumisawa, Keishi Nishio, Jun Araki, Mitsumasa Osada, Kazuki Murai

Fri. May 29

Presentation Time

<a = 10:00~10:40>

<b = 10:40~11:20>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 3Pa001 Mechanism of Toughness Exhibition of Transparent Tough Acrylic Polymers Obtained by Cyclocopolymerization
Takumi Miyashita, Yoshimasa Matsumura, Bungo Ochiai
- 3Pa003 Synthesis of acridone-based π -conjugated polymer having bidentate ligands and their complex formation with metal ions.
Fuki Fuji, Atsushi Kimoto
- 3Pb004 Synthesis of co-polymers with spirobisindane skeleton and their application to low dielectric material
Yu Konno, Hiromasa Sato, Junko Nomura, Ryota Osuga, Tadashi Tsukamoto, Yoshiyuki Oishi, Yuji Shibasaki
- 3Pa005 Fluorescence property of polyfluorenes containing perfluorohexyl groups
Atsuhiko Endo, Naoto Shintaku, Risa Hashimoto, Kenji Sugiyama
- 3Pb006 Synthesis and emission behaviors of amphiphilic block copolymer having COPV as an end group
Shin-ichi Yamamoto, Yoshinori Endo, Shotaro Hayashi, Toshio Koizumi
- 3Pa007 Synthesis of Fully Conjugated Cyclic Polythiophene with Various Side Chains and Molecular Weights and Evaluation of the Optical Properties
Ryohei Sato, Atsuo Utagawa, Takuya Yamamoto
- 3Pb008 Amphiphilic liquid crystalline diblock copolymer thin film having diacetylene units as mesogens
Seiya Yokogi, Sadayuki Asaoka
- 3Pb010 Synthesis of Poly(biphenylacetylene)s Bearing Polar Pendant Groups in the Vicinity of the Main-Chain and Macromolecular Helicity Control
Atsushi Tsuzuki, Tomoyuki Ikai, Eiji Yashima
- 3Pa011 Synthesis of Novel Multiple Helicenes Using a Chrysene Framework and Their Chiroptical Properties
Shoya Yamakawa, Tomoyuki Ikai, Eiji Yashima
- 3Pb012 Preparation of POSS-containing polymethacrylate (PMAPOSS) with well-controlled stereoregularity on the basis of living anionic polymerization method in the presence of chiral ligand.
Satoshi Kometani, Syuji Fujii, Yoshinobu Nakamura, Tomoyasu Hirai
- 3Pa013 Aggregation-induced emission characteristics of tetraphenylethane derivatives
Miwa Kubota, Yuma Tanaka, Takashi Machida, Kenta Kokado, Kazuki Sada
- 3Pb014 Preparation and characterization of novel functionalized polyrotaxanes capped by bulky trithiocarbonate groups
Tae Woong Kang, Atsushi Tamura, Yoshinori Arisaka, Nobuhiko Yui
- 3Pa015 Construction of Movable Cross-Linked Poly(ethylene oxide) Network by Thiol-Ene Reaction
Sotaro Mizuno, Seiya Tsuda, Takahiro Uno, Masataka Kubo, Takahito Itoh

- 3Pa017 Synthesis and Reaction of Water-Soluble Poly ((meth) acrylic thioester)
Kaito Ogawa, Heling Zhang, Shin-ichi Matsuoka, Koji Takagi, Masato Suzuki
- 3Pb018 Polymerization of bismuth carboxyethyl acrylate toward high-refractive-index polymers
Kouhei Kikuta, Yoshimasa Matsumura, Kikuo Furukawa, Miyuki Miyamoto, Yoshio Nishimura, Bungo Ochiai
- 3Pa019 Radiation-Induced Graft Polymerization Mechanism of Styrene Sulfonic Acid Ethyl Ester onto Poly (ether ether ketone) Membrane
Shin Hasegawa, Akihiro Hiroki, Yue Zhao, Kimio Yoshimura, Akihiko Machida, Kenji Ohwada, Tetsu Watanuki, Yasunari Maekawa
- 3Pb020 Anionic polymerization of α, β -Unsaturated Acylsilane
Ryo Sato, Shin-ichi Matsuoka, Koji Takagi, Masato Suzuki
- 3Pa021 Anionic Ring-Opening Polymerization of Seven-Membered Amide-Thioester Prepared from Cysteine and α -Amino Acid.
Raimu Kawai, Shin-ichi Matsuoka, Koji Takagi, Masato Suzuki
- 3Pb022 Synthesis of quinoid derivatives containing group 16 elements via zirconacycle.
Kenta Fukui, Naoki Shida, Shinsuke Inagi, Ikuyoshi Tomita
- 3Pa023 Click Living Polymerization of Alkyne-Azide AB Monomers with Various Spacers
Satoshi Sakai, Tomohiro Kubo, Kotaro Satoh
- 3Pb024 Synthesis of the poly(trimethylene carbonate) derivative with triphenylmethyl group for the high performance
Akari MAEHARA, Hiroaki NOBUOKA, Tan, Yae LEE, Nalinthip CHANTHASET, Hiroharu AJIRO
- 3Pa025 Ring-Opening Polymerization of Six-Membered Cyclic-Cross Dimer Composed of Oxooester and Thioester
Mao Hirata, Shin-ichi Matsuoka, Koji Takagi, Masato Suzuki
- 3Pb026 Click Polymerization of Sugar Monomers with Alkyne and Azide Groups
Sawako Doi, Tomohiro Kubo, Kotaro Sato

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 3Pb028 Temperature-responsive behavior of diblock copolymers with opposite charges in water
Hirokazu Fukumoto, Shin-ichi Yusa
- 3Pa029 Drastic change of the structure in inter-polymer aggregates formed by poly(ethyl oxazoline) induced by pH
Yasuhiro Matsuda, Hiroki Kanamori, Yosei Nakatsuka, Makoto Takahara, Shigeru Tasaka
- 3Pb030 Micelle formation of Amphiphilic Bottle Brush Polymer in Aqueous Solution
Yusuke Kawamura, Isamu Akiba
- 3Pa031 Micelle formation of amphiphiles having cyclic moieties as hydrophilic groups
Saki Kusumoto, Isamu Akiba
- 3Pb032 Synthesis and Solution Properties of Triblock Copolymer Having Poly (γ -benzyl-L-glutamate) at Both Ends of Poly (ethylene oxide)
Miyuki Tominaga, Yusuke Sanada, Kensuke Osada, Yukiteru Katsumoto
- 3Pa033 Small-Angle X-ray Scattering from Aqueous Poly(*N,N*-diethylacrylamide) Solutions
Yo Tanaka, Naohiro Osanai, Akiyuki Ryoki, Daichi Ida
- 3Pb034 Theoretical Study of Pressure-induced Phase Transition of Aqueous Solutions of Thermosensitive Polymers
Hiroyuki Kojima, Shunya Yamamoto, Tsuyoshi Koga
- 3Pa035 Effect of difference in stereoregularity of polylactic acid on molecular conformation
Kayo Ueda, Hiroki Kosugi, Yoshinori Suzuki, Takahiro Watanabe, Moriya Kikuchi, Seigou Kawaguchi
- 3Pb036 Phase Separation of Aqueous Poly(*N*-isopropylacrylamide) Solutions Studied by Small-Angle X-Ray Scattering
Chen Kuang, Jiayun Han, Takahiro Sato

- 3Pa037 Phase Separation in Aqueous Solutions of Temperature-responsive Polymer Poly(2-n-propyl-2-oxazoline)
Jiayun Han, Takahiro Sato, Francoise M. Winnik
- 3Pb038 PH Dependence of Micellar Structure of Amphiphilic Alternating Copolymer in Aqueous Solution
Yuki Egami, Takahiro Sato
- 3Pa039 Complex formation between amphiphilic alternating copolymer and globular protein in aqueous solution
Yuichi Ueno, Takahiro Sato
- 3Pb040 Concentrated aqueous solution of amphiphilic alternating copolymer forming flower necklace micelles
Sahomi Takeuchi, Takahiro Sato
- 3Pa041 Reentrant Behavior of β -Lactoglobulin Depending on the Concentration of Multi-Valent Cations
Yusuke Sanada, Natsumi Ishikawa, Yukiteru Katsumoto
- 3Pb042 Effect of molecular weight on solution properties of thermally responsive PEO-PPO Alternating Multiblock Copolymers
Kenji Sakanaya, Yusuke Sanada, Yukiteru Katsumoto
- 3Pa043 Cononsolvency of coumarin derivative polymers exhibiting lower critical solution temperature in chloroform
Seidai Okada, Eriko Sato
- 3Pb044 Effect of crosslink density on the viscous behavior of semi-dilute aqueous dispersions of microhydrogels
Takuhiko Nakaura, Kanae Mouri, Yuusuke Sanada, Akihiko Takada, Yukiteru Katsumoto
- 3Pa045 Viscoelastic behavior of poly(vinylidene fluoride) solution
Yuki Nohara, Toshiyuki Shikata
- 3Pb046 Hydration Behavior and Molecular Motions of Sulfobetaine-type Surfactant Molecules in Aqueous Micellar Solution
Hiroki Yoshida, Toshiyuki Shikata
- 3Pa047 Study on the aggregation behavior of poly(N-isopropylacrylamide) in water by using fluorescence correlation spectroscopy
Hironori Ishihara, Reika Ikemoto, Yukiteru Katsumoto, Yusuke Sanada
- 3Pb048 A Study of Phase Transition Behavior of Multi-Block Copolymers Depending on Block Numbers Controlled by RAFT Polymerization
Atsushi Ikeda, Yusuke Sanada, Yukiteru Katsumoto
- 3Pa049 Electrophoretic Light Scattering Measurements on Brush-Like Polymers Consisting of Sodium Poly(styrene sulfonate)
Yo Nakamura, Masataka Shibayama, Taishi Matsui
- 3Pb050 Solution properties of phosphorylated ethylene vinyl alcohol copolymer in the presence of metal ions
Yukihiro Kishimoto, Takumi Okihara, Takeru Kameyama
- 3Pa051 Phosphorylation of polyvinyl alcohol and effect of metal ions on dissociation behavior in the solution
Masaaki Kashiwa, Takumi Okihara, Yukihiro Kishimoto, Kotaro Himeno
- 3Pb052 Reversible Conformational Changes between Contracted Helix and Stretched Helix
Masayoshi Tabata, Yasuteru Maeatari

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 3Pb054 Preparation and Properties of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Two hydroxy End-capped Poly(dimethylsiloxane) Composites
Katsumi Yamashita, Taiga Yokouchi, Hideo Sawada
- 3Pa055 Preparation and properties of soluble ladder-like organic-inorganic hybrid polymers
Katsufumi Soda, Yoshoro Kaneko

- 3Pb056 Preparation of siloxane polymer adhesives containing catechol components
Shogo Oshiro,Yoshiro Kaneko
- 3Pa057 Preparation of a double-chain polysiloxane by template polymerization
Misaki Nobayashi,Yoshiro Kaneko
- 3Pb058 Preparation of siloxane polymers containing binaphthyl groups and their hybridization with dye
Haru Ueda,Taishi Nakahara,Hisako Sato,Yoshiro Kaneko
- 3Pb060 Preparation and properties of cage and random oligosilsesquioxanes containing quaternary ammonium salts in their side chains
Ren Hasegawa,Yoshiro Kaneko
- 3Pa061 Development of the composite materials consist of the necklace-type POSS-DMS polymers and various fillers
Shota Hikake,Tomoe Hukamati,Kenta Kumeda,Kazuya Suwa,Takashi Horiuti,Satoshi Watanabe,Masashi Kunitake
- 3Pb062 Synthesis and functionalization of tertiary sulfonium salt-containing silsesquioxane nanoparticles
Yuta MAEDA,Yusuke SASAKI,Hideharu MORI
- 3Pa063 Preparation of Semiconducting Polysilsesquioxane by Hybridization with Metal Complex
Seiji Watase,Eri Mizuno,Masashi Nakamura,Koji Mitamura,Araki Masuyama
- 3Pb064 Development of siloxane network polymer with trifluoropropyl-substituted incompletely condensed cage silsesquioxanes
Lina Li,Hiroaki Imoto,Kensuke Naka
- 3Pa065 Synthesis and properties of poly(3,4-ethylenedioxythiophene) (PEDOT) having polyhedral oligomeric silsesquioxane (POSS)
Ichiro Imae,Tsuyoshi Wakita,Keiichi Imato,Yousuke Ooyama
- 3Pb066 Fabrication of Nacre Mimetic Polymer/Clay/Clay Nanocomposites
Atsushi Emoto,Shintaro Nakagawa,Naoko Yoshie
- 3Pa067 Polymer gels composited with liquid crystalline nanosheets that spontaneously form very large oriented domain
Riki Kato,Takumi Inadomi,Nobuyoshi Miyamoto
- 3Pb068 Clay-Nanocomposite Using Host-Guest Interaction of Pillar[5]arenes
Takahiro KAKUTA,Yudai BABA,Tada-aki YAMAGISHI,Tomoki OGOSHI
- 3Pa069 Surface modification of fully exfoliated inorganic nanosheet by biphasic system reaction
Shinya Anraku,Nobuyoshi Miyamoto
- 3Pb070 Synthesis of silylated nanosheets using degradable gel
Kazuki Tanaka,Shinya Anraku,Nobuyoshi Miyamoto
- 3Pa071 "Phononic" Nanostructure Prepared Using Polymer-Grafted Nanoparticles
Shohei Yamazaki,Masatoshi Tokita
- 3Pb072 Improved mechanical strength of monodispersed mesoporous silica/poly (N-isopropylacrylamide) composite gels
Hiroki Ishii,Nobuyoshi Miyamoto
- 3Pa073 Synthesis of the liquid crystal/MOF composite material and the physical properties
Shizuka Anan,Hirotugu Kikuchi
- 3Pb074 Hydrogels with high strength and high modulus using zirconia sol
Yuichi Tominaga,Sadahiro Yagishita,Taku Nishikawa,Masakazu Nishida,Yuji Hotta
- 3Pa075 Mechano-chromic hydrogel for detection of mechanical strain by fluorescence imaging
Masumi Taki,Tadahiro Yamashita,Kazuki Yatabe,Viola Vogel
- 3Pb076 Development of a composite material of slide-ring polymer and plasma-surface modified inorganic material
Taku Goto,Kaito Nagayama,Tsuyohito Ito,Kazuto Hatakeyama,Yoshiki Shimizu,Koichi Mayumi,Rina Maeda,Kohzo Ito,Yukiya Hakuta,Kazuo Terashima
- 3Pa077 Antenna-type sensor devices towards agri-sensing

Akira Watanabe, Ashiqur Rahman

3Pb078 Novel Robust Self-Healable Polymer Glass Usable under High-Humidity
Yuta Fujisawa, Yiling Nan, Yu Yanagisawa, Keiichi Yano, Yoshimitsu Ito, Takuzo Aida

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 3Pb080 Design and function of immunoliposomes with transmembrane domain-fused single chain antibody towards cancer immunotherapy
Keigo Nakamura, Risako Miura, Mitsuru Ando, Shinichi Sawada, Yoshihiro Sasaki, Kazunari Akiyoshi
- 3Pa081 Synthesis of star-shaped block copolymer for drug delivery
Kotaro Ushidome, Yasuhiro Nakagawa, Horacio Cabral
- 3Pb082 Design of size-controlled nanocarriers based on graft copolymers and their size effect on cancer targeting
Jongmin Yum, Mitsuru Naito, Hyun Jin Kim, Kanjiro Miyata
- 3Pa083 Pyridylboronate-modified Polymeric Ligand for Targeting Cancer Cell Surface Sialic Acid
Ken Miyajima, Mitsuru Naito, Akira Matsumoto, Yuji Miyahara, Kanjiro Miyata
- 3Pb084 Development of polymeric vesicles to build enzyme reaction field in cerebrospinal fluid
Takuya Nishizono, Noriko Nakamura, Hidekazu Houchido, Kazuko Tou, Horacio Cabral, Yasutaka Anraku
- 3Pa085 Development of nanocarriers to release macromolecular drugs in response to the brain environment
Hidekazu Hochido, Takuya Nishizono, Noriko Nakamura, Horacio Cabral, Yasutaka Anraku
- 3Pb086 Fabrication of a hydrogel with reversible crosslinking via phenylboronate esters for sustained payload release
Rimpei Kamegawa, Adrien Hogrel, Mitsuru Naito, Beob Soo Kim, Hyun Jin Kim, Takuya Katashima, Takamasa Sakai, Akira Matsumoto, Kanjiro Miyata
- 3Pa087 Development of polymeric micelles with different sizes for safe and effective chemotherapy during pregnancy
Takuya Miyazaki, Kensuke Suzuki, Takeshi Nagamatsu, Kazunori Kataoka, Horacio Cabral
- 3Pb088 Preparation of Near-Infrared Photothermal Nanoparticles for Manipulation of Thermo-Sensitive Ion Channels
Weihsu Chen, Ryo Murata, Masao Kamimura
- 3Pa089 Creation of polysaccharide carrier containing one molecule of antisense nucleic acid
Kazuki Sumiya, Hiroto Izumi, Yasuo Morimoto, Shinichi Mochizuki, Kazuo Sakurai
- 3Pb090 Performance evaluation of PEO-modified DDS nanoparticles aiming at control of structural stability
Miyo Soejima, Rena Tanaka, Shota Fujii, Kazuo Sakurai
- 3Pa091 Development of tetraPEG-polymeric micelle hybrid gels -an evaluation of tissue-adhesive properties by using porcine skin-
Masato Ogawa, Yoshihiko Murakami
- 3Pb092 Development of hyaluronic acid gels for the controlled release of multiple drugs
Shohei Komuro, Yoshihiko Murakami
- 3Pa093 Development of a hyaluronic acid -polymeric micelles hybrid gel for the application of tissue-adhesive materials
Risa Serizawa, Yoshihiko Murakami
- 3Pb094 Development of a polysaccharide-polymeric micelles hybrid sheets formed via sol-gel transition
Souta Kurokawa, Yoshihiko Murakami
- 3Pa095 Development of tissue-adhesive polysaccharide sheets
Aya Isoi, Takumi Sato, Yoshihiko Murakami
- 3Pb096 The wound healing effects of chitosan-polymeric micelles hybrid gel sheets -an evaluation of the healing process using circular resection wounds in rats-

Taiki Fujii,Tomoaki Murakami,Yoshihiko Murakami

- 3Pa097 Development of Singlet Oxygen Detectable Polymeric Micelles
Yasuhiro Nakagawa,Yuta Ushimaru,Junoeu Norimatsu,Kazuori Igarashi,Madoka Takai,Yasutaka Anraku,Horacio Cabral
- 3Pb098 The potential as a drug carrier of Brush Polymer Particles
Shin Takano,Shota Fujii,Kazuo Sakurai
- 3Pa099 The complexation efficiency of cyclodextrins hyperbranched polymer encapsulating alpha-mangostin
Anh Doan,Van Doan,Shota Fujii,Kazuo Sakurai

E. POLYMERS AND ENVIRONMENT

- 3Pa101 Synthesis of Multiblock Copolymers Containing Natural and Unnatural Amino Acids by Coupling Reactions of Oligopeptides
Chie Koganemaru,Yoshifumi Amamoto,Atsushi Takahara
- 3Pb102 Effect of the difference in substituent distribution of cellulose acetate on the miscibility with poly(N-vinyl pyrrolidone-co-vinyl acetate)
Masato Umeno,Kazuki Sugimura,Hiroshi Kamitakahara
- 3Pa103 Modification of Sucrose soyate by Thiol-ene reaction and polyurethane coating
Eri Matsukawa,Kimihiko Matsukawa,Kaoru Adachi,Dean Webster
- 3Pb104 Bio-based adhesive from lignin derivative
Kazunori Ushimaru,Tomotake Morita,Tokuma Fukuoka
- 3Pa105 Preparation of the cellulose nano crystal / chitosan composite films
Kazuma Tsujioka,Yuji Hirai,Masatsugu Shimomura
- 3Pb106 Synthesis of polyurethane from diol-type microbial oligoester
Tetsuo Sakurai,Shoji Mizuno,Ayaka Hiroe,Seiichi Taguchi,Takeharu Tsuge
- 3Pa107 Composites of alginate and hydroxyapatite applicable to tough materials
Kohei Okuda,Tadashi Mizutani
- 3Pb108 Depolymerization behavior of microbial polyester P(3HB-co-4HB)
Taku Omura,Tatsuya Goto,Akira Maehara,Satoshi Kimura,Hideki Abe,Tadahisa Iwata
- 3Pa109 Making High-strength and analyzing biodegradability of P(3HB-co-3HV) film
Katsuya Komiyama,Taku Omura,Taizo Kabe,Kenichi Kasuya,Tadahisa Iwata
- 3Pb110 Selective Transesterification Reaction Using Ionic Liquid and Characterization of Kraft Lignin Derivatives
Shiori Suzuki,Tadahisa Iwata
- 3Pa111 The Effects of Side Chains and Comonomers of Anthraquinone-Based Polyesters on Their Properties
Tatsuya Goto,Tadahisa Iwata,Hideki Abe
- 3Pb112 Preparation and flocculation ability of amphoteric cellulose derivative
Hiroyuki Kono
- 3Pa113 Estimation of reactivities of degradation products from bamboo lignin and fabrication of their composite materials
Phi Long Nguyen,Manami Noda,Miki Matsuoka,Kanako Kai,Taro Kinumoto,Masaya Moriyama
- 3Pa115 Evaluation of laminated structure with a biomass fiber and production of engine hood
Takayuki Tsukegi,Shougo Fujita,Osamu Yoshimura,Kyouko Sugita,Yuji Kageyama
- 3Pb116 Effect of shear history on mechanical properties of remolding high-density polyethylene thin film
Haruka Kaneyasu,Patchiya Phanthong,Hiroshi Sekiguchi,Ryoko Nakano,Shigeru Yao
- 3Pa117 Esterification of Wood Powder under Solvent-Free Conditions
Suzuka Takeuchi,Akinori Takasu
- 3Pb118 Sustainable development of high water-absorbing towels by cellulose nanocrystal (CNC)

sized cotton yarns
Toshihiko Arita, Nobuhiro Yahata, Ryuji Hiratsuka

- 3Pa119 Cellulose nanocrystal (CNC) filled PET bottles
Toshihiko Arita
- 3Pb120 Evaluation of biodegradability of plastics in the marine environment
Hironori Taguchi, Nao Osaka, Takako Kikuchi
- 3Pa121 Molding time and temperature dependence of mechanical properties of crushed pre-consumer from injection molded polypropylene
Yuki Kawakami, Saki Minemura, Takao Kameda, Patchiya Phanthong, Hiroshi Sekiguchi, Ryoko Nakano, Shigeru Yao
- 3Pb122 Fragmentation Behavior of Isotactic Polypropylene Films after Exposure to UV Light and Mechanical Force.
Tomoko Kajiwara, Kazutaka Kamitani, Yoshifumi Amamoto, Ken Kojio, Atsushi Takahara
- 3Pa123 Synthesis of cyclodextrin-based hyperbranched polymer using surfactant
Jun Katsuki, Shota Fujii, Kazuo Sakurai

Presentation Time

<c = 13:00~13:40>

<d = 13:40~14:20>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 3Pc001 Synthesis of Linear Oligoamide Composed of *N*-Alkylated 4-Amino-5-iodo-2-methylbenzoic Acid and Its Conversion to Helicene Analogue by Intramolecular Bond Formation
Hirotaaka Shimoda, Tomoyuki Ohishi, Akihiro Yokoyama
- 3Pd002 Synthetic Study of Helicene Analogue by Intramolecular Biarylation of Naphthalene Units
Runo Usami, Tomoyuki Ohishi, Akihiro Yokoyama
- 3Pc003 Controlled Synthesis of Poly(3-alkylthiophene) and Evaluation of Its Organic Thin-Film Transistor Characteristics
Yamato Shoji, Tomoya Higashihara, Cheng-Liang Liu, Ming-Chou Chen
- 3Pd004 Synthesis of aromatic ladder polymer in Metal-Organic Frameworks
Takumi Miura, Takashi Kitao, Takashi Uemura
- 3Pc005 Surface property of poly(methyl methacrylate)-*b*-poly[2-(perfluorobutyl)ethyl methacrylate] film
Mizuki Tamba, Kumi Nakamura, Kenji Sugiyama
- 3Pd006 Synthesis and properties of triptycene-appended vinyl polymers with two-dimensional self-assembling ability
Ayami Itagaki, Fumitaka Ishiwari, Takanori Fukushima
- 3Pc007 Development of efficient synthetic methods for well-defined polyfluorene-*b*-polyoxazoline
Yusuke Ookawa, Atsuki WATANABE, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 3Pd008 Synthesis and optical properties of cyclic compounds containing curved *p*-terphenylene and naphthalenediimide
Ryota SHIMADA, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 3Pc009 Synthesis and optical properties of silica nanoparticle including polyfluorene-*b*-polyethyleneimine having polycyclic aromatic hydrocarbon at one end
Atsuki WATANABE, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 3Pd010 Precise Synthesis of Temperature-Responsive Block Polymers by Living Cationic Polymerization of Octadecyl Vinyl Ether and Their Characteristic Gelation Behavior
Mikiya Umemoto, Arihiro Kanazawa, Sadahito Aoshima
- 3Pc011 Copolymerization of methacrylate bearing a silsesquioxane pendant with fluorine-containing diene-type monomer
Takamochi Kondo, Hiroki Fukumoto, Tomohiro Agou, Toshio Kubota
- 3Pd012 Amphiphilic liquid crystalline diblock copolymer thin film having one-dimensional

mesochannels with densely-arranged bipyridine ligands

Kotaro Mega, Sadayuki Asaoka

- 3Pc013 Domain-selective introduction of metal nanoparticles in amphiphilic liquid-crystalline diblock copolymer thin films
Yuta Hashimoto, Sadayuki Asaoka

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 3Pc015 Effect of lubricant composition on polymer tribology
Atsuya Higuchi, Tomoya Omata, Masaki Kakiage, Hiroki Uehara, Takeshi Yamanobe, Yasushi Onumata, Kazuo Tagawa
- 3Pd016 Hydration State of Zwitterionic Polymer/Albumin Composite Thin Films
Riku Furusawa, Yuji Higaki
- 3Pc017 Swollen State of Poly(phosphorylcholine) Brushes Depending on Cononsolvency
Daiki IHARA, Tatsunori SAKAMAKI, Kousuke IGATA, L. Norifumi YAMADA, Yasuhiro MATSUDA, Yuji HIGAKI, Ken KOJIO, Atsushi TAKAHARA
- 3Pd018 Property of dynamic zwitterionic polymer brush
Katsuki Otaki, Norifumi Yamada, Kohzo Ito, Hideaki Yokoyama
- 3Pc019 Effect of PMEA graft density on Interfacial Structure Formation and Protein Adsorption Behavior
Tomoya Ueda, Daiki Murakami, Masaru Tanaka
- 3Pd020 Molecular Simulation of Friction of Ring Polymer Brush
Tsutomu Furuya, Shinjiro Hayashi, Tsuyoshi Koga
- 3Pc021 Surface Electrical Properties Derived from the Helix Structure of Main Chains of Surface-grafted Polyaspartate Thin Film
Ryota Murakami, Xiaobin Liang, Ken Nakajima, Hidemine Furuya
- 3Pd022 Anchoring control of liquid crystal interface by silane coupling agent
Yuna Arimura, Yasushi Okumura, Hirotsugu Kikuchi
- 3Pc023 Evaluation of incident molecular temperature during vapor deposition of organic thin films.
Takeshi Azuma, Atsushi Kubono, Ryosuke Matsubara
- 3Pd024 Surface observation of PVT-PDA crystal by using Friction Force Microscopy
Sadaharu Jo
- 3Pc025 Investigation of correlation between local elastic modulus and preferred lamellar orientation in crystalline polymer thin films
Kenshiro Kaji, Shinichi Sakurai, Sono Sasaki
- 3Pd026 Influence of 3-hydroxyhexanoate contents against preferred lamellar orientation in ultrathin film of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate)
Toshiteru Nagata, Hiroyasu Masunaga, Takaaki Hikima, Taiki Hoshino, Shinichi Sakurai, Sono Sasaki
- 3Pc027 Aggregation states of polyhydroxystyrene at glass interface
Kosuke Fujino, Satoshi Yukioka, Masayasu Totani, Daisuke Kawaguchi, Keiji Tanaka
- 3Pd028 Quantitative evaluation of analytical depth in block copolymer thin films by GISAXS measurement utilizing tender X-ray
Youhei Kawai, Katsuhiko Yamamoto, Hideaki Takagi
- 3Pc029 Structural analysis of block copolymer thin films by energy dependent grazing-incidence small-angle X-ray scattering
Yoshiaki Fuwa, Katsuhiko Yamamoto
- 3Pd030 Complementarily evaluation of surface composition in amphiphilic polymer thin films by using X-ray photoelectron spectroscopy and Neutron reflectometry.
Tatsuya Imai, Eri Ito, Katsuhiko Yamamoto
- 3Pc031 Stability of Polymer Thin Film by Solvent Annealing and Depth Distribution of Penetrating Solvent

Yuka Kakimi, Yoshihisa Fujii, Norifumi Yamada, Naoya Torikai

- 3Pd032 Investigation of Mechanical Properties of Polypropylene / Cellulose Nanofiber Composites by Nano-palpatation Atomic Force Microscope
Qingyan Shen, Makiko Ito, Xiaobin Liang, Ken Nakajima
- 3Pc033 Study on PP / EPDM Thermoplastic Vulcanizates Using Nano-Palpatation Atomic Force Microscope
Kaede Mogi, Makiko Ito, Xiaobin Liang, Ken Nakajima
- 3Pd034 Effect of tacticity on interfacial region of poly(methyl methacrylate)/silica nanoparticle
Kazuki Matsuura, Keiichi Kuboyama, Toshiaki Ougizawa
- 3Pc035 Glass Transition Temperatures for Syndiotactic Poly-(methyl methacrylate) at Solid Interface
Hiroki Koga, Sim Jaehyun, Daisuke Kawaguchi, Keiji Tanaka
- 3Pd036 Molecular Motion of Polystyrene Thin Film with Quartz Crystal Microbalance
Daiki Komiyama, Yoshihisa Fujii, Naoya Torikai
- 3Pc037 AFM measurement of mechanical properties of pseudo-polyrotaxane nanosheet
Kimika Endo, Rina Maeda, Shuntaro Uenuma, Hideaki Yokoyama, Kohzo Ito
- 3Pd038 Interdiffusion of miscible polymer blend investigated by atomic force microscopy
Ren Tajiri, Makiko Ito, Xiaobin Liang, Ken Nakajima
- 3Pc039 Surface segregation behavior of bottlebrush/linear polymer blends with negative χ parameter
Kazuma Miyagi, Hao Mei, Rafael Verduzco
- 3Pd040 Study on mechanical behavior of rubber under elongation using nano palpation atomic force microscope
Hiroki Sagawa, Makiko Ito, Xiaobin Liang, Ken Nakajima
- 3Pc041 Frequency dependence of rubber viscoelastic properties by atomic force microscope 2
Kei Sekine, Makiko Ito, Xiaobin Liang, Ken Nakajima
- 3Pd042 Study on heat resistance properties of carbon-nanotube-filled fluororubber by nanorheological atomic force microscope
Toru Kobayashi, Makiko Ito, Xiaobin Liang, Ken Nakajima
- 3Pc043 Correlation structure and adhesive strength of the block copolymer thin film
Yuna Tochii, Katuhiro Yamamoto
- 3Pd044 optimization of epoxy adhesive mechanical properties through polymer informatics
Harutoshi Yamada, Teruki Tsurimoto, Pruksawan Sirawit, Masanobu Naito, Tsuyoshi Koga
- 3Pc045 Oxidation resistance property of copper surfaces modified with PMMA stereocomplex using layer-by-layer assembly
Mitsutaka Goto, Yusuke Hara, Kaoru Adachi
- 3Pd046 Lamination of plastic hard coating with crosslinkers
Hikaru Kawai, Ryo Akao, Hideyo Ando, Yasuhiro Matsuda, Shigeru Tasaka

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 3Pd048 Fabrication and evaluation of the proton conduction performance of multi-layer coated silica nanoparticles for the novel polymer electrolyte membrane
Keisuke Tabata, Tomohiro Nohara, Kazuki Koseki, Ryota Sato, Yukina Suzuki, Ryuichiro Shimada, Toshihiko Arita, Akito Masuhara
- 3Pc049 Fabrication of organic-inorganic composite films by radical-anionic UV curing
Yoshiki Shirai, Sayako Sato, Masahiro Furutani, Koji Arimitsu
- 3Pd050 Polymer grafting of acid-catalyzed depolymerizable polymers to inorganic fillers triggered by UV irradiation
Daiki Hasegawa, Masahiro Furutani, Koji Arimitsu
- 3Pc051 Enhancement of Thermal Conductivity of Epoxy/Nanodiamond Composites through Ice-templating Method
Tomohiro Yoshitomi, Takuya Matsumoto, Takashi Nishino

- 3Pd052 X-ray Microscopic Study on the Enhanced Thermo-conductive Connectivity of Novel Polymer Composites
Mitsunori Okada, Yusuke Nagatani, Daisuke Watanabe, Kazuo Matsuyama, Tsutomu Takeichi
- 3Pc053 Preparation of poly(ethylene carbonate)/silk fibroin composite membranes for tissue-engineering material
Ayumi Yuki, Yasumoto Nakazawa, Yoichi Tominaga
- 3Pd054 Fiber-reinforced Viscoelastomers Show Extraordinary Crack Resistance that Exceeds Metals
Wei Cui, Daniel R. King, Yiwan Huang, Liang Chen, Tao Lin Sun, Yunzhou Guo, Yoshiyuki Saruwatari, Chung-Yuen Hui, Takayuki Kurokawa, Jian Ping Gong
- 3Pc055 Polymer Electrolyte Membrane Filled with Functionalized Cellulose Nanocrystals
Tomohiro Nohara, Keisuke Tabata, Kazuki Koseki, Ryota Sato, Ryuichiro Shimada, Yukina Suzuki, Toshihiko Arita, Akito Masuhara
- 3Pd056 Fabrication of paper-based conducting polymer actuator compounding CNT
Eisuke HONDA, Keito INADA, Tetsu MITSUMATA, Norio TSUBOKAWA, Takeshi YAMAUCHI
- 3Pc057 Preparation of hydrophobic cellulose nanocrystals and application to functional filler.
Hajime MIURA, Kento ICHIKAWA, Tetsu MITSUMATA, Norio TSUBOKAWA, Takeshi YAMAUCHI
- 3Pd058 Fabrication of adhesive nanofibers to skin and their inclusion ability of odor molecules
Kenta Asaba, Ryo Tsuboi, Kroekkiat Sitthirat, Sayaka Ito, Masashi Higuchi, Yosuke Okamura
- 3Pc059 Fabrication and evaluation of multi-layered ultralight material
Takahiro Segi, Tomonaga Ueno
- 3Pd060 The sol-gel reaction behavior of zinc acetate in the presence of polyethyleneimine
Yuta Akimoto, Takeru Iwamura, Yoshikuni Hashimoto
- 3Pc061 Anti-fogging properties of organic-inorganic hybrid materials containing polyglycerin structure
Yukiko Miyaji, Shiori Kawabata, Hikaru Ogawa, kimihiro Matsukawa
- 3Pd062 Preparation and Application to the Surface Modification of Fluorinated Diol/Poly(vinyl alcohol)/Silica/Zirconium Composites Possessing an Oleophobic/Superhydrophilic Characteristic
Jitraporn Saengkaew, Katsumi Yamashita, Yoshiyama Kaneumi, Tetsushi Kijima, Keisuke Kokin, Hideo Sawada
- 3Pc063 X-Rays Visualization and Quantification Using Fibrous Color Dosimeter Based on Leuco Dye
Phu Phong Vo, Hoan Ngoc Doan, Kenji Kinashi, Wataru Sakai, Naoto Tsutsumi
- 3Pd064 Estimation for cosmic radiation exposure dose by using leuco-based composite resin dosimeter
Tomofumi YOSHIDA, Kenji KINASHI, Wataru SAKAI, Naoto TSUTSUMI
- 3Pc065 Preparation and properties of phytic acid-calcium carbonate composite nanoparticles
Haekyung LEE, Hiroaki IMOTO, Kensuke NAKA
- 3Pd066 Investigation of Diffusion and Re-orientation in Iodine/Nylon 6 Complex [22]; Effects by Mixed Solvent of Water/Alcohol on Iodine Doping into Polymers.
Akio Kawaguchi
- 3Pc067 Structure and Mechanical Properties of various co-continuous network polymers using epoxy monolith.
Ren Tominaga, Yasuhito Suzuki, Yoshihiro Takeda, Masaru Kotera, Akikazu Matsumoto
- 3Pd068 Fabrication of boron carbide fibers using poly(vinyl alcohol) nonwoven fabric
Yusuke Yoda, Hiroto Suda, Masaki Kakiage, Hiroki Uehara, Takeshi Yamanobe

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 3Pd070 Synthesis of Glycopolymer Having Two Sugar Units

Tomohiro Fukuda, Wakana Hirai

- 3Pc071 Synthesis of Temperature-Responsive Polymers Carrying a Sialyloligosaccharide by RAFT Polymerization
Shunsuke Ushio, Tomonari Tanaka
- 3Pd072 Interaction between N-acetylglucosamine-modified silk fibroin and the cells that express cytoskeletal proteins on their surfaces
Yohko Gotoh, Toshimasa Yamazaki, Yasuyuki Ishizuka, Hirohiko Ise
- 3Pc073 Exosomes from glycolipids-remodeling cancer cells: characteristics and interactions with cells
Qinyue Liu, Shin-ichi Sawada, Yoshihiro Sasaki, Koichi Furukawa, Kazunari Akiyoshi
- 3Pd074 Particle size of hydrophobized hyaluronic acid in the presence of various ions
Setsuko YAMANE, Hiroto IWASAKI, Shin-ichi SAWADA, Yoshihiro SASAKI, Kazunari AKIYOSHI
- 3Pc075 Bioactivity and Functionalization of Torula yeast-derived β -glucans
Shun-ichi Tamaru, Makoto Anraku, Daisuke Iohara, Yusuke Fukuda, Kenichi Ason, Naoto Kaji
- 3Pd076 Antitumor activity of (1 \rightarrow 3)- β -D-glucans prepared by ring-opening polymerization of 1,3-anhydroglucose derivative
Maya Sato, Kosuke Aizawa, Yuumi Okamura, Saho Yamaguchi, Tomoka Nakamura, Kaname Tsutsumiuchi
- 3Pc077 Preparation of Amylose-PRHB Inclusion Complex by Parallel Enzymatic Polymerization
Yuki Wada, Kazuya Yamamoto, Jun-ichi Kadokawa
- 3Pd078 Investigation of gelation behavior of cyclodextrin-containing chitosan
Raito Hirata, Atsuki Onishi, Tetsuya Furuike, Hiroshi Tamura
- 3Pc079 Preparation of kappa-carrageenan-chitosan oligosaccharide complex
Toshiya Tachi, Tetsuya Huruike, Hiroshi Tamura
- 3Pd080 Wrinkled surfaces induced on chitosan film by drying: Effect of film orientation on the wrinkle morphology
Yuta Toyoshima, Hironori Izawa, Shinsuke Ifuku, Minoru Morimoto, Hiroyuki Saimoto
- 3Pc081 Synthesis of guanidynylated chitosan derivatives having hydrophobic groups
Ryo Umemoto, Hironori Izawa, Shinsuke Ifuku, Minoru Morimoto, Hiroyuki Saimoto
- 3Pd082 Synthesis of Mixed Chitin Esters in Ionic Liquids
Kaho Kohori, Hiroki Hirayama, Kazuya Yamamoto, Jun-ichi Kadokawa
- 3Pc083 Fabrication of Chitin Gel by Reductive Amination to Self-assembled Chitin Nanofibers
Ryuta Watanabe, Kazuya Yamamoto, Jun-ichi Kadokawa
- 3Pd084 Fabrication of Nanochitins by Disentanglement of Bundle Chitin Fibers
Takuya Hashiguchi, Seiichiro Noguchi, Kazuya Yamamoto, Jun-ichi Kadokawa
- 3Pc085 Effect of distance between two charges of zwitter ionic polymers on their immunogenicity
Rena Shimazui, Ryo Miyahara, Takaaki Ryujin, Akihiro Kishimura, Daisuke Asai, Takeshi Mori, Yoshiki Katayama
- 3Pd086 Preparation of near infrared (NIR)-responsive fullerene containing water-soluble complex
Kohei Kitano, Kazuhiko Ishihara, Shin-ichi Yusa
- 3Pc087 Investigation of the side chain structure of polyzwitterions for the responsiveness to tumorous pH
Masahiro Toyoda, Hiroyasu Takemoto, Takahiro Nomoto, Makoto Matsui, Yutaka Miura, Nobuhiro Nishiyama
- 3Pd088 Effect of structural change of aminoalkyl methacrylate copolymer on drug solubility
Kenjiro Higashi, Yuta Okamoto, Keisuke Ueda, Kunikazu Moribe
- 3Pc089 Inflammation suppressive effects of inflammatory responses by Oligo(ethylene glycol)-modified stimuli-labile polyrotaxanes
Nobuhiko Yui, Atsushi Tamura, Moe Ohashi
- 3Pd090 Design of pH-responsive anionic polyrotaxanes and the modulation of cellular

internalization efficiency.

Shunyao Zhang, Atsushi Tamura, Nobuhiko Yui

- 3Pc091 Development of hyaluronic acid-coated biodegradable polymeric micelle for nasal vaccine delivery
Kengo Suzuki, Takuya Nagata, Yuta Yoshizaki, Akinori Kuzuya, Yuichi Ohya
- 3Pd092 Release Behavior and Drug Efficacy of Anticancer Drug Nanoparticles loaded on Polymeric Films
Nozomi Saito, Farsai Taemaitree, Ryuju Suzuki, Yoshitaka Koseki, Hitoshi Kasai
- 3Pc093 Design of transformable and degradable surface-functionalized core-corona type particles
Satoshi YAMADA, Tatsuki KAMIYA, Shuhei ABE, Syuuhei KOMATSU, Akihiko KIKUCHI
- 3Pd094 Polymeric engineering of prodrug nanoparticles for the investigation of intracellular drug dynamics
Farsai Taemaitree, Beatrice Fortuni, Tomoko Inose, Koseki Yoshitaka, Hiroshi Uji-i, Hitoshi Kasai
- 3Pc095 Design of self-assembling antioxidant for suppression of side effects of cancer radiation therapy
Chiaki Yonemoto, Ahram Kim, Feliciano Chitho, Babita Shashni, Yukio Nagasaki
- 3Pd096 Liquefied liquid metal-polymer nano-microconjugations as injectable, photo-activatable and drug carriable materials
Tomoka Hirose, Eijiro Miyako, Kazuaki Matsumura
- 3Pc097 Development of ATP-responsive hydrophobized polysaccharide nanoparticle for boron neutron capture therapy
Riku Kawasaki, Keita Yamana, Kouta Sugikawa, Atsushi Ikeda
- 3Pd098 Fabrication of DDS carriers having Targeting and Environmental Recognition Abilities.
Kazuho Atsumi, Masahiro Higuchi
- 3Pc099 Novel method for preparing porous sheets by using spontaneous emulsification
Shinnosuke Nishimura, Yoshihiko Murakami
- 3Pd100 Preparation of porous biomaterials with ultra-low-density by using spontaneous emulsification -application to pulmonary DDS-
Misaki Okabe, Shinnosuke Nishimura, Yoshihiko Murakami
- 3Pc101 Preparation of emulsions and particles by using aqueous two-phase system for pulmonary DDS
Kaho Moriguchi, Yoshihiko Murakami
- 3Pd102 Development of temperature-responsive microparticles formed via sol-gel transition - application to pulmonary DDS
Takumi Sato, Yoshihiko Murakami

E. POLYMERS AND ENVIRONMENT

- 3Pd104 Development of stable borate esters and their polymer derivatives using boric acid materials
Akira Takahashi, Wenrui Wang, Atsushi Kameyama
- 3Pc105 Regulation of first block length and crystallization behavior for P(3HB-co-4HB)-b-P(3HB) biosynthesized by *R. eutropha*
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- 3Pd106 High yield of P3HB yield from glycerin as a carbon source by a novel repeated culture method of *R. eutropha*
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- 3Pc107 Relationship between yield and carbon source concentration in biosynthesis of P (3HB) by *R. eutropha* using glucose as carbon source
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- 3Pd108 Concentration dependence of metabolic efficiency of nonanoic acid as a carbon source during biosynthesis of poly (3-hydroxyalkanoate) by *P. putida*
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- 3Pd120 Novel Copper Ion Imprinted Alginate Microsphere Adsorbent Synthesis and Reuse Evaluation.
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