

Room P

Gymnasium 1

Tue. Sep 26

Presentation Time

<a = 10:20~11:00>

<b = 11:00~11:40>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 1Pa001 Ring-opening polymerization of 6-membered lactone derived from furfural
HEEJUN KIM, Nobuyoshi NOMURA
- 1Pb002 Ring-opening polymerization of 6- and 7-membered lactones via secondary alkoxide end-groups
Kazuchika Iwata, Nobuyoshi Nomura
- 1Pa003 Polymerization of diazoacetate: Attempts to develop a new Pd-based initiating system that produces high molecular weight polymer in high yield.
Takaya Izumoto, Hiroaki Shimomoto, Tomomichi Itoh, Eiji Ihara
- 1Pb004 Synthesis and cyclopolymerization of compounds having diazoester and diazoamide units
Haruki Ichihara, Hiroaki Shimomoto, Tomomichi Itoh, Eiji Ihara
- 1Pa005 Polymerization of diazoacetates with urea-linkage
Nagisa Yano, Hiroaki Shimomoto, Eiji Ihara, Tomomichi Itoh
- 1Pb006 Investigation of Rh-catalyzed polymerization mechanism of 1,6-heptadiyne monomers
Ryo Nishimoto, Hiromitsu Sogawa, Fumio Sanda
- 1Pa007 End Functionalization of Poly(3-hexylthiophene) through an acyl nickel complex
Shunya Kitahara, Naoya Kanbayashi, Taka-aki Okamura, Kiyotaka Onitsuka
- 1Pb008 Studies on the structure of crosslink and mechanism of decrosslinking of boronic acid-crosslinked EPM
Bando Yusuke, Ryo Tanaka, Yusho Nakayama, Takeshi Shiono
- 1Pa009 Synthesis of polypropylene random copolymer with C=C bonds in main chain
Yuta Yanagi, Ryo Tanaka, Yusyo Nakayama, Takeshi Shiono
- 1Pb010 Solvent effects in ethylene/norbornene copolymerization with ansa-fluorenylamidodimethyltitanium complex
Taichi Usabayashi, Ryo Tanaka, Yuusho Nakayama, Takeshi Shiono
- 1Pa011 Olefin polymerization by nickel catalyst bearing bulky olefinic substituent on nitrogen atoms
Nao Harada, Ryo Tanaka, Yuusho Nakayama, Takeshi Shiono
- 1Pb012 Olefine Polymerization and Copolymerization using Aluminum Complexes
Nanako Kimura, Daisuke Takeuchi
- 1Pa013 Synthesis and addition polymerization of norbornene derivatives synthesized by isomerization of Binor-S
Eri Funahashi, Yusuke Iwata, Shin-ichi Matsuoka
- 1Pb014 Synthesis and post-polymerization modification of cyclopropane-containing polyolefins by metathesis reactions.
Yuiko Niwa, Shin-ichi Matsuoka
- 1Pa015 Effect of Trace Amount of Water on Biomass Composition Butadiene Polymerization with Neodymium Catalyst System
Kei Nishii, Kouki Soutome, Tomoyuki Toda, Yoshinao Nakagawa, Yo Nakamura
- 1Pb016 Polymerization of isoprene and styrene using nickel dichlorido complexes with mono- or bidentate benzimidazole ligands
Masahito Hasumi, Seira Tanigawa, Kakeru Tsukahara, Yasuyuki Ueda, Tomoyuki Toda, Shun Ohta, Kei Nishii
- 1Pa017 Multimetal-Catalyzed One-Stop Chain Transfer Oligomerization of Ethylene/Propylene Directed Toward Synthetic Lubricants

Fuyuki Aida, Kazuiku Tagawa, Tetsuo Honma, Yuki Kitayama, Mizuki Yoshihara, Yuna Sakakibara, Hikaru Takaya

1Pb018 Alternating copolymerization of carbon dioxide and epoxide by inorganic lanthanoid catalysts

Masayoshi Honda, Hiroshi Sugimoto

1Pa019 Synthesis of an Ultra-Low Dielectric Aromatic Polyether by Oxidative Polymerization of 2-(2-Adamantyl)phenol Using an Enzyme Model Catalyst

Akiyuki Nakano, Yumi Nakaoka, Rina Fukui, Tsubasa Aoki, Hideyuki Higashimura

1Pa021 Polymerization of Dicyclopentadiene Catalyzed by Homogeneous Tungsten Catalysts

Toshiyuki Oshiki

1Pa023 Droplet formation of self-assembled diarylethene dimers in hydrophobic solvents

Daichi Akiba, Hiroki Hanayama, Shiki Yagai

1Pb024 Creation of anthracene nanotubes containing chiral side chains inside

Takahiro Ueno, Takumi Aizawa, Hiroki Hanayama, Shiki Yagai

1Pa025 Self-assembly of a Diphenylanthracene Dyad Leading to Toroidal and Helicoidal Supramolecular Aggregates

Sota Mihara, Hiroki Hanayama, Shiki Yagai

1Pb026 Self-assembly of Scissors-shaped Anthracene Dyads Bearing Ethynylene Moieties

Arisa Ino, Hiroki Hanayama, Shiki Yagai

1Pa027 Synthesis supramolecular assemble with calix[5]arene-appended porphyrin

Masato Yomori, Takehiro HIRAO, Takeharu HAINO

1Pb028 Study on head-to-tail supramolecular polymerization of bisporphyrin cleft monomers possessing chiral binaphthyl linker

Soichiro Koya, Naoyuki Hisano, Takeharu Haino

1Pa029 Chiroptical properties of supramolecular micelles formed through the self-assembly of amphiphilic platinum(II) complex

Masaya YOSHIDA, Takehiro HIRAO, Takeharu HAINO

1Pb030 Effects of guest molecules on the inclusion complex formation of helical st-PMMA

Kosei Nakata, Kohei Segawa, Takehiro Kawauchi

1Pa031 Preparation and Characterization of Supramolecular Polymer Based on Benzene-1,3,5-tricarboxamide Having Two-armed Aliphatic Alkyl groups as side chains

Yuzo Ishigaki, Motoshi Yamanaka, Takeshi Hagio, Ryoichi Ichino

1Pb032 Can supramolecular polymerization of hydrogen-bonded discs be enhanced by hydrogen-bonding between amide groups?

Shunsuke Kakinuma, Shiki Yagai, Hiroki Hanayama

1Pa033 Supramolecular Polymerization of Supramolecular Discs Possessing Randomly Introduced Alkyl Side Chains with Different Lengths

Wenwen Luo, Hiroki Hanayama, Shiki Yagai

1Pb034 Effect of Zinc Coordination on Self-assembly Behavior of Scissors-shaped Chlorophyll Dyads

Sho Takamiya, Shiki Yagai, Hiroki Hanayama, Hitoshi Tamiaki

1Pa035 Thermally controllable toroidal and helicoidal pathways in supramolecular polymerization

Shuhei Yamashita, Takumi Aizawa, Hiroki Hanayama, Shiki Yagai

1Pb036 Self-assemble behavior of N-phthalimido-protected glucosamine equipped with fluoroalkyl group

Masaki Murakami, Norihiko Sasaki, Toshiki Nokami

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

1Pb038 Structural analysis of chain-like silica nanoparticles in aqueous and polymeric media

Tatsuki Oishi, Ayae Sugawara-Narutaki, Rintaro Takahashi

1Pa039 Polymerization-Induced Microphase Separation of Block Copolymers in an Ionic Liquid

Ibuki Shibata, Ayae Sugawara-Narutaki, Rintaro Takahashi

1Pb040 Accelerated water desorption of hydrophilic liquid oligomers by addition of hydrophobic liquid oligomers

Daisuke Ikegawa, Arisa Fukatsu, Kenji Okada, Masahide Takahashi

- 1Pb042 Analysis of structure formation process by polymerization-induced phase separation of methyl methacrylate
Shodai Onozato, Yasuhito Suzuki, Akikazu Matsumoto
- 1Pa043 Effect of low-density polyethylene addition on rheological properties and crystallization behavior for polypropylene
Khunanya Janchai, Masayuki Yamaguchi
- 1Pb044 Fabrication and characterization of silicone rubber/silane-modified nanodiamond nanocomposites
Noa Ukai, Seira Morimune-Moriya
- 1Pa045 Phase-separated structures of polymer matrices containing cyclic polymers using diffusion interface particles
Takashi Honda
- 1Pb046 Study on Liner Materials for High-Pressure Hydrogen Tanks Using ETFE blends
Naoya Osada, Katsuhisa Tokumitsu, Hiroki Takeshita, Takumitsu Kida, Shin Nishimura, Mitsuo Shibutani, Hirotada Fujiwara, Eiichi Nishi
- 1Pa047 Development of bio-based semi-IPN prepared from phenolic compound and biodegradable polymer
Kazemitsu Metaka, Shinji Kanehashi

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 1Pa049 Adhesion of different materials using Cu-free click chemistry
Yusuke Kanki, Sayuki Kanemitsu, Shota Yamamoto, Koki Miyahara, Kenta Morita, Tatsuo Maruyama
- 1Pb050 Quantification and control of the clickable azide group density presented on a surface by polymer coating
Hikaru Amo, Yusuke Kanki, Keanta Morita, Tatsuo Maruyama
- 1Pa051 Relationship between interfacial molecular orientation and the adhesion strengths between the epoxy resin and the various metals.
Misaki Ikeda, Takayuki Miyamae
- 1Pb052 Antibacterial properties of thermally cross-linked poly(vinyl alcohol)-based fibers
SHUNSUKE SAITO, TSUKIKA MOMOSE, KIHIO TAKEUCHI, AKIHIRO SAITO, MASATO MUTSUGA, AIKA OGATA, YUJI NARITA, YOHEI KOTSUCHIBASHI
- 1Pa053 Preparation of a reusable surface displaying amino groups using a degradable copolymer
Fuga Hoshino, Sarina Yoshida, Kenta Morita, Tatsuo Maruyama
- 1Pb054 Controlling hydrophilicity of polymer brush surfaces using protection and deprotection of side chain functional groups
Ayuka Matsunami, Hina Morito, Yasuhito Suzuki, Akikazu Matsumoto
- 1Pa055 Hydrophilization of polymer surface using surface segregation of octasilicate derivative
Ichiyo Tokuami, Rina Suzuki, Mayu Nagao, Arifumi Okada, Hiroaki Imoto, Kensuke Naka
- 1Pb056 Surface Modification of Carbon-Based Sheets with Polyelectrolytes and Evaluation of Adhesions between the Modified Sheets
Yifan Li, Takuya Sagawa, Mineo Hashizume
- 1Pa057 Fabrication of self-oscillating polymer brushes with conducting polymer and precise control of the behavior
Tsai Ning Hu, Takafumi Enomoto, Shyh Chyang Luo, Aya Mizutani Akimoto, Ryo Yoshida
- 1Pb058 Surface modification of silicon wafer with multibranched polymers and their surface properties
Chiho Utaki, Takeru Iwamura, Kaoru Adachi
- 1Pa059 Self-healing properties of rubber via crystallization
Rikuto Osaka, Noboru Osaka
- 1Pb060 Control of Surface Functionality in Coating Film Combining Host-Guest Supramolecular Cross-links and Photoreaction
Shintaro Kawano, Takumi Ida, Kohei Nakano, Masahiro Muraoka, Motohiro Shizuma
- 1Pa061 Synthesis and adhesion properties of polymers having thermally stable photoswitches and photocontrolling glass transition temperatures
Taichi Hidaka, Keiichi Imato, Naoki Kaneda, Ichiro Imae, Yousuke Ooyama

- 1Pb062 Preparation of adhesives composed of acidic compounds and epoxy-functionalized cyclosiloxane
Shiemi Fukui, Takashi Aketa, Toshiyuki Ozai, Hideo Nakagawa, Yoshiro Kaneko
- 1Pa063 Preparation and Surface/Mechanical Properties of Self-cleaning Coatings Based on Zwitterionic Polymers and Inorganic/organic Hybrids
Natsumi Fujii, Yumi Iijima, Hidetoshi Iijima, Kenichi Oyaizu, Takeo Suga
- 1Pb064 Synthesis and adhesive properties of aromatic polyamide and its copolymers
Takayoshi KATOH, Kaede TAKAI, Izumi SHIRAKAWA, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 1Pa065 Development of adhesive materials based on the synergy effect of entanglement of the vertically oriented pillars and electrostatic interactions
Kaito Kishimoto, Jin Motoyanagi, Masahiko Minoda
- 1Pb066 Wear Analysis of Poly(vinyl alcohol) Hydrogel by Total Organic Carbon Measurement
Shintaro Yashima, Hiroki Iwama, Masahiko Annaka
- 1Pa067 Perspiration-resistant conformal coating on complex-shape surfaces with polyurea thin film by vapor deposition polymerization
Moeka Osumi, Ryo Tabata, Ryosuke Matsubara, Atsushi Kubono
- 1Pb068 Designing of novel biomimetic adhesive materials based on dopamine-appended polyoxazolines
Yuri Miyatake, Jin Motoyanagi, Masahiko Minoda
- 1Pa069 Insolubilization of Honeycomb Films Prepared by Breath-Figure Method
Minghui Xu, Yumiko Naka, Takeo Sasaki, Khoa V. Le
- 1Pb070 The Formation of Unusual Porous Structure by the Breath-Figure Method
Risako Iwaizono, Yumiko Naka, Takeo Sasaki, Khoa V. Le
- 1Pa071 Solid Lubrication Properties of Metal-Organic Frameworks Having Layered Structure
Sara Kato, Hiroshi Eguchi, Kenji Nagata
- 1Pb072 Theoretical study on polythiophene as an electronic device
Takuto Goto, Yukihito Matsuura
- 1Pa073 Correlation between cage structures and electrochemical properties of anthraquinone-modified POSS
Ryota Tanaka, Showa Kitajima, Kouki Oka, Norimitsu Tohnai, Hiroaki Imoto, Kensuke Naka
- 1Pb074 Fabrication of Alkyl-PEDOT:PSS Aluminum Solid Electrolytic Capacitors and Characterization of Withstand Voltages
Kosei Sakurai, Yuxin Jing, Yoshiki Kawai, Kei Hamada, Kenji Machida, Hidenori Okuzaki
- 1Pa075 Effect of polysilsesquioxane structure on dielectric properties
Masashi Nakamura, Masami Matsuyama, Araki Masuyama, Seiji Watase
- 1Pb076 Synapse-mimicking electronic device using organic electrochemical transistor with polyampholyte hydrogel/sol
Koshi Shoda, Se Young Hwang, Yang Ho Na, Teruo Kanki, Naoki Asakawa
- 1Pa077 Oxidation and magnetic property of poly(phenylacetylene)s bearing 2,6-di-tert-butylphenol residues at para and meta position.
Zenya Naraoka, Masahiro Teraguchi, Toshiki Aoki, Takashi Kaneko
- 1Pb078 Preparation and properties of thermosetting-resins obtained from bismaleimide derivatives and cyclic siloxane compounds
Shusei Sato, Tsubasa Onoue, Nana Mizoi, Tsukasa Ichikawa, Nobukatsu Nemoto, Yuki Hakamata, Shoji Fukuyama, Kazuto Umezu
- 1Pa079 Liquid crystalline syndiotactic poly(substituted methylene)s bearing magnetic ionic liquid moieties at the side chain ends.
Haruka Soku, Masamichi Kiyoura, Naruki Kurokawa, Masatoshi Tokita
- 1Pb080 Relationships between Morphology and Electrical Properties in Conductive Composites Filled with Conductive Particles in HDPE / PVDF Polymer Blends
Takuya Inoue, Mayu Ikeda, Sayaka Matsuno, Hideo Horibe
- 1Pa081 Development and characterization of linear/hyperbranched thermosetting resins utilizing spirobiindane and decafluorobiphenyl
Atsushi Kawabata, Yu Konno, Tadashi Tsukamoto, Toshiyuki Oishi, Yuji Shibasaki
- 1Pb082 Fabrication and characterization of structure-controlled semiconducting polymer films
Masashi Nitani

1Pa083 Synthesis and Low Dielectric Properties of Phosphine Sulfide-containing Aromatic Poly(ether)s with Various Structures
Ryoyu Hifumi, Kotaro Ochiai, Ikuyoshi Tomita

E. POLYMERS AND ENVIRONMENT

1Pb086 Molecular weight of each block for P3HA block copolymer biosynthesized by nonanoic and decanoic acids as carbon sources
Tenma Nishimura, Kei Okumura, Takahiko Nakaoki

1Pa087 Biosynthesis and Cross linking of Poly(3-hydroxyalkanoate) with Unsaturated side chain by *P. putida*
Tomoki Kawamoto, Takahiko Nakaoki

1Pb088 Synthesis and Biodegradability of Unsaturated Polyesters Containing Dianhydrosugar by Thiol-Yne Reaction
Katsuhisa Yano, Akinori Takasu

1Pa089 Synthesis and Characterization of Marine Biodegradable Poly(ethylene succinate) based Copolymers Containing Long-chain Dicarboxylate Units
Sumito Kumagai, Yasumasa Takenaka, Senri Hayashi, Atsushi Katsuragi, Motosuke Imada, Kaoko Sato, Hideki Abe, Noriyuki Asakura

1Pb090 Synthesis of bifunctional aromatic molecular LEGO block having triphenylimidazole moieties and depolymerization of the obtained polymer.
Wataru Morishita, Kaoru Adachi, Takeru Iwamura

1Pa091 Functionalization of biodegradable polylactone (II) -Polymer reaction using halogen as a scaffold-
Rena Yoshida, Masahiro Fujita, Yuko Takeoka, Masahiro Rikukawa

1Pb092 Synthesis and biodegradability of poly(ester-thioethers) containing chiral natural compound units
Ryota Imamura, Akinori Takasu

1Pa093 Synthesis of bio-based polymers from glycerol
Marina Uryu, Shinnosuke Nishimura, Tomoyuki Koga

1Pb094 Cyclic Ketene Acetal Derived from Methyl Methacrylate for Synthesizing Biodegradable Polyester via Radical Ring-Opening Polymerization
Ryousuke Kanai, Shinnosuke Nishimura, Tomoyuki Koga

1Pa095 Seawater degradability of aliphatic polyesters with various dicarboxylic acids
Tomoka Shuto, Ryo Tanaka, Yuushou Nakayama, Takeshi Shiono, Shodai Hino, Norioki Kawasaki, Naoko Yamano, Atsuyoshi Nakayama

1Pb096 Preparation and Characterization of Amphiphilic PLA-PEG Multi-block Copolymer Monolith
ZIYU MENG, YU-I HSU, Hiroshi Uyama

1Pa097 Synthesis of biobased multiblock copolymers from a salicylic acid-derivative and caprolactone.
Alejandro Ayala Escamilla, Yu-I Hsu, Hiroshi Uyama

1Pb098 Synthesis of sulfur-containing epoxy cured materials from sulfur, a surplus resource, and their recycling properties.
Shun Hashimoto, Ryuto Nishimura, Akiyoshi Horiguchi, Yuichiro Kobayashi, Hiroyasu Yamaguchi

1Pa099 Synthesis of marine bio-based network polymers using fish oil and whale oil
Yohtaro Inoue

1Pb100 Grafting of Biodegradable Polymers onto Nanocarbon Materials Surface by Using Polymer Reactions
Yuka Mizuochi, Taiga Matsumoto, Kazuhiro Fujiki, Norio Tsubokawa

1Pa101 Grafting of Biodegradable Polymers onto Nanocarbon Materials Surface by Using Polycondensation
Taiga Matsumoto, Yuka Mizuochi, Kazuhiro Fujiki, Norio Tsubokawa

1Pb102 Chemical modification of polyhydroxyalkanoate copolymers with unsaturated side chain to broaden its prospect as a practical material
Yusuke Nakata, Ayata Nakagawa, Yuki Miyahara, Takeharu Tsuge

- 1Pa103 Introduction of hydroxyl group by thiol compounds to poly(butylene succinate) derivatives and their structural analysis
Ryo Ikeda, Nalinthip CHANTHASET, Hiroharu Ajiro
- 1Pb104 Efficient oxidation of allyl ether cellulose using ionic liquid-type phase transfer catalysts
Miho Yamamoto, Takeshi Kakibe, Satoshi Matsuda, Hajime Kishi

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

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 1Pc001 Synthesis of Functional Star-Shaped Polymers Using Caffeic Acid-Derived Vinyl Catechol
Shiho Tanizaki, Tomohiro Kubo, Kotaro Satoh
- 1Pd002 RAFT Copolymerization of Vinyl Acetate and Various Vinyl Ethers
Taigo Morioka, Junichiro Takahashi, Riko Kashima, Tomohiro Kubo, Kotaro Satoh
- 1Pc003 Addition-Fragmentation Ring-Opening Polymerization of Various Cyclic Thiocarbonyl Monomers for Degradable Vinyl Polymers Synthesis
Ryoya Kamiki, Tomohiro Kubo, Kotaro Satoh
- 1Pd004 Development of Novel Bio-Based Polymers by Radical Copolymerization of β -Pinene-Derived Thiocarbonyl Monomers
Tomohiro Ikeyama, Ryoya Kamiki, Tomohiro Kubo, Kotaro Satoh
- 1Pc005 Synthesis of heteroaromatic ring-containing polymeric materials using deep eutectic solvents
Yuji TSUHARA, Hideharu MORI
- 1Pd006 First calculation of Q-e values of individual polymer radicals and monomers using the revised Q-e scheme
Susumu Kawauchi
- 1Pc007 Radical Copolymerization of Vinyl Ethers with Zwitterion and Maleimides with Various Substituents: Effect of Substituents on Biocompatibility of the Copolymers
Tamotsu Hashimoto, Tomoyuki Yamaguchi, Chika Kuragasaki, Michio Urushisaki, Toshikazu Sakaguchi, Tadashi Nakaji
- 1Pd008 Radical Copolymerization of N-Alkylmaleimides and Vinyl Ethers with Various Substituents: Effects of Substituents on Thermal Stability, Optical Property and Biocompatibility of the Copolymers
Tamotsu Hashimoto, Kanta Sato, Hiroki Kubota, Michio Urushisaki, Toshikazu Sakaguchi, Tadashi Nakaji
- 1Pc009 Development of Macromonomer Synthesis Technology Containing Polar Groups
Junji Miura, Go Otani
- 1Pd010 Stereospecific radical polymerization of N-isopropylacrylamide in the presence of carboxylic acids.
Yuto Takahashi, Tomohiro Hirano, Miyuki Oshimura, Koichi Ute
- 1Pc011 Synthesis of degradable copolymer of N-vinylacetamide and 2-methylene-1,3-dioxepane
Mukmin Sapto Pamungkas, Tsuyoshi Ando, Hiroharu Ajiro
- 1Pd012 Synthesis and radical polymerization of optically active [3.4](3,9)carbazolophane derivatives having acrylate group
Asuka Jo, Hiroaki Chihara, Rin Sotani, Miyuki Masaki, Kazushige Hori, Kenta Goto, Fumito Tani, Yuji Kinose, Yoshinobu Tsujii, Maeno Ayaka, Tanaka Hiroyuki, Hironori Kaji, Keita Tani
- 1Pc013 Synthesis of carbazolophane derivatives having substituent at 6-position and their macrocyclization
Hiroaki Chihara, Miyuki Masaki, Kazushige Hori, Tamaki Nakano, Masayoshi Bando, Keita Tani
- 1Pd014 Chemoselective anionic polymerization of diacrylates by Lewis pair catalyst
Masatoshi Deshimaru, Shin-ichi Matsuoka
- 1Pc015 Studies on radical polymerization of bulky styrene derivatives and properties of the polymers including circularly polarized luminescence
Masayoshi Bando, Zhiyong Fang, Tamaki Nakano

- 1Pd016 Vinyl polymers degradable by main-chain scission by intramolecular transesterification
Koki Naganuma, Yasuhiro Kohsaka
- 1Pc017 Synthesis of Allylic Multi-Substituted Methacrylates/Methacrylonitriles as Radical Chain-Transfer Agents for Sulfur-Free Pressure Sensitive Adhesive
Ryo Kawatani, Mizuki Yoshino, Tsuyoshi Miyamoto, Yasuhiro Kohsaka
- 1Pd018 Polymerization of cyclic styrene derivatives with various characteristic bonds: Effects of characteristic bonds on polymerizability
Shoji Hirabayashi, Yota Chiba, Kawatani Ryo, Yasuhiro Kohsaka
- 1Pc019 Polymerization of Vinyl Monomers in "RAFTgel" using Blue LED
Shuji Yamada, Yuto Ide, Akinori Takasu
- 1Pc021 Thermoresponsive irreversible network formation by ionic interaction between multiarm star poly(N-isopropylacrylamide) and polyamines
Asaka Nishigaki, Shohei Ida, Shokyoku Kanaoka
- 1Pd022 Film properties derived from intermolecular interaction induced by cholesterol-end groups of arm chains of multiarm star polymers
Akira Kanamaru, Shohei Ida, Shokyoku Kanaoka
- 1Pc023 A relationship between LCSTs and orientation of surface substituents of PAMAM dendrimers having oxazine derivatives.
Kai Ota, Yui Nishikawa, Keigo Aoi
- 1Pd024 LCST behavior of pNIPAAm appended cavitand
Ryota Kameda, Takeharu Haino, Takehiro Hirao
- 1Pc025 Synthesis of *Janus* diblock copolymer consisting of well-defined hyperbranched poly(thienylene-phenylene) and hyperbranched polyamide by click reaction
Arisa YAMAMOTO, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 1Pd026 Investigation of ring-opening metathesis polymerization of hyperbranched polyamide macromonomers bearing *exo*-norbornene moiety and synthesis of brush block copolymers
Shuuji NAKAZAWA, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 1Pc027 Synthesis of Poly(quinolylene-2,3-methylene) Bearing Porphyrin Backbone at the Chain End
Aoto Nakajima, Naoya Kanbayashi, Taka-aki Okamura, Kiyotaka Onitsuka
- 1Pd028 Synthesis of π -conjugated polymers with oligourethane side chains
Yamato Watanabe, Shunya Inayama, Shotaro Hayashi
- 1Pc029 Synthesis and surface characterization of star-shaped polycaprolactone end-functionalized with both cinnamoyl and ionic bonding perfluoroalkyl groups
Shumpei Tsubaki, Yuya Wakabayashi, Kenji Sugiyama
- 1Pd030 Synthesis and solution behavior of amphiphilic AB₂ heteroarm star-shaped polymer containing cinnamoyl groups
Naoya Kondo, Kenji Sugiyama
- 1Pc031 Synthesis of cyclic graft copolymer by combining of ring-expansion RAFT polymerization and anionic ring-opening polymerization.
Kenyu Kitamura, Jin Motoyanagi, Masahiko Minoda
- 1Pd032 Development of self-healing materials based on pendant amino acid-containing random and triblock copolymers
Ryo Kudo, Ryo Yonenuma, Hideharu Mori
- 1Pc033 Novel synthesis of branched PEG derivatives from sugar alcohols and their application for medical and environmental materials
Ko Sato, Michihiro Iijima
- 1Pd034 Synthesis and properties of novel polymers having phenyl-substituted cage silsesquioxanes in the main chains.
Yuta Hirosawa, Hiroaki Imoto, Kensuke Naka
- 1Pc035 Synthesis and properties of polysiloxanes using UV-resistant trifluoropropyl-substituted incompletely caged silsesquioxane
Miku Kosaka, Taishi Nakano, Kenji Kanaori, Hiroaki Imoto, Kensuke Naka
- 1Pd036 Synthesis of Botryosin-type polymer containing acetal bond in the main chain and their application for resist material
Riku Akabane, Hiroyuki Maekawa, Hiroto Kudo

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 1Pd038 Analysis of Polyurethane materials by Decomposition in Subcritical fluid and Mass Spectrometry
Tomohiro Tatebe, Yusuke Yokoyama, Masato Kishiwaki, Fumiharu Takahashi
- 1Pc039 Investigation of polymer separation, detection, and semi-quantitative analysis using HPLC with Charged Aerosol Detector (CAD).
Ryuta Yonemoto, Kyoko Fukushima
- 1Pd040 Super-resolution fluorescence optical microscope imaging of polymer structure in non-aqueous system
Ryosuke Anraku, Kazuya Motohira, Hiroyuki Matsukizono, Yasushi Okumura, Hirotsugu Kikuchi
- 1Pc041 Synthesis of Supramolecular Complexes Controlled by Cooperative Molecular Recognition of Multilayered Porphyrin
Tomoki Kodama, Naoyuki Hisano, Takeharu Haino
- 1Pd042 Study on Entangled Structure of Polymer Chains Using Python
Isamu Riku, Koki Tanaka, Koji Mimura
- 1Pc043 Synthesis and Guest Binding Behavior of Macrocyclic Tetrakisporphyrin with Two Cavities
Kouta Tanabe, Naoyuki Hisano, Takeharu Haino
- 1Pd044 Main chain conformation of optically active syndiotactic poly(substituted methylene)s
Masamichi Kiyoura, Yosuke Aizawa, Naruki Kurokawa, Masatoshi Tokita
- 1Pc045 DIC Analysis on Crack Properties of Liquid Crystal Elastomers
Shunsuke Imai, Thahn-Tam Mai, Kenji Urayama
- 1Pd046 Supramolecular liquid crystals formed by the chiral metallomesogen: development of host-guest systems
Shiho Akiba, Jun Yoshida
- 1Pc047 Columnar liquid crystals formed by C_3 symmetric mesogens and their solution behavior
Natsuki Yabe, Jun Yoshida
- 1Pd048 Understanding the microscopic structure of columnar liquid crystals formed by norcorroles
Shunsuke Sato, Hiromitsu Maeda, Go Watanabe
- 1Pc049 Thermal Properties and Effects of Hydrogen Bond in Main-Chain Polyurethanes Exhibiting a Highly Ordered Liquid Crystalline Phase
Ryoga Nishimura, Masanori Nata, Seiji Ujiie
- 1Pd050 Three-dimensional visualization of polymer orientation in liquid crystal/polymer composites using bifunctional dichroic fluorescent dyes
Takanobu Hirose, Hiroyuki Matsukizono, Yasushi Okumura, Hirotsugu Kikuchi

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 1Pd052 Synthesis of Nitrile N-Oxide-based Fluorescent Labeling Agent and Modification of ABS Resin
Yuki Oku, Noriyuki Nakajima, Masahiro Hamada, Yasuhito Koyama
- 1Pc053 S-Vinyl Sulfide-Derived Pendant-Type Sulfone/Phenoxazine-Based Polymers Exhibiting Thermally Activated Delayed Fluorescence
Jun Kosai, Hideharu Mori
- 1Pd054 Creation of Novel Emitting Amorphous Molecular Materials Possessing Two and Three Cyanostilbene Moieties in a Molecule.
Yuito Shimazaki, Hideyuki Nakano
- 1Pc055 Kinetics of Photolysis of Iodonium Salts Sensitized by Near IR Sensitive Dyes
Mayu Masuda, Atsushi Shiraishi, Kohei Iritani, Ayumi Kobayashi, Takashi Yamashita
- 1Pd056 Photoalignment of microphase separated structure in high Tg block copolymer thin films with azobenzene-containing high temperature LC block chain
Shoto SUZUKI, Yuya ISHIZAKI, Mitsuo HARA, Takahiro SEKI, Shusaku NAGANO

- 1Pc057 Improvement of cycle characteristics of polymer gel switchable silver mirror devices
Ryo Kawara, Atsushi Aoki
- 1Pd058 Development of Acetal-Protected Dissolution Inhibitors in Chemically Amplified Three-Component Novolac Resists
Katsuaki Takashima, Hideo Horibe
- 1Pc059 Ruthenium-Based Electrochromic Metallo-supramolecular Polymer: Design, Synthesis and Device Application
Banchhanidhi Prusti, Masayoshi Higuchi
- 1Pd060 The Development of Stimuli-Responsive Soft Materials by Functionalization of Aggregation-Induced Emission-Active Luminophores
Kensho Iwai, Yukinori Kokubo, Miyu-u Abe, Shoya Yamada, Atsushi Seki, Ken'ichi Aoki
- 1Pc061 Effect of alkylene spacer length of diacetylenediamide derivatives on molecular organization and subsequent photopolymerization behaviors
Saya Kato, Ryohei Dobashi, Yuya Kondo, Nobuyuki Tamaoki, Atsushi Seki, Ken'ichi Aoki
- 1Pd062 Characterization of novel chemically amplified resists with dendritic cores synthesizable in large scales.
Masayuki Kessoku, Taketo Matsumaru, Yuta Tanaka, Takeo Watanabe, Atsushi Seki, Ken'ichi Aoki
- 1Pc063 Synthesis of indigo-based poly(arylenevinylene) via hydroarylation polyaddition and its optical properties.
Atsuki Sasa, Ryota Iwamori, Junpei Kuwabara, Takaki Kanbara
- 1Pd064 Molecular organization and photopolymerization behaviors of diacetylene bisurethane crystals affected by prebake treatments
Karin Tagami, Yuya Kondo, Nobuyuki Tamaoki, Atsushi Seki, Ken'ichi Aoki
- 1Pc065 Optical properties of nanographenes carrying triphenylamine derivatives
Saki Arimura, Ikuya Matsumoto, Ryo Sekiya, Takeharu Haino
- 1Pd066 Photophysical properties of glassy materials composed of fluorescent bipyridyl with acids
Mahiro Nakabayashi, Takumi Matsuo, Shotaro Hayashi
- 1Pc067 Highly sensitive nonlinear optical response of oligothiophene dye-doped liquid crystals: effect of host structure
Junki Yokota, Miho Aizawa, Kyohei Hisano, Shoichi Kubo, Rumiko Yamaguchi, Atsushi Shishido
- 1Pd068 Synthesis and property of hemiacetal compounds for application of EUV resist materials.
Kouta Iwane, Hiroto Kudo
- 1Pc069 Fine pattern formation of poly(vinyl acetate) utilizing nucleophilic acyl substitution reaction at side chains
Shiori Hidehira, Toshiyuki Oyama
- 1Pd070 Design of high-efficiency photon upconversion materials based on polymer host-guest materials with room-temperature phosphorescence properties
Shota Watanabe, Toshiyuki Watanabe, Kenro Totani
- 1Pc071 Effect of Base Polymer Differences on Resist Properties in Chemically Amplified Three-Component Resists
Daiki Madokoro, Katsuaki Takashima, Susumu Tanaka, Tomoyuki Yuba, Hideo Horibe
- 1Pd072 Improvement of photoinduced surface relief of bisanthracene thin films by modification of connecting groups
Yuya Miyoshi, Shu Aoki, Kota Marumoto, Taishi Sonoda, Takashi Ubukata
- 1Pc073 Step- π -conjugated polymers (213) Consideration of distance dependence on photoinduced electron transfer by structure-controlled macromolecular wires.
Nozomi Tokura, Haoxuan GUO, Hiroyuki Aota
- 1Pd074 Step- π -conjugated polymers (214) Synthesis and photochemical behavior of A, B-block type macromolecular wire with different energy levels for long lived charge separation
Takuya Inoue, Haoxuan Guo, Hiroyuki Aota
- 1Pc075 Visible light induced radical curing behavior of multi-functional acrylates containing chloranil and arene
Keigo Hayashi, Daisuke Aoki, Koji Arimitsu
- 1Pd076 Visible light induced anionic curing behavior of epoxy-thiol mixed resins using photobase generator
Yuga Morikawa, Daisuke Aoki, Koji Arimitsu

- 1Pc077 Synthesis of Multifunctional Block Copolymers with Poly(3-hexylthiophene) and Vinyl Polymer Segment
Shin Inagaki, Kazuhiro Nakabayashi, Tomoya Higashihara
- 1Pd078 Industry-academia consortium for co-creation of polymer properties database
Aiko Takahashi, Yoshihiro Hayashi, Ryo Yoshida
- 1Pc079 Creation of a composite gel material composed of a polymer hydrogelator and WO₃ microparticles
Chie Nitta, Yutaka Ohsedo
- 1Pd080 Creation of spreadable adsorbent materials using a polymer gelator
Mai Hirukawa, Mei Watanabe, Yutaka Ohsedo
- 1Pc081 The Integration of Sequential Experimental Design and automated polymer physical property calculations : Exploration of polymers with High Refractive Index and High Abbe Number
Shun Nanjo, Ari, Yoshihiro Hayashi, Ryo Yoshida
- 1Pd082 Controlled Photoinduced Electron Transfer via Triplet in Polymer Matrix Using Electrostatic Interactions
Yilin Cao, Yuichiro Kobayashi, Hiroyasu Yamaguchi
- 1Pc083 Creation of polybenzoxazine hydrogel thin films and their electrical properties
Ami Kaneizumi, Yutaka Ohsedo

E. POLYMERS AND ENVIRONMENT

- 1Pd086 Functional Properties and Biodegradability of Phosphorylated Ethylene-Vinyl Alcohol Copolymers
Takumi OKIHARA, Muneharu KUROSAKI, Yukihiro KISHIMOTO
- 1Pc087 Development of self-healable and elastomeric biomass polymer using various types of diisocyanate linkers
Shuhei Takamura, Naruki Kurokawa, Atsushi Hotta
- 1Pd088 Influence of initiator on physical property and degradability of degradable polymer
Shinnosuke Akagawa, Miku Iwasaki, Sae Kubota, Chikara Tsutsumi, Susumu Nakayama
- 1Pc089 Experimental observation of PLA on the initial process of embrittlement
Yutaka Kobayashi, Tsubasa Ueda, Yuta Yamada, Makoto Ito, Zhiyu Zhang, Zhiye Tang, Susumu Okazaki, Daisuke Iwahara, Shotaro Nishitsuji, Hiroshi Ito
- 1Pd090 Effect of Surface Modification of Microorganism-derived Cellulose Nanofibers on Improvement of Resin Properties
Shuichiro Seno, Hiroshi Kani, Masaaki Hosokawa, Hamida binti Hashim, Nur Aisyah Adlin binti Emran, Satoshi Katsuhara, Hiroko Ninoyu, Haruto Tsujisaki, Xiaochao Xia, Takuya Isono, Takuya Yamamoto, Toshifumi Satoh, Hiroshi Orihiara, Kenji Tajima, Hiroyuki Kono
- 1Pc091 Development of cellulose acetate modified with ferulic acid for CO₂ separation
Koto Namba, Kei Machigashira, Yuki Yanase, Kenji Ogino, Shinji Kanehashi, Junichi Kamagata, Hitoshi Aoki
- 1Pd092 Basic research to realize naturally derived composite materials that can be made with low energy consumption, mainly using chitin/chitosan
Tomohisa Suzuki, Olaf Karthaus
- 1Pc093 Evaluation of film materials using starch and cellulose
Yusaku Koitabashi, Yuji Kimura
- 1Pd094 Synthesis and Analysis of Recyclable Native-lignin Derivative by Grafting with Bulky Alkyl Phenol
Yuji Haraguchi, Mitsuru Aoyagi
- 1Pc095 Preparation of Cast Film of Polystyrene and Lignoanisole
Kai Isozaki, Mitsuru Aoyagi
- 1Pd096 Comparison of Thermal Properties of Native Lignin Derivatives Grafting with Naphthol
Tomoya Horii, Mitsuru Aoyagi
- 1Pc097 Remoldable Tough Elastomer Based on Crosslinked Polymethylcaprolactone-grafted Polyrotaxane via the Diels-Alder Reaction
Adriana Saikali, Yuya Oyama, Naruki Kurokawa, Atsushi Hotta
- 1Pd098 Enhancement of Antioxidative Ability of Various Lignin Derivatives by Demethylation

Yumemi Ishigaki, Ayumi Kobayashi, Kohei Iritani, Misato Kashiba, Thi Thi Nge, Tatsuhiko Yamada, Takashi Yamashita

- 1Pc099 Development of bio-based epoxy resins derived from non-edible biomass waste
Kaito Furukawa, Shinji Kanehashi
- 1Pd100 Disintegration of light-switching biodegradable polymer in marine field
Akihiko Masui, Yuzuko Toyoshima, Satoshi Ikawa, Hideo Okamura, Atsuyoshi Nakayama
- 1Pc101 Biodegradation tests of various polyhydroxyalkanoates under marine system
Zihan Qie, Tetsuo Sakurai, Yuki Miyahara, Takeharu Tsuge
- 1Pd102 Investigation of an extracellular polymeric substance produced by a marine microorganism
Ryui Murata, Shin-ichi Hachisuka, Yuki Miyahara, Takeharu Tsuge
- 1Pc103 Microbial secretion of phenol-terminated oligoesters and their polymerization
Tota Takahashi, Tetsuo Sakurai, Manami Hyakutake, Seiichi Taguchi, Takeharu Tsuge
- 1Pd104 Multi-faceted degradation evaluation of PET bottles subjected to outdoor exposure test
Takaya Satoh, Azusa Kubota, Chikako Nakayama, Yusaku Sakuda, Koji Yazawa, Koji Takahashi, Masahiko Asano
- 1Pc105 Polymerization of vinyl ethers using neutral silicon lewis acids and copolymerization with caprolactone
Satohiro Yamamoto, Ryo Tanaka, Yuushou Nakayama, Takeshi Shiono
- 1Pd106 New synthesis and evaluation of polypyrrole by polymerization with plasma
Kazuki Yanagida, Kyoka Komaba, Hiromasa Goto

Presentation Time

<e = 15:20~16:00>

<f = 16:00~16:40>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 1Pe001 Direct Radical Polymerization of C=O Double Bond of Carbonyl Compounds for Novel Copolymers Having C-O bonds in the Backbone
Taiki ISODA, Hironobu WATANABE, Mineto UCHIYAMA, Masami KAMIGAITO
- 1Pf002 Design and Synthesis of Degradable Polymer by Radical Isomerization Polymerization
Masato IMAI, Mineto UCHIYAMA, Masami KAMIGAITO
- 1Pe003 Synthesis of Vinyl Polymers Analogues Having Sulfur Atoms in the Backbones by Direct Radical Polymerizations of C=S Double Bond
Tatsuya HATTORI, Hironobu WATANABE, Mineto UCHIYAMA, Masami KAMIGAITO
- 1Pf004 Development of Degradable Polymers by Radical Copolymerization of exo-Methylene-Type Monomers Containing Nitrogen Atoms
Shoki YOSHIMURA, Chihiro HOMMA, Mineto UCHIYAMA, Masami KAMIGAITO
- 1Pe005 Synthesis of Bridged Polyketones by the Development of Radical Stitching Polymerization
Yusuke Hamada, Soya Togawa, Ryo Shintani
- 1Pf006 Formation Mechanism of Thermogelling Poly(NIPAM-TBAM) Prepared by Dispersion Polymerization
Kodai Shintani, Hidetaka Kawakita, Keisuke Ohto, Shintaro Morisada
- 1Pe007 Synthesis and Properties of Novel Fluoropolymers by Copolymerization of [1.1.1]Propellane and Fluoroalkenes
Mizuki Okuda, Junki Masuda, Ai Kohata, Shintaro Nakagawa, Kimiaki Kashiwagi, Norihide Sugiyama, Takashi Okazoe, Daisuke Kawaguchi, Midori Akiyama
- 1Pf008 Exchange Reaction Utilizing Electronic Effects of Polystyrene Derivatives bearing Acylhydrazone moieties
Akito Moriya, Kounosuke Ohata, Shusuke Okamoto, Daisuke Nagai
- 1Pe009 Polymerization between Clay Layers with Cationic Radical Initiators
Takahiro Tamaru, Takahiro Kakuta, Tada-aki Yamagishi
- 1Pf010 Effect of Sulfuric Acid Addition on Polymer Synthesis by Plasma-in-Liquid Process
Keito Tomita, Junko Hieda

- 1Pe011 Synthesis of fluorine-containing transparent polyacrylates using a cyclic fluoroalkane as a building block
Haruka Kobayashi, Kanae Nagai, Fumiya Sato, Masaru Kondo, Tomohiro Agou, Hiroki Fukumoto
- 1Pf012 Synthesis of thermoresponsive polymers with biodegradable units
Atsushi Endo, Eisuke Hirano, Atsushi Matsumoto, Yasushi Maeda, Shinji Sugihara
- 1Pe013 Synthesis of alternating copolymers bearing quaternary ammonium salts and their antimicrobial properties
Baku Koito, Jin Motoyanagi, Chikara Kataoka, Yuji Aso, Chikara Kataoka
- 1Pf014 Effects of functional group of side chains on site-specific sidechain conversion reaction of acrylic oligomers
Honoka Moriguchi, Yusuke Saito, Shota Iseri, Sotaro Tsuji, Yukiko Nagai, Toshikazu Ono, Hisashi Shimakoshi, Yu Hoshino
- 1Pe015 Synthesis of precise oligomer bearing activated ester by radical polymerization and their side chain conversion
Sotaro Tsuji, Yukiko Nagai, Toshikazu Ono, Hisashi Shimakoshi, Yu Hoshino
- 1Pf016 Luminescent Molecules Due to the Layering of Side-Chain Dyes via RAFT Polymerization
Masaya Ifuku, Shota Iseri, Yukiko Nagai, Hisashi Shimakoshi, Toshikazu Ono, Yu Hoshino
- 1Pf018 Oxidative polymerization of 2,6-bis(4-hydroxy-3,5-di-tert-butylphenyl)benzo[1,2-b:5,4-b']difuran
Yuto Tokunaga, Masahiro Teraguchi, Toshiki Aoki, Takashi Kanako
- 1Pe019 Synthesis of polybenzothiazoles by oxidative cyclopolymerization from aromatic diamines, aliphatic dialdehydes, and sulfur
Yuito Koganezawa, Takesi Yamanobe, Masaru Yoneyama
- 1Pf020 Synthesis and property of Polymers containing Curcumin in the main chain, and their refractive index property
Kenta Onishi, Hiroto Kudo
- 1Pe021 One-pot synthesis of phenol-polymers from benzene with hydrogen peroxide catalyzed by osmium tetroxide
Kenshin Miyata, Hideki Sugimoto, Yuta Ueda, Akiyuki Nakano, Hideyuki Higashimura, Shinobu Itoh
- 1Pf022 Ring-opening reaction of norbornadiene dimers containing cyclopropane and synthesis of (meth)acrylate polymers with high thermal stabilities
Miona Iwai, Shin-ichi Matsuoka
- 1Pe023 Synthesis and Application of N-Isopropylacrylamide Smart Polymers with Formyl Groups.
Taisei Suzuki, Toru Hoshi, Takao Aoyagi
- 1Pf024 Terpolymerization of epoxides, CO₂, and isocyanates or isothiocyanates for the synthesis of new CO₂-based polymers
Satoshi Muranaka, Koichi Nakaoka, Io Yamamoto, Chihiro Maeda, Kazuto Takaishi, Tadashi Ema
- 1Pe025 Development of Initiators with Various Structures in Controlled /Living Click Polymerization
Satoshi Sakai, Tomohiro Kubo, Kotaro Satoh
- 1Pf026 Click Polymerization of Conjugated AB Monomers with Different Substitution Positions
Seiichiro Uchida, Satoshi Sakai, Tomohiro Kubo, Kotaro Satoh
- 1Pe027 Synthesis and Controlled/Living Click (Co)polymerization of Monodisperse PCL Oligomers
Yasuaki Kobayashi, Satoshi Sakai, Tomohiro Kubo, Kotaro Satoh
- 1Pf028 Polymerization of monodisperse polybutylene succinate oligomers and their degradation studies
Ravi Teja Ananthu, Tomohiro Kubo, Masami Kamigaito, Takako Kikuchi, Kotaro Satoh

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 1Pf030 Mechanical properties and crystallization for the blend film between medium-chain length poly(3-hydroxyalkanoate) and poly(3-hydroxybutyrate).
Mituki Ueda, Takahiko Nakaoki

- 1Pe031 Improvement of physical properties of syndiotactic polystyrene film by casting at required temperature.
Mikito Nishioka, Takahiko Nakaoki
- 1Pf032 Separation of Butanol in Butanol/acetone/water solution by Nanoporous Syndiotactic Polystyrene
Rei Miyauchi, Takahiko Nakaoki
- 1Pe033 Structural Changes in Crystalline Polymer Materials Induced by Exposure to High-Pressure Hydrogen Gas: Characterization of Polymorphic and Higher-Order Structural Changes by X-ray Scattering
Keiko Ohyama, Fumitoshi Kaneko, Shin Nishimura
- 1Pf034 Structural Changes in Crystalline Polymer Materials Induced by Exposure to High-Pressure Hydrogen Gas: In-Situ Observation by Infrared Spectroscopy
Fumitoshi Kaneko, Keiko Ohyama, Hirota Fujiwara, Shin Nishimura
- 1Pe035 Chiral selecting crystallization of helical polymers: A molecular dynamics simulation
Takashi Yamamoto
- 1Pf036 Higher-order structural analysis of poly(trimethylene terephthalate) by Low-Frequency vibrational spectroscopy and quantum chemical calculations
Yota Maruyama, Harumi Sato
- 1Pe037 Analysis of Lamellar Orientation in Polymer Ring-Banded Spherulites Using Polarized Micro-Raman spectroscopy.
Koichi Matsuo, Yasushi Maeda, Shinji Sugihara, Atsushi Matsumoto
- 1Pf038 Ductile deformation mechanism of stretched poly (methyl methacrylate) film
Seiya Mori, Katsuhiko Inomata, Shogo Nobukawa
- 1Pe039 In-situ Examination of Nano-to-Meso Scale Structural Changes in Marine-Degradable Polyester Films during Tearing by Utilizing Synchrotron X-ray Analysis
Keito Shimakawa, Hiroto Osakaki, Ryu Miyazima, Nguyen Toan, Hiroyasu Masunaga, Sono Sasaki
- 1Pf040 Physical properties of polylactic acid/cyclodextrin dimer blend
Kou Miyazaki, Syuhei Ikura, Hiroaki Takahashi, Motofumi Osaki, Hidenori Shirakawa, Yoshinori Takashima, Go Matsuba
- 1Pe041 Structural analysis of films with side-chain crystalline components
Kazuki Suzuki, Go Matsuba, Tomoya Okada, Minoru Nanti, Takumi Kato, Kengo Isoda
- 1Pf042 Origin of a characteristic profile of wide-angle X-ray scattering for poly(4-bromostyrene).
Tatsuki Nakane, Karin Ishiguro, Takashi Sasaki
- 1Pe043 A study of higher-order structure of PCL-PLA copolymer with different component ratio by low-frequency vibrational spectroscopy
Masahiro Hatayama, Harumi Sato
- 1Pf044 Correlation Analysis of Crystallization and Strain Distribution of Natural Rubber under Non-uniform Deformation Using Thermography and DIC
Daichi Nozaki, Thanh-Tam Mai, Katsuhiko Tsunoda, Kenji Urayama
- 1Pe045 Effects of branched structure on crystal nucleation and mechanical properties of poly(oxymethylene)
Tetsuya Kotani, Hiroki Takeshita, Takumitsu Kida, Katsuhisa Tokumitsu, Yuhki Kanda
- 1Pf046 Analysis of PVDF crystal structure in PVDF/PMMA blends (2)
Rento Oshika, Kakeru Osuga, Yuta Hikima, Hideo Horibe
- 1Pe047 Flow-induced crystallization of poly(lactic acid) containing fibrous nucleating agent
Dai Hoang Giang Vo, Masayuki Yamaguchi
- 1Pf048 Structure formation in crystallization of biobased polymers designed for chemical recycling
Aki Nishiyama, Hiroki Takeshita, Takumitsu Kida, Katsuhisa Tokumitsu, Kotohiro Nomura
- 1Pe049 Morphology generated during melting and recrystallization process of polymer spherulites
Yuta SHINMURA, Masato HASHIMOTO, Tomoko MIZUGUCHI, Susumu FUJIWARA
- 1Pf050 Crystallization behavior and molecular dynamics of poly(L-lactic acid) blended with poly(oxymethylene)
Norihiko Sakaguchi, Hiroki Takeshita, Yuuka Nagata, Takumitsu Kida, Katsuhisa Tokumitsu
- 1Pf052 Molecular dynamics simulation of anion-exchange membranes used for fuel cells

Takumi Kawaida, Tetsuro Nagai, koji Yoshida

- 1Pe053 Effects of orientation on the vibration-damping properties of liquid crystalline polymers
Keigo Sawada, Hiroki Takeshita, Takumitsu Kida, Katsuhisa Tokumitsu
- 1Pf054 Anomalous increase of spherulitic nuclei of it-polystyrene by heat treatment near glass transition temperature
Daichi Inagaki, Yasutoshi Tanzawa, Shuma Yoshida, Satomi Mizutani
- 1Pe055 Accurate structure prediction of organic semiconductor crystals based on computational science
Ryosuke Ito, Shunsuke Sato, Takuya Seki, Jun Takeya, Toshihiro Okamoto, Go Watanabe
- 1Pf056 Study on Brill transition of polyamide using multiple spectroscopic techniques
Jiacheng Gao, Harumi Sato

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 1Pf058 Preparation of a gold thin film using the growth of gold nanoparticles immobilized on a plastic surface presenting amino groups
Sarina Yoshida, Takane Tsuchi, Mimari Matsumoto, Kenta Morita, Tatsuo Maruyama
- 1Pe059 Inorganic Supramolecular Polymers Self-Assembled from 2D Nanomaterials
Natsuko Ueno, Yasuo Ebina, Takayoshi Sasaki, Koki Sano
- 1Pf060 Inorganic Supramolecular Nanosheets Self-Assembled from 1D Nanomaterials
Daisuke Ogawa, Koki Sano
- 1Pe061 Development of multifunctional ionic nanoparticles for medical application by block polymers with ionic poly(amino acid)s
ryuto ozawa, Iijima Michihiro
- 1Pf062 Induced axial chirality of biaryl compounds in the presence of chiral silica
Shunpei Yoshimori, Renhua Jin
- 1Pe063 Chirality appearance by complexing polyethyleneimine with chiral acids and chiral transfer from the complexes to silica.
Riku Matsuda, Renhua Jin
- 1Pf064 Development of phenylboronic acid-containing supramolecular sensor for hydrogen peroxide detection
Tomoki Tanigawa, Masashi Ishida, Akitaka Ito, Masayuki Izumi, Rika Ochi
- 1Pe065 VOC sensing by TiO₂ coated conductive peptide-Au nano composites.
Toma iwakiri, Hikari Suzuki, Shogo Matsubara, Masahiro Higuchi
- 1Pf066 Construction and thermal conductivity evaluation of films composed of nanosheet-shaped cellulose assemblies
Hiroto MARUYAMA, Yuuki HATA, Toshiki SAWADA, Mitsuo HARA, Takeshi SERIZAWA
- 1Pe067 Mixed Electrospinning of Hydrophilic Cyclodextrins
Yuto Sasakawa, Hiroaki Yoshida, Hiroharu Ajiro
- 1Pf068 Modification of Pseudo-Polyrotaxane Nanosheets Using Trimethylpropane Triglycidyl Ether (TMPTG)
Di Liu, Shuntaro Uenuma, Hideaki Yokoyama, Kohzo Ito
- 1Pe069 Synthesis of water-soluble dendrimers with terminal amine hydrochlorides and their application to molecular capsules
Shogo Tago, Shohei Shiraishi, Atsushi Seki, Ken'ichi Aoki
- 1Pf070 Structural Effect of Building Block on Construction of Aggregation-Induced Emission Monolayer
Tento NAGASAWA, Ayumi KOBAYASHI, Kohei IRITANI, Takashi YAMASHITA
- 1Pe071 Preparation of Supramolecular Structures from Various Types of Methylated Cyclodextrins
Haruya Ishida, Momoka Miyasaka, M Justine Kalaw, Hajime Shigemitsu, Toshiyuki Kida
- 1Pf072 Synthesis of carboxyl-modified dendrimers and their properties of water-soluble molecular capsules
Mizuki Tanaka, Shogo Tago, Reo Sugai, Atsusi Seki, Ken'ichi Aoki
- 1Pe073 Effects of the addition of metal salts on the molecular assembly of azacalixarene triazine using multiple hydrogen bonds.
Tomohiro Suzuki, Tadashi Tsukamoto, Yoshiyuki Oishi, Yuji Shibasaki

- 1Pf074 Synthesis and characterization of unidirectionally alignable polymer-grafted nanorods
Asuka Hayashi,Kaho Nakano,Shoichi Kubo,Atsushi Shishido
- 1Pe075 Preparation of Hollow Particles using Soap-Free Emulsion Polymerization
Taketo Tokuda,Shin-ichi Yusa
- 1Pf076 Research on metronomic photodynamic therapy using implantable light-emitting device with polydopamine-modified nanosheets
Yu Oba,Shinji Takeoka
- 1Pf078 Development of Low-CTE Polyimides for Flexible Printed Circuit Boards (3)
Naoya Nakano,Junichi Ishii,Masatoshi Hasegawa
- 1Pe079 Polybenzoxazoles with Low Coefficient of Thermal Expansion (16). Modification Effects of Unsymmetrical Monomers
Yudai Hayashi,Junichi Ishii,Masatoshi Hasegawa
- 1Pf080 Organo-Soluble Low CTE Polyimides (18). Effects of Ether-linked Monomers
Shinya Ichikawa,Junichi Ishii,Masatoshi Hasegawa
- 1Pe081 Polybenzoxazoles with Low Coefficient of Thermal Expansion (17). Effects of Fluorinated Monomers.
Kakeru Onodera,Kouhei Kikuchi,Junichi Ishii,Masatoshi Hasegawa
- 1Pf082 Transparent Thermoplastic Polyimides (13). Thermal and UV rays-stability
Junichi ISHII,Hiroto KAWAMORITA,Naomi SHINDO,Masatoshi HASEGAWA
- 1Pe083 Colorless Polyimides Derived from Novel Spiro-type Monomers (8). Strategies to Overcome the Trade-off between Low CTE and Low Birefringence
Toya IKUMA,Yoshihiko TERADA,Junichi ISHII,Masatoshi HASEGAWA
- 1Pf084 Modified Polyimides Containing Benzazole Units (22). Effects of Monomers with Intramolecular Ring Formation Ability
Yuto ICHIBA,Yuji SAKAGUCHI,Junichi ISHII,Masatoshi HASEGAWA
- 1Pe085 UV-light Lift Off of Polyimide Films (4)
Natsumi TAKAGI,Yuta SHIMODE,Junichi ISHII,Masatoshi HASEGAWA,Kazuya EBARA
- 1Pf086 Low-CTE Colorless Polyimides Suitable for Temporary Adhesion Technique (PITAT) (4)
Kanata NAKADAI,Junichi ISHII,Masatoshi HASEGAWA,Kaya TOKUDA,Tetsuo OKUYAMA,Hiroyuki WAKUI,Naoki WATANABE,Kota KITAMURA
- 1Pe087 Modified Polyimides Derived from Novel Ester-containing Diamines (4). Strategies to Overcome the Trade-off Between Low CTE and Heat-laminating Processability
Keisuke MINAGAWA,Junichi ISHII,Masatoshi HASEGAWA,Takao MIWA,Toshiyuki GOSHIMA,Win Maw SOE
- 1Pf088 Solution-processable Colorless Polyimides Derived from Novel Cycloaliphatic Tetracarboxylic Dianhydride (7)
Masatoshi Hasegawa,Hiroki Sato,Katsuhisa Hoshino,Junichi Ishii
- 1Pe089 Microparticle-based films with crack propagation resistance
Yuma Sasaki,Yuichiro Nishizawa,Takuma Kureha,Kazuya Uenishi,Kazuko Nakazono,Toshikazu Takata,Daisuke Suzuki
- 1Pf090 Preparation and physical property evaluation of poly benzoxazine monolith
Taiyo Fukui,Koji Mitamura,Takahiro Hasegawa,Morio Yonekawa,Hajime Kimura,Mitsuru Watanabe,Masashi Nakamura,Toshiyuki Tamai,Araki Masuyama,Seiji Watase
- 1Pe091 Synthesis of isocyanate-free polyurethanes and their self-healing properties (IV) -Effect of cross-linking agents-
Yukiho Sonoda,Masahiro Fujita,Yuko Takeoka,Masahiro Rikukawa
- 1Pf092 Preparation of rigid polymer network film and conductivity of electrolytes-doped film
Ryohei Nishioka,Atsu Goto,Tetsuya Uchida
- 1Pe093 A Simple Modification Method for the Preparation of Tough Elastomer by the Introduction of Entropy-Driven Hydrogen Bonds
Dian Zhang,Yuki Ishikawa,Shintaro Nakagawa,Naoko Yoshie
- 1Pf094 Study of relationship between molecular structure and dielectric properties of special polycarbonate resin
Momoe Fukita,Masato Nakamura,Takaaki Hikosaka,Hironobu Morishita,Tadashi Inoue,Osamu Urakawa
- 1Pe095 Synthesis and functionalization of semi-aromatic itaconic acid-based polyamide
Rina Tamagaki,Hongrong Yin,Kenji Takada,Tatsuo Kaneko

- 1Pf096 Antibacterial and mechanical properties of cationically endfunctionalized polystyrene
Shunsuke Ishizuka, Tomoki Maeda, Atsushi Hotta
- 1Pe097 Toughening of alicyclic epoxy resin by utilizing in situ polymerization of modifier monomers with flexible side chains
Risa Kimura, Toshiyuki Oyama

E. POLYMERS AND ENVIRONMENT

- 1Pe099 Preparation and Mechanical Characterization of Polyurethane/Cellulose Composite Materials
Ruozhu WANG, Yoshito Andou
- 1Pf100 Study on recovery of metal ions from chelated fibers substituted with amidinourea
Satomi Tanaka
- 1Pe101 Evaluations of Bio-Composites with High Content of Biomass Fiber
Jindi Wu, Yoshito Ando
- 1Pf102 Material recycling of polymer materials composited carbon black utilizing polymer microparticles
Haruka Minato, Nahomi Matsuki, Daisuke Suzuki
- 1Pe103 Gas adsorption properties and pore size of porous coordination polymers for direct air capture (DAC)
Hiroyuki Hosomi
- 1Pf104 Selective accumulation of formaldehyde by soy protein-inorganic composite material
Momoka Uchida, Masanori Yamada
- 1Pe105 Fluorine fixation from fluoropolymers by calcination with lime sludge
Aira Kondo, Shiryu Nagamine, Shunsuke Kuzuhara, Natsuki Hosoya, Ryo Kasuya, Osamu Terakado
- 1Pf106 Comprehensive Risk Assessment of Unregulated-substances in Vehicle Cabin Air
Masahiro Tokumura, Sota Sakai, Kana Omori, Kouichi Tatsu, Takeshi Enomoto, Ayumi Koike, Naohide Shinohara, Tomohiro Sasaki, Masakazu Makino

Wed. Sep 27

Presentation Time

<a = 10:20~11:00>

<b = 11:00~11:40>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 2Pa001 Synthesis and Characterization of New π -conjugated Building Unit with Boron and Sulfur
Ryuji Matsuura, Youhei Adachi, Joji Ohshita
- 2Pb002 Synthesis and optical properties of new π -conjugated compounds with bismuth and boron
Shota Terao, Yohei Adachi, Joji Ohsita
- 2Pa003 Synthesis and Properties of *o*-Carborane Derivative with Chiral π -Conjugated System
Kazuhiro Yuhara, Kazuo Tanaka
- 2Pb004 Synthesis and Optical Properties of Conjugated Polymers Based on Tropolone with an Aromatic Seven-Membered Ring
Hikari Ogoshi, Shunichiro Ito, Kazuo Tanaka
- 2Pa005 Stimuli-Responsive Luminescence of π -Conjugated Polymers Containing Pyridylenolate Complexes of Group 13 Elements and The Application for Thin Film Sensors
Yuto AOYAMA, Shunichiro ITO, Kazuo TANAKA
- 2Pb006 Luminescence Species Control of Conjugated Molecules Based on the Symmetry of Carborane Anions
Takumi Yanagihara, Kazuo Tanaka
- 2Pa007 Degradability Evaluation of Near-Infrared Emissive Organoboron Azopolymers with Fluorescence Detection
Masashi Nakamura, Masayuki Gon, Kazuo Tanaka

- 2Pb008 Synthesis and Optical Properties of *o*-Carborane-based Solid-State-Emissive Material with Controllable Electron Transfer
Shunsuke Nishiyama, Junki Ochi, Kazuo Tanaka
- 2Pa009 Evaluation of Near-Infrared II Light-Absorbing and Emitting Properties of π -Conjugated Polymers Based on Boron-Fused Azobenzene Complexes
Ippei Kanetani, Masashi Nakamura, Masayuki Gon, Kazuo Tanaka
- 2Pb010 Preparation and properties of π -conjugated polymer with ammoniophenothiazine derivatives on the side chain
Hideki Hayashi, Tadashi Ogawa, Hiroshi Seno, Take-aki Koizumi
- 2Pa011 Synthesis of Donor-Acceptor-Type Rigid Polymers with Quinacridone Backbone by Exchange Reaction of Aromatic Imines with Activated Methylene Compounds
Rikarudo Minematsu, Keiya Masumura, Atsushi Kimoto
- 2Pb012 Synthesis of π -conjugated polymers having acridone derivatives with donor-acceptor structure
Keiya Masumura, Rikarudo Minematsu, Atsushi Kimoto
- 2Pa013 Synthesis of a variety of block copolymers consisting of π -conjugated polymers by means of Suzuki-Miyaura coupling reaction
Ryusuke SHIMADA, Yuma TANAKA, Tatsuya UCHIDA, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 2Pb014 Specificity of Suzuki-Miyaura polycondensation for the synthesis of 1:1 cyclic product
Shota SUZUKI, Ryota SHIMADA, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 2Pa015 Preparation of Static Helical Structure in Organic-Inorganic Hybrid Block Copolymers
Sota Iwao, Yoshinobu Nakamura, Syuji Fujii, Tomoyasu Hirai
- 2Pb016 Synthesis and Optical Properties of Near-Infrared Emissive D-A type Dithieno[3,2-b:2',3'-d]arsole Polymers
Chisa Takahara, Hiroaki Imoto, Kensuke Naka
- 2Pa017 Properties of polynorbornenes containing cage silsesquioxanes
Yu Tomioka, Ryota Tanaka, Hiroaki Imoto, Kensuke Naka
- 2Pb018 Structures and Properties of Double-Cyclopolymers Using Trifunctional Incompletely-Condensed Cage Silsesquioxanes with Methacryloyl Groups
Taishi Nakano, Hiroaki Imoto, Kensuke Naka
- 2Pa019 Ultrafine nanostructures from polyhedral oligomeric silsesquioxane-oligosaccharide hybrid materials
Taiki Nishimura, Chieh-Jen Cheng, Feng Li, Takuya Yamamoto, Kenji Tajima, Hsin-Lung Chen, Toshifumi Satoh, Takuya Isono
- 2Pb020 Synthesis of asymmetric double-stranded polymers in coordination nanospaces
Rintaro Yamaguchi, Yuki Kametani, Takashi Uemura
- 2Pa021 Synthesis of crosslinked vinyl polymer bundles in coordination mesopores
Yosuke Nukui, Yuki Kametani, Takashi Uemura
- 2Pb022 Reversible inclusion-dissociation reaction of poly [c2] daisy-chain Rotaxane composed of crown ether and ammonium salt
Moe KODA, Kenjiro ONIMURA, Kazuhiro YAMABUKI
- 2Pa023 Development of functional PET materials using surface graft polymerization
Daiki Kinoshita, Jin Mottoyanagi, Hao Maekawa, Tikara Kataoka, Yuji Aso, Masahiko Minoda
- 2Pb024 Synthesis and ionic conductivity of polyester dendrimers having dianhydroglucitol with an oligoethylene glycol chain
Kouhei Matsuda, Kouta Imori, Takuto Kagawa, Keigo Aoi, Bharat Srimitra Mantripragada, Noriyoshi Matsumi
- 2Pa025 Preparation of amphiphilic network polymers consisting of ethylene glycol chains and alkyl chains by novel polymerization
Naono Watanabe, Ryuhei Manji, Kuga Imura, Shinobu Uemura
- 2Pb026 Preparation of Covalent Organic Frameworks Consisting of C3 symmetry monomers Equilibrium Reaction
Ming Cheng, Takashi Kono, Hiroki Kobayashi, Yuta Nishimoto, Shinobu Uemura

F. INDUSTRIAL POLYMERS AND TECHNOLOGY

- 2Pb028 Prediction of compression set of ethylene propylene diene rubber by a machine learning model
Hiroaki Ono, Shin Nishimura
- 2Pa029 Morphological and Higher-order Structural Analysis of Nanovoids Formed in Polyethylene by High-pressure Hydrogen Gas Exposure
Keiko OHYAMA, Fumitoshi KANEKO, Masahiro KASAI, Hiroaki ONO, Shin NISHIMURA
- 2Pb030 Effect of morphology on high-pressure hydrogen induced blister in amine cured Bis A type epoxy resins with poly(N-phenylmaleimide-alt-styrene) domains.
Tatsuru Nishikawa, Hiroaki Ono, Shin Nishimura
- 2Pa031 Reinforcement of bamboo by applying aqueous resin with dispersing cellulose nanofiber
Takeshi Onji, Sonomi Kawakita, Masayuki Nezu, Kazuhiro Kume, Hiroyuki Nozaki, Kazuaki Katagiri
- 2Pb032 Improvement of strength and elastic modulus for epoxy resin by a specific additive
Masanori Hirano, Koji Furukawa, Kentaro Sano
- 2Pa033 Pneumatic Control for Locomotion Performance of Auxetic-typed Armored Soft Cylinder
Shuntaro Kondo, Tomoya Yamashita, Hiroshi Endo
- 2Pb034 Fabrication of Dimensional-Controlled Soft Gripper Composed of Bellows-typed Multiple Arm
Yuki Honda, Eito Yokoo, Hiroshi Endo
- 2Pa035 Various Design of Auxetic Chiral Structure for Out-of-plane Deformation
Sho Kazuguchi, Hiroshi Endo
- 2Pb036 Ultra-smoothing of fluoropolymers by catalyst-referred etching
Hiroki Tojima, Kodai Takeda, Daisetsu Toh, Kazuto Yamauchi, Yasuhisa Sano, Kazuya Yamamura, Yuji Ohkubo
- 2Pa037 Preparation of Polysilsesquioxane-based CO₂ Separation Membrane with Thermally Degradative Succinic Anhydride and Monoalkylurea as the Separation Units
Tsubasa Yoshio, Joji Ohshita, Yohei Adachi
- 2Pb038 Using phenolic polymers to control the size and morphology of calcium carbonate particles
Yurie Nakanishi, Hirotaka Ejima
- 2Pa039 Preparation of Transparent and Hydrophilic Polysilsesquioxane Films with Hydroxyethylurea Units and Applications as Antifogging Materials
Zhixin Lin, Yohei Adachi, Joji Ohshita, Kohei Shiraishi
- 2Pb040 Development of near-infrared shielding agricultural polyethylene film containing CsWO
Kensuke Shibuya, Takumi Kudo, Moriya Kikuchi, Takeshi Tyonan, Atsushi Igari, Seigou Kawaguchi
- 2Pa041 Properties of composite consisting of carbon fiber coated by maleic anhydride modified PP as a seizing agent and PP.
Kousuke Torasawa, Tatsuhiro Takahashi
- 2Pb042 Development of easily peelable pressure-sensitive adhesive tape by DC voltage application
Hideki TACHI, Masami NAKAGAWA, Takahiro AOKI, Takashi TOMODA, Atsuyoshi HINATA
- 2Pa043 Durable superhydrophobic surface with a 3D printed lattice structure
Kengo Manabe, Yasuo Norikane
- 2Pb044 Surface Modification of Ceramic Substrates Using Atmospheric Pressure Plasma CVD and Characterization of Organic Thin Films
Kenichi Yamazaki, Hiroyuki Yasui, Hinako Suematsu, Motoaki Yamauchi, Akitoshi Okino
- 2Pa045 Microscopic Properties of Sliding Materials by Homology Analysis
Hinako Suematsu, Fumio Sawa, Kenichi Yamazaki, Yasutaka Nishida

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 2Pa047 Design and Functional Evaluation of Anti-swellable Adhesive Hydrogels for Cerebral Dural Closure
Hiyori Komatsu, Shiharu Watanabe, Shima Ito, Kazuhiro Nagasaka, Akihiro Nishiguchi, Tetsushi Taguchi

- 2Pb048 Research of the thermosensitive gels using polysaccharides
Koumei Harajiri
- 2Pa049 Chiroptical Property and Enantioselective Adsorption Ability of Supramolecular Gels Formed by Carbamoylated Riboflavins
Yuta Yamada, Ryo Kozako, Takahiro Nitta, Hiroki Iida
- 2Pb050 Synthesis and properties of crown-ether based rotaxane -cross-linked hydrogel
Reo Onda, Yuma Sasaki, Haruka Minato, Daisuke Suzuki, Kazuko Nakazono
- 2Pa051 Out-of-equilibrium 3D patterning of a light-responsive supramolecular-polymer composite hydrogel
Yuriki Ikuta, Keisuke Nakamura, Ryou Kubota, Itaru Hamachi
- 2Pb052 Effects of movable crosslinking for adhesion and recycling performance on adhesive sheet
Sho Kosaba, Takayuki Arai, Kenji Yamaoka, Ryohei Ikura, Yoshinori Takashima
- 2Pa053 Swelling and de-swelling behavior of temperature-responsive gels cross-linked by comb-shaped polymers
Taichi Nishi, Takuma Kureha
- 2Pb054 Anisotropic hydrogel with gel-gel interface dominating mechanical property
Tomohiro Takahashi, Koki Sano
- 2Pa055 Graphene oxide exhibiting thermoresponsive sol-gel transition by tuning the counteraction
Shoma Kondo, Tomoki Nishimura, Yuta Nishina, Koki Sano
- 2Pb056 π -Conjugated photoluminescent soft materials synthesized by using a highly-soluble coumarin monomer and their pH-responsibilities
Yuya Kaneko, Aohan Wang, Isao Yamaguchi
- 2Pa057 Synthesis and properties of π -conjugated polymers with organic dye skeleton in the main chain
Akane Tsuneyoshi, Aohan Wang, Isao Yamaguchi
- 2Pb058 luminescence behavior of comb-like polymers possessing side-chain of polyethyleneimine backbones with AIE characteristics
Keito Mori, Ren-hua Jin
- 2Pa059 Temperature/solvent-responsive Fluorescence Behavior of a N-Isopropylacrylamide Gel Containing Aggregation-Induced Emission Moieties
Ryoma Amanuma, Ayumi Kobayashi, Kohei Iritani, Takashi Yamashita
- 2Pb060 Liquid crystalline structures and aggregation states of the side chains of poly(substituted methylene)s bearing carbazole moieties at the side chain ends.
Masamichi Kiyoura, Naruki Kurokawa, Masatoshi Tokita
- 2Pa061 Design of Self-Oscillating Tissues by Hierarchical Assembly of Self-Oscillating Microgels
Zhouna Tang, Takafumi Enomoto, Takeshi Ueki, Ryota Tamate, Aya Mizutani Akimoto, Ryo Yoshida
- 2Pb062 Synthesis of hydrogen-bonded crosslinked polymers and control of cross-linking by various chemical stimuli
Keita Aoki, Kiyoshi Masuda, Haruka Minato, Daisuke Suzuki, Kazuko Nakazono
- 2Pa063 Formation and Nonlinear Current-Voltage Characteristics for Monolayer Networks of Poly(3-hexyl thiophene) and Gold Nanoparticles
Taikai MATSUDA, Yuya ISHIZAKI, Shusaku NAGANO
- 2Pb064 Association behavior of thermo-responsive double hydrophilic diblock copolymers
Misato Hayashi, Shigeru Yamago, Rintaro Takahashi, Shin-ichi Yusa
- 2Pa065 Preparation and Nonlinear Current-Voltage Characteristics of Doped Hydrophobic Conductive Polymer monolayer Networks
Naoki Hara, Yuya Ishizaki, Shusaku Nagano
- 2Pb066 Fabrication of Carbon Black Composite Elastomers and Application to Soft Actuator
Shuki Toyoshima, Rintaro Genma, Naoto Yamaguchi, Yuxin Jing, Hidenori Okuzaki
- 2Pa067 Porous Thin Film Formation from Silsesquioxane-Containing Liquid Crystalline Block Copolymers
Kotaro MORIMOTO, Yuya ISHIZAKI, Shusaku NAGANO
- 2Pb068 The development of chemical stimuli-responsive fluorenone-based supramolecular gels
Mao Suzuki, Atsushi Seki, Ken'ichi Aoki

- 2Pa069 Design of advanced proton conductive soft materials based on self-assembly of chromonic liquid-crystalline pi-conjugated molecules
Shion Raj, Takahiro Ichikawa
- 2Pb070 Preparation and characterization of poly(N-isopropylacrylamide) gels using a high-molecular-weight chemical cross-linker with three-dimensional network structure
Kenichiro Mizuguchi, Takahiko Yasui, Nobuo Murase, Yuichi Ohya
- 2Pa071 Synthesis and characterization of organic acid-based polymers toward all-built-in self-oscillating polymer systems
Bokyoung JEON, Takafumi ENOMOTO, Aya Mizutani AKIMOTO, Ryo YOSHIDA
- 2Pb072 The structural design of a core-shell type self-oscillating block copolymer containing a proton-supplying site by RAFT-mediated polymerization-induced self-assembly
Mitsuki Hashimoto, Takafumi Enomoto, Takeshi Ueki, Ryota Tamate, Aya Mizutani Akimoto, Ryo Yoshida
- 2Pa073 Reshapable and Stretchable Colloidal Crystal Elastomer Films Fabricated by Hot-Press and Shear
Sawa Matsuura, Naoto Iwata, Seiichi Furumi
- 2Pb074 Ion-Conductive Phosphate Liquid Crystals/Polymer Composite Actuators: Effects of Mesogens, Ions, and Electrodes
CHENGYANG LIU, MASAFUMI YOSHIO
- 2Pa075 Strain Sensing in Chiral-Nematic Liquid Crystal Polymer Particles
Maki Ogata, Ryota Morimoto, Kohsuke Matsumoto, Osamu Tsutsumi
- 2Pb076 3D printing of self-healing hydrogels based on naturally occurring DNA
Waka Yoshida, Arisa Fukatsu, Kenji Okada, Masahide Takahashi
- 2Pa077 Autonomous Volumetric Oscillation of Gels with Semi-interpenetrating Self-oscillating Polymer Network Structure
Haowei SUN, Takafumi Enomoto, Won Soek Lee, Aya Akimoto, Ryo Yoshida
- 2Pb078 Development of low-molecular-weight gelators containing coumarin moieties for photoinduced reinforcement
Momoka Okajima, Kazuhiro Yabuuchi, Masaya Moriyama

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 2Pa083 Development of Functional Polymer Modified Beads for Purification of Adeno-Associated Virus Serotype 9.
Toshihiko Kogure, Hideko Kanazawa, Kenjiro Hanaoka, Kenichi Nagase
- 2Pb084 Development of patterned thermoresponsive culture dishes for fabrication of anisotropic cell sheets
Hasumi Kuramochi, Hironobu Takahashi, David Grainger, Kenjiro Hanaoka, Kenichi Nagase
- 2Pa085 Thermoresponsive- hepatocytes recognizing block copolymer brushes for hepatocyte separation
Junnosuke Matsuda, Daimu Inanaga, Mitsuaki Goto, Toshihiro Akaike, Hideko Kanazawa, Kenjiro Hanaoka, Kenichi Nagase
- 2Pb086 Induction of apoptosis by polyaromatic compounds with self-assembling ability
Riku UMEMURA, Natsumi SHIMIZU, Kenta MORITA, Tatsuo MARUYAMA
- 2Pa087 Aggregation of small molecules inhibit DNase I
Shunsuke Habe, Natsumi Shimizu, Tomoko Moriwaki, Takashi Aoi, Mariko Ikeda, Kenta Morita, Tatsuo Maruyama
- 2Pb088 Material dependence of optical and frictional properties of moth-eye structure
Akari Koda, Kazuma Tsuchioka, Yuji Hirai, Masatsugu Shimomura, Yasutaka Matsuo
- 2Pa089 Barnacle Larvae Settlement behavior on substrates with different surface functional groups
Shota Asano, Takayuki Murosaki, Yasuyuki Nogata, Masatsugu Shimomura, Yuji Hirai
- 2Pb090 Analysis of Cryoprotective Effects of Amphiphilic Polymers Mimicking Antifreeze Proteins
Shuya Tanaka, Masanori Nagao, Yoshiko Miura, Hikaru Matsumoto
- 2Pa091 Construction of Plant-Animal Extracellular Matrix Chimera via Coassembly of Cellulose Oligomers and Water-soluble Polysaccharides

Takako Ida, Yuuki Hata, Toshiki Sawada, Takeshi Serizawa

- 2Pb092 Fabrication of biomembrane-coated nanoparticles with a core of functional inorganic particles
Shusuke Kuwada, Shinichi Sawada, Yoshihiro Sasaki, Kazunari Akiyoshi
- 2Pa093 Development of multiblock amphiphile for molecular transportation
Haruki Otake, Miki Mori, Kohei Sato, Kazushi Kinbara
- 2Pb094 Preparation and functional characterization of a Alaska pollock-derived gelatin-based hydrogel using catechol/boronic acid interaction
Kazuhiro Nagasaka, Hiyori Komatsu, Shima Ito, Debabrata PALAI, Akihiro Nishiguchi, Tetsushi Taguchi
- 2Pa095 Cicada-wing-inspired nanopillar hydrogels consisting of poly(vinyl alcohol) and poly(methacrylic acid) for capturing bacteria through their flexibility and wide range of motion
HARUKI UCHIDA, KAZUMA FUJIMOTO, YOHEI KOTSUCHIBASHI
- 2Pb096 Evaluation of wettability on PVDF/PMMA blend film treated by atmospheric pressure low-temperature plasma
Ayumu Takada, Masashi Yamamoto, Nanaho Fujii, Kentaro Tada, Tomokazu Shikama, Haruki Okamoto, Hideo Horibe
- 2Pa097 Preparation of self-healing microgel particles based on cytocompatible phospholipid polymer bearing phenylboronic acid groups
Kasumi Ariake, Yuta Yoshizaki, Tomohiro Konno
- 2Pb098 Formation of Hydroxyapatite on Oriented Collagen-Peptide Composite Films and Its Structural Analysis
Aika Hashizume, Shogo Matsubara, Masahiro Higuchi
- 2Pa099 Applicability of keratin film with channels for both hydrophilic and lipophilic substances as human nail plate
Yoshiyasu Nagakawa, Kazuhiko Tsuchiya, Mitsu Kanemoto, Yuki Ishikawa
- 2Pb100 Novel preparation method for Janus filters inspired by snake-skins and evaluation of their wettabilities
Yuki Ishikawa, Daisuke Ishii
- 2Pa101 Characterization of cuticle structure on biological hair surface through directly wetting property evaluation
Sora Shibata, Daisuke Ishii
- 2Pb102 Mechanisms of fluid drag reduction by the surface structure of *Plecoglossus altivelis*
Tomoki Tanaka, Daisuke Ishii
- 2Pa103 Photocontrol of triplex-based nanostructure composed of L-aTNA modified with 8-pyrenylvinyl adenine
Keito Hirano, Keiji Murayama, Hiroyuki Asanuma
- 2Pb104 Molecular dynamics study of damaged DNA labeled with fluorescent probes
Susumu Fujiwara, Takumi Timothy Hashi, Kotaro Masumoto, Tomoko Mizuguchi, Yoshiteru Yonetani, Naoya Shikazono, Ken Akamatu, Hiroaki Nakamura
- 2Pa105 Characterization of Hydration Water Bound to Ion-containing Polymers in Salt Solution.
Itsuki Watanabe, Raita Goseki, Motoyasu Kobayashi

Presentation Time

<c = 13:20~14:00>

<d = 14:00~14:40>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 2Pc001 Microphase Separation of Statistical Copolymers Bearing Cyano Groups and Hydrogen-Bonding Amide Groups: Correlation between Thermal Properties and Hierarchical Structure
Kenshiro Iguchi, Makoto Ouchi, Takaya Terashima
- 2Pd002 Microphase Separation of Acrylic Acid Salt-Based Random Copolymers: Nanostructure Formation and Control by Water Absorption
Yuki Horiike, Makoto Ouchi, Takaya Terashima

- 2Pc003 Self-assembly of Nanographenes with tris(phenylisoxazolyl)benzene derivatives
Haruka MORIGUCHI, Ryo SEKIYA, Takeharu HAINO
- 2Pd004 Precise synthesis and thermoresponsive behavior of vinyl ether block copolymers consisting of UCST-type and LCST-type thermoresponsive blocks
Nene Maruyama, Naoki Matsuo, Arihiro Kanazawa, Sadahito Aoshima
- 2Pc005 Development of polymer degradation system inspired by biopolymer-degradation by enzymes: precise synthesis of hydrophilic or hydrophobic block copolymers containing poly(lactide) block
Akihisa Numao, Arihiro Kanazawa, Sadahito Aoshima
- 2Pd006 Synthesis of pH- and thermo-responsive tyrosine-containing copolymers by RAFT polymerization and self-assembling/photo cross-linking
Aoi TAKENAKA, Ryo YONENUMA, Hideharu MORI
- 2Pc007 Synthesis and Characterization of Monodisperse Amphiphilic Oligomers Composed of Long-Chain Alkyl Group and Hydrophilic Segments by Living Polymerization and Preparative Purification
Toa NAKANE, Hironobu WATANABE, Mineto UCHIYAMA, Masami KAMIGAITO
- 2Pd008 Precise Polymerization of Styrene with Plasma
Kyoka Komaba, Kazuki Yanagida, Hiromasa Goto
- 2Pc009 Synthesis of block copolymers having sulfo groups and preparation of polymeric reverse micelles for pressure and temperature-sensitive paints
wataru miyaoi, makoto obata, yoshimi iijima, kazuyuki nakakita
- 2Pd010 Chromism induced by conformational changes of poly[3,5-bis(acetoxymethyl)-4-alkoxyphenylacetylene]s and gas permselectivity of their membrans
Takuya Saito, Masahiro Teraguchi, Toshiki Aoki, Takashi Kaneko
- 2Pc011 Synthesis and Property Evaluation of Pillar[6]arene Derivatives Containing Nitrogen Atoms in Bridging Moieties
Kazeto Nakaguchi, Shunsuke Ohtani, Kenichi Kato, Tomoki Ogoshi
- 2Pd012 Surface characterization of poly(perfluoroalkyl methacrylate)-*b*-poly(oligoethylene glycol methyl ether methacrylate)
Takumi Ozaki, Kumi Nakamura, Yuki Satou, Shoko Wakao, Kenji Sugiyama
- 2Pc013 Double stimuli-responsive water-soluble triblock terpolymers bearing with *N,N*-dimethylamino group and oxyethylene units
Hinata Takazawa, Kenji Sugiyama
- 2Pd014 Surface properties of poly[2-(perfluorobutyl)ethyl methacrylate]-block-poly(cyclohexyl methacrylate)
Keita Okuzawa, Naoki Shima, Kenji Sugiyama
- 2Pc015 Synthesis and biodegradability of poly(β -malic acid alkyl esters)
Kaito Sakamoto, Kenji Sugiyama
- 2Pd016 Synthesis and Structural Characterization of Polyphenylene Ether-Based Block Copolymers
Riku Takahashi, Kan Hatakeyama, Yuta Nabae, Teruaki Hayakawa
- 2Pc017 Modification of conjugated systems by coupling reactions to aromatic amide cyclic trimers and evaluation of optical properties
Taiga Shirai, Koji Takagi
- 2Pd018 Design and development of self-encapsulated conjugated polymers directed toward application as efficient solid-state emitters
Kyota Ohkura, Tsuneaki Sakurai, Masaki Shimizu
- 2Pc019 Effect of tacticity and length of strapped chains on luminescent properties of self-encapsulated poly(*p*-phenyleneethynylene)s
Yukino Egawa, Tsuneaki Sakurai, Masaki Shimizu
- 2Pd020 Synthesis and Optical Properties of π -Conjugated Polymers Containing Hypervalent Antimony
Kazuya Tanimura, Masayuki Gon, Kazuo Tanaka
- 2Pd022 Luminescence and Stimuli-responsive Properties of Conjugated Polymers Containing a Novel Cyclic Boronic Acid Framework in Their Main Chain
Shuhei Morimoto, Masayuki Gon, Kazuo Tanaka
- 2Pc023 Creation of Stimuli-Responsive Conjugated Polymers with Solid-State Emissive Hypervalent Compounds

S1. Novel Functions of Element-Block Polymer Materials Created by Synergistic Effect

- 2Pc025 Synthesis and Characterization of Polyhedral Oligomeric Silsesquioxane Polymers Cross-linked with Diols
Hiroki Nonaka, Kazuki Yamamoto, Takahiro Gunji
- 2Pd026 Preparation of polymer brushes with siloxane bonds in the main chain
Touji Furukawa, Yukikazu Takeoka, Takahiro Seki, Mitsuo Hara
- 2Pc027 Preparation of adhesives composed of catechol compounds and epoxy-functionalized compounds and their adhesive properties
Azumi Fukuyoshi, Takashi Aketa, Toshiyuki Ozai, Hideo Nakagawa, Yoshiro Kaneko

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 2Pc029 Solid-state Structure and Formation of Organized Film of Azacalixarene-Polyethylene Glycol Copolymers Containing s-Triazine Rings
Ryoma TERUI, Yuto OTSUKI, Shogo SUGITA, Atsuhiko FUJIMORI
- 2Pd030 Formation and its morphological control of mixed monolayers of sugar-based natural polymers and organo-modified nanoclays
Ryoma NAKADA, Shogo SUGITA, Atsuhiko FUJIMORI
- 2Pc031 Effects of PEG modification on the aggregation behaviors of alkanethiolate-protected Au clusters
Xiaoyu Hu, Yuki Saito, Katsuaki Konishi, Yukatsu Shichibu
- 2Pc033 Synthesis of rod-coil multiblock polyimides as precursors of mesoporous carbons
Yuqian Chen, Kan Hatakeyama, Yuta Nabae, Teruaki Hayakawa
- 2Pd034 Aggregation of Block Copolymers Composed of Sugar Binding and Zwitterionic Chains in Aqueous Milieu
Saya Maeda, Yuji Higaki
- 2Pc035 Development of non-spherical liquid crystal capsules for flexible liquid crystal displays
Atsuya Kato, Daisuke Aoki, Tatsuo Taniguchi, Takashi Karatsu
- 2Pd036 Inclusion of Vinyl Polymer Chains into Nanopores of Metal-Organic Frameworks
Haruaki Suzuki, Nobuhiko Hosono, Takashi Uemura
- 2Pc037 Investigation of chemically modified graphene oxide layers on membranes prepared by various wet processes for separation membrane
Yasuto Yoshii, Zhaojun Fan, Yoshiki Yoshida, Qi Feng, Shinobu Uemura
- 2Pd038 Anisotropic Self-assembly Constructed by Block Peptoid Comprising of the Hydrophobic Crystalline Segment
Renya Fukuda, Yota Okuno, Tomoki Nishimura, Akinori Kuzuya, Yasuhiko Iwasaki
- 2Pc039 Synthesis of hydrolyzable block copolymer particles and its morphology
Yusho Fujiwara, Hinano Morimoto, Toyoko Suzuki, Hideto Minami
- 2Pd040 Morphology control of polycarbonate particles by the solvent releasing method
Honoka Kondo, Kodai Yamano, Takeru Michiura, Toyoko Suzuki, Hideto Minami
- 2Pc041 Investigation of Self-assembly Behavior of Dibenzo-24-Crown 8-Ether with Alkyl Amide Group
Yuki KIMURA, Kenjiro ONIMURA, Kazuhiro YAMABUKI
- 2Pd042 Surfactant-induced self-organization and optical responses of gold clusters
Shogo Nakajima, Ayano Suda, Yuki Saito, Yukatsu Shichibu, Katsuaki Konishi
- 2Pc043 Preparation and investigation of nanosheets-composite PVDF crosslinked membranes for seawater desalination: Explore suitable composite conditions
Zhaojun Fan, Yasuto Yoshii, Shinobu Uemura, Qi Feng
- 2Pd044 Molecular dynamics simulation of protein adsorption phenomena on crystalline cellulose films
Kouichirou Ishibashi, Sawa Ishii, Hiromi Tsuyuki, Takeshi Serizawa, Go Watanabe
- 2Pc045 Study on cationic polymerization behavior of cycloaliphatic epoxy monomers for preparation of polymeric microspheres

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 2Pc047 Improvement of gemini-type amphiphilic zwitterion design for development of gyroid nanostructured proton conductive polymer membranes
Nanami Aoki, Takahiro Ichikawa
- 2Pd048 Supramolecular gel formation based on tartrates with ester groups
Karin Suzuki, Takuya Senda, Kazuhiro Yabuuchi
- 2Pc049 Evaluation of Ion Exchange Capacity of Cation Exchange Resin Encapsulated Hollow-type Spherical Bacterial Cellulose Gels for the Treatment of Hyperkalemia
Genki Takano, Toru Hoshi, Takao Aoyagi
- 2Pd050 Drug Release Behavior from Hollow-type Spherical Bacterial Cellulose gels Encapsulating Anionic pH-Responsive Polymer gels
Kyosuke Hori, Toru Hoshi, Takao Aoyagi
- 2Pc051 Preparation of hollow-type spherical bacterial cellulose gel encapsulating pH-responsive polymer gel for controlled release of anionic drug
Kyo Honda, Toru Hoshi, Takao Aoyagi
- 2Pd052 Design of functional materials using thermoresponsive ionic liquid with aggregation-induced emission property
Daisuke Uchida, Hironobu Iwasawa, Takahiro Ichikawa
- 2Pc053 Self-aggregation behavior and optical properties of chiral amino acid derivatives bearing a coumarin moiety
Junpei Mitsuzuka, Trakunoi Harada, Kazuhiro Yabuuchi, Masaya Moriyama
- 2Pd054 Formation and decomposition of photoresponsive oligomers induced by reversible photocycloaddition of coumarins
Yusuke Koba, Shuji Hamada, Kazuhiro Yabuuchi, Masaya Moriyama
- 2Pc055 Self-Healable Block Copolymers Having Fluoroalkyl Side Chains
Toi Shimizu, Shoichi Kutsumizu, Kei Hashimoto, Yohei Miwa
- 2Pd056 Design of Photo-responsive Microcapsules Using Molecular Complex Formation at O/W Emulsion Interface
Yuka Fujii, Akifumi Kawamura, Yoshinori Takashima, Takashi Miyata
- 2Pc057 Exploration of vinyl polymers with polymerization-induced emission property aided by machine learning
Rikuto Ooie, Fumitaka Ishiwari, Akinori Saeki
- 2Pd058 Photoalignment of non-photoreactive liquid crystalline polymer based on in situ formation of N-benzylideneaniline at the surface of the film
Ryuya Toku, Gento Nakajima, Mizuho Kondo, Nobuhiro Kawatsuki
- 2Pc059 Synthesis of Liquid Crystalline Supramolecular Block Copolymers Containing Pyridine Side Chains and Analysis of Thin Film Structures.
Yuki Machida, Yuya Isizaki, Shusaku Nagano
- 2Pd060 Photoinduced transitions between solid and liquid by thermally stable molecular photoswitches.
Naoki Kaneda, Keiichi Imato, Akira Ishii, Ichiro Imae, Yousuke Ooyama
- 2Pc061 Development of Liquid-Crystalline Zwitterion/Nafion Composite Electrolyte Membranes with Gyroid Nanostructure
Yuki Maehara, Takahiro Ichikawa
- 2Pd062 Direct exchange of photoaligned N-benzylideneaniline liquid crystalline polymer films to polarized fluorescent films based on in situ exchange of oriented mesogen
Subaru Shimizu, Mizuki Tanaka, Mizuho Kondo, Tomoyuki Sasaki, Moritsugu Sakamoto, Hiroshi Ono, Nobuhiro Kawatsuki
- 2Pc063 Thermo-responsive behavior of hydrogels showing upper critical solution temperature (UCST) due to electrostatic interaction
Tomoki Ando, Shin-ichi Yusa
- 2Pd064 Creation of non-equilibrium phase-separated gels by learning from biological adaptation
Yuki INOUE, Dong SHI, Takayuki NONOYAMA, GONG Jian Ping

- 2Pc065 Development of low-molecular-weight gelators with self-assembling moieties derived from oleic acid
Mao Morisaki, Kazuhiro Yabuuchi
- 2Pd066 Preparation and characterization of acrylic and methacrylic polymer gels with phosphobetaine structures and their application to optical tissue clearing
Nanako Dei, Akikazu Matsumoto, Chie Kojima
- 2Pc067 Photo-plasticization of polyurethane adding azobenzene derivatives
Takenori Ikegaya, Shogo Nobukawa, Yasuhiro Kohsaka, Katsuhiko Inomata
- 2Pd068 Design and Synthesis of Metallo-Supramolecular Polymer as a Stimuli-Responsive Materials for Multi-Approach Electrochromic Applications
Satya Ranjan Jena, Masayoshi Higuchi
- 2Pc069 Photothermal Actuation of Liquid Metal-Containing Elastomeric Film by Near-Infrared Irradiation
Hizuma Takahashi, Kodai Moribayashi, Hiroshi Endo
- 2Pd070 Design of 3D-Elastomeric Materials with Auxetic-typed Channel Structure
Yukihide Tashiro, Kazuma Morikawa, Hiroshi Endo
- 2Pc071 Development of self-organizing ionic liquids for creation of CO₂ separation membranes with gyroid nanostructure
Saori Yamaguchi, Soki Obara, Keiichi Noguchi, Toshiyo Kato, Takahiro Ichikawa
- 2Pd072 Synthesis and Properties of Urethane Elastomers with Aromatic Bishydroxyoxazolidone as a Chain Extender
Yuki Yoshinaga, Yoshiaki Yoshida
- 2Pc073 Degradation analysis of Electrochromic devices using a new method
Shifa Sarkar, Masayoshi Higuchi
- 2Pd074 Synthesis of functionalized polyether/poly(N-isopropylacrylamide) IPN Gel with multi-responsive functions
Ryoga TOYA, Tomoya ADACHI, Kiyoka SAKURI, Shigeki HABAUE
- 2Pc075 Hydrogel Reactor of Poly(N-isopropylacrylamide)/Polyethylene Glycol IPNs for Oxidative Coupling of 2-Naphthol
Takumi WATANABE, Minghao CHEN, Shigeki HABAUE
- 2Pd076 Polymerization behavior of anisotropic monomer under photoinduced molecular diffusion
Takuto Ishiyama, Hirona Nakamura, Miho Aizawa, Kyohei Hisano, Shoichi Kubo, Atsushi Shishido
- 2Pc077 Structural and Physical Properties of Natural Rubber with Hydrogen Bonds
Jun Sawada, Takahiro Mabuchi, Toshio Tada, Subhradeep Mandal, Amit Das, Gert Heinrich
- 2Pd078 Investigation of substituent effects on dioxazaborocane formation in water and characterization of the sol-gel transition behavior
Keiichiro Yaginuma, Kevin Barthelmes, Takuya Katashima, Akira Matsumoto
- 2Pc079 Design of Temperature-Responsive Gel Particles That Regulate Molecular Binding Ability by Conformational Change
Yuto Fujii, Akifumi Kawamura, Takashi Miyata

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 2Pc083 Development of polysaccharides/gelatin methacrylate hydrogel cell scaffold for knee joint regeneration
Kodai Onodera, Kazuki Yamauchi, Hiroki Miyajima, Kazutoshi Iijima
- 2Pd084 Prediction of properties of polysaccharide hydrogels using machine learning
Chika Inuma, Kazuki Yamauchi, Hiroki Miyajima, Kazutoshi Iijima
- 2Pc085 Development of organic-inorganic composite scaffolds for artificial bone marrow
Chisato Handa, Hiroki Miyajima, Hiroki Touji, Kaori Kojima, Osamu Mukai, Shouji Maruo, Kazutoshi Iijima
- 2Pd086 Enhanced Strength and Flexibility of Atelocollagen Threads by Slide-Ring Polymers
Riku Kubota, Ichiro Fujimoto
- 2Pc087 Temperature-responsive injectable polymer that can be specifically decomposed by photo-irradiation
Itsuki Kasatani, Nobuo Murase, Yuichi Ohya

- 2Pd088 Construction of branched DNA-gold nanoparticle monoconjugates for cell-scaffold applications
Rina Yazawa, Yoshitsugu Akiyama, Masao Kamimura
- 2Pc089 Mitophagy-inducing nano-carrier for the production of designer stem cells
Masahiro Yoshioka, Yusuke Fujita, Kiyoshi Sato, Hiroyoshi Kawakami
- 2Pd090 Improvement of cell affinity to polylactic acid (PLA) structure by photo-oxidative modification using chlorine dioxide
Nana Otsuka, Haruyasu Asahara, Akihiro Nishiguchi, Tetsushi Taguchi, Tsuyoshi Inoue
- 2Pc091 Photo-control of cell adhesion property using the coumarin-modified shellac derivatives
Yurino Sunakawa, Mai Kondo, Toshihisa Mizuno
- 2Pd092 Design of scaffold materials for tissue engineering using self-assembling beta-hairpin peptides
Natsuki Yamamoto, Shota Yamauchi, Yuya Yamada, Yoshiaki Hirano
- 2Pc093 Preparation of stem cell aggregates using cell aggregates inducing peptides
Masaki Iwamoto, Rino Watanabe, Ikumi Amimoto, Hiroaki Kadobayashi, Yoshiaki Hirano
- 2Pc095 Effect of Degree of Substitution on Functional Properties of Phosphorylated Pullulan
Akinobu TAKAHASHI, Takumi OKIHARA, Mariko NAKAMURA
- 2Pd096 Preparation of drug-containing films of phosphorylated guar gum and their sustained release behavior
Shuto KATAOKA, Takumi OKIHARA, Mariko NAKAMURA
- 2Pc097 Cellulose solubility and toxicity of aqueous pyrrolidinium hydroxide (II) -Effect of chemical structure of pyrrolidinium salt on toxicity-
Miki Saitoh, Tamao Saito, Rinako Suzuki, Yuko Takeoka, Masahiro Rikukawa, Masahiro Fujita
- 2Pd098 Effects of Template Molecules and Solution pH on the Permeability of Molecular-Imprinted Polysaccharide Composite Films
Tamao Yamamoto, Takuya Sagawa, Mineo Hashizume
- 2Pc099 Preparation of alginic acid/ poly(2-oxazoline) hybrid gels and preservation of cells at room temperature
Makoto Tsurube, Akinori Takasu
- 2Pd100 Preparation of chitosan/starch blend beads and evaluation as pH-responsive protein carriers.
Takumi Morita, Hikaru Oba, Yuriko Isiba, Shokyoku Kanaoka, Satoshi Tanimoto
- 2Pd102 Application of cross-linked chitosan aerogel for intestinal anastomosis
Shuhei Kitahara, Shinji Takeoka
- 2Pc103 Immobilization of Gb3 glycopolymers mimicking divalent glycopolymers on gold nanoparticles
Koushirou Tanaka, Tomohiro Fukuda
- 2Pd104 Development of verotoxin recognition materials using fluorescence-labeled Gb3-mimetic glycopolymers
Runa Nakamoto, Tomohiro Fukuda
- 2Pc105 One-pot Preparation of Glycopolymer Micelle for Drug Delivery System
Tomohiro Fukuda, Yukari Iida

Presentation Time

<e = 15:20~16:00>

<f = 16:00~16:40>

S2. Frontiers in Polymer Synthesis Directed Towards High-Performance and Functional Polymer Materials

- 2Pe001 Synthesis of UV-curable Polysulfides with pendant Methacryloyl Group and their Refractive Index Properties
Koichi Hirose, Ryota Tsutui, Hiroto Kudo
- 2Pf002 Living Anionic Polymerization of 2-Vinylpyridine Based on Reversible Activation of C-H Bonds as Dormant Species

Koki SAKAI, Hironobu WATANABE, Mineto UCHIYAMA, Masami KAMIGAITO

- 2Pe003 Precise Synthesis of Alternating Graft Copolymers and Alternating Sequence-Dependent Self Assembly
Aoto Ishikawa, Makoto Ouchi
- 2Pf004 Radical (Co)polymerization of Diborylalkenes and Transformation of Boron Unit toward Developing Novel Functions
Koki Hirano, Tsuyoshi Nishikawa, Makoto Ouchi
- 2Pe005 Synthesis and characterization of biobased polymers with long-chain fatty acids and oligopeptides as component unit
Gaku Miyamoto, Mohamed Mehawed Abdellatif, Kotohiro Nomura
- 2Pf006 Self-assembly from double thermo-responsive polymers and its templating function for preparation of chiral silica nanoparticles
Akira Wakaiko, Ren-Hua Jin

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 2Pe009 Living anionic polymerization of vinyl monomers having thiophene ring
Yuki Kurishiba, Raita Goseki, Chihiro Homma, Takashi Ishizone
- 2Pf010 Degradation of poly(α -methylstyrene) having photocleavable groups at chain ends
Yuki Morimoto, Yuki Kurishiba, Raita Goseki, Chihiro Homma, Takashi Ishizone
- 2Pe011 Synthesis of thermoplastic elastomers using 4-(1-adamantyl)styrene
Subaru Matsumura, Yuki Kurishiba, Raita Goseki, Chihiro Homma, Takashi Ishizone
- 2Pf012 Synthesis of chain-end functionalized polymers with light-emittable groups in both solid and liquid states
Kazuki Horibe, Raita Goseki, Chihiro Homma, Takashi Ishizone
- 2Pe013 Anionic polymerization using benzyltrimethylsilanes and fluoride ions as initiator systems
Mei Nakamoto, Daichi Fuyuki, Kaoru Adachi
- 2Pf014 Lewis pair polymerization of isocyanates with N-heterocyclic carbene.
Ryota Uchida, Akinori Takasu, Masahiro Higuchi
- 2Pe015 Anionic and coordination polymerization of (Z)-1-Phenyl[3]dendralene
Haruto Tanaka, Tomoyuki Toda, Katsuhiko Takenaka
- 2Pf016 Anionic Polymerization Behavior of Epoxides in the Presence of Maleimides
Hinako Kobayashi, Atsushi Sudo
- 2Pe017 Surface Initiated Anionic Polymerization of 2-Vinylpyridine-type Sulfobetaine Monomer.
Koki Hamashima, Raita Goseki, Motoyasu Kobayashi
- 2Pf018 Anionic Polymerization of Methyl Methacrylate and Chain-end Modification of the Obtained Polymers by Selective Transesterification with Dilithium Tetra-tert-butylzincate
Masayoshi Watanabe, Tomohiro Hirano, Koichi Ute, Miyuki Oshimura
- 2Pe019 Ring-opening (co) polymerizations of cyclic esters and NCAs using quaternary ammonium carboxylates as initiators and analysis of their reaction mechanism
Ken Watanabe, Miyuki Oshimura, Tomohiro Hirano, Koichi Ute
- 2Pe021 Ring-opening Alternating Copolymerization of Cyclic Anhydride and Glycidyl Amine for Synthesizing Amino-Functionalized Polyesters
Ryota Suzuki, Takuya Yamamoto, Kenji Tajima, Feng Li, Takuya Isono, Toshifumi Satoh
- 2Pf022 Synthesis of aliphatic copolycarbonates containing ethylene carbonate in the main chain.
Yu Satake, Osamu Haba, Hisanari Yoneda, Tatsuro Toda
- 2Pe023 Synthesis of Novel Functional Polymers from Plant-Based 1-Phenyl-1,3-Butadiene Derivatives
Yasunobu Isobe, Shiho Tanizaki, Tomohiro Kubo, Kotaro Satoh
- 2Pf024 Cationic Polymerization of Caffeic Acid-Derived Vinyl Catechol and its Derivatives
Risa Fujita, Shiho Tanizaki, Tomohiro Kubo, Kotaro Satoh
- 2Pe025 Cationic and Radical Polymerization of Vinyl Monomers using Monosaccharides with Chain Transfer Agent Structures
Yukihito Fujiwara, Koji Takagi

- 2Pf026 Cationic Alternating Copolymerization of Styrenes and Aromatic Aldehydes: Copolymerization of Indene and Synthesis of Styrenic Polymers Having Precisely Located Cleavable Units
Mikuri Saito, Tomoki Nara, Arihiro Kanazawa, Sadahito Aoshima
- 2Pe027 Development of living cationic ring-opening polymerization of oxiranes: Design of initiating systems consisting of alkyl halide/AgSbF₆/cyclic ether
Hibiki Yamada, Arihiro Kanazawa, Sadahito Aoshima
- 2Pf028 Cationic Copolymerization of Furfural-Derived 5-Alkoxy-2(5*H*)-furanones Bearing Cyclic Hemiacetal Ester Structure
Naoki Higashibata, Arihiro Kanazawa, Sadahito Aoshima
- 2Pe029 Polymer Synthesis using Sugar-Derived Monomers: Cationic Copolymerization with Cyclic Acetals
Aya Katto, Arihiro Kanazawa, Sadahito Aoshima
- 2Pf030 Cationic Alternating Copolymerization of Vinyl Acetate and 3-Alkoxyphthalides : Copolymerization of Cationically Nonhomopolymerizable Monomers
Kyonosuke Kamigaki, Arihiro Kanazawa, Sadahito Aoshima
- 2Pe031 Acceleration of cationic polymerization of low reactive styrenes: Metal-Free polymerization using diaryliodonium salts as organic Lewis acid catalysts
Yutaka Yokawa, Yuji Mishima, Arihiro Kanazawa, Sadahito Aoshima

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 2Pe033 Syntheses and properties of polyurethanes with cage silsesquioxanes in the main and side chains.
Honoka Yonezawa, Yuta Hirosawa, Hiroaki Imoto, Kensuke Naka
- 2Pf034 Analysis of the Degradation State of Epoxy Resin with the Growth of Electrical Tree
Takahiro Mabuchi
- 2Pe035 Mechanical Property and Skeletal Conformation in the Crystalline Regions of Reduced Polyketone
Naoto Takahashi, Takuya Matsumoto, Takashi Nishino
- 2Pf036 Energy absorption behavior of graded rubber
Quoc Viet Do, Masayuki Yamaguchi, Kensuke Washizu, Takahiro Mabuchi, Toshio Tada
- 2Pe037 Analysis of polymer chain deformation behavior in bending polymer films by surface strain measurement and photoelastic method
Yuki Otani, Jiayi Yu, Kyohei Hisano, Atsushi Shishido
- 2Pf038 Evaluation of dynamic heat capacity for polyisobutylene in the melting region by TMDSC
Ryoto Suzuki, Itaru Tsukushi
- 2Pe039 Birefringence Imaging with a Polarization Camera
Shuji Kamegaki, Ryota Morioka, Meguya Ryu, Juodkasis Saulius, Junko Morikawa
- 2Pf040 Anisotropic thermal diffusivity measurements and morphology of engineering plastics
Ryota Morioka, Shuji Kamegaki, Kai Sakakibara, Gen Aoki, Yusuke Hamano, Junko Morikawa
- 2Pe041 On the Relationship Between Thermal and Dynamic Properties of Amorphous Polystyrene with Different Molecular Weights
Marika Yokota, Itaru Tsukushi
- 2Pf042 Temperature dependence of the change in molecular chain structure of polymethyl methacrylate thin film during biaxial tensile deformation
Genki Matsuura, Kakeru Obayashi, Aya Fujimoto, Ken Kojio
- 2Pe043 Structural Analysis of Polymer Gels and Electrolyte Membranes Using Small- and Wide-angle Neutron Scattering (BL15 TAIKAN) at J-PARC
Shin-ichi Takata, Hiroi Kousuke, Hiroshi Arima

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 2Pe047 Preparation of highly stretchable Organogels Based on Low Hydrophobic Monomer
Hiroaki Yoshida, Lorvanhsith LUANGHANE, Kisun CHUNTI, Hiroharu Ajiro

- 2Pf048 Development of gels using ferroelectric liquid crystals with huge relative permittivity and their applications to actuators
Sota Sasaki, Hiroyuki Matsukizono, Yasushi Okumura, Hirotsugu Kikuchi
- 2Pe049 Water-soluble soft nylons [I] : Clarification of LCST-type thermo-responsiveness
Akari Sugano, Keitaro Matsuoka, Kazuki Sada
- 2Pf050 Water-soluble soft nylons [II] : Clarification of UCST-type thermo-responsiveness
Keitaro Matsuoka, Akari Sugano, Kazuki Sada
- 2Pe051 Water-soluble soft nylons [III] : Copolymerization with diols toward degradable polymers
Masanori Miyoshi, Akari Sugano, Keitaro Matsuoka, Kazuki Sada
- 2Pf052 Electro-birefringence effect of liquid crystal/ polymer composites using highly polar liquid crystals
Masaki Yamaguchi, Yasushi Okumura, Hirotsugu Kikuchi
- 2Pe053 Supramolecular mechano responsive hydrogels driven by reversible host guest interaction
Shafinee Yarnina Shafri, May Myat Noe, Akihide Sugawara, Yoshinori Takashima, Hiroshi Uyama
- 2Pf054 Development and characterization of quinhydrone-based complexes having flexible side chains
Kota Fukuda, Shiyu Tamaki, Masahiro Funahashi, Kyosuke Isoda
- 2Pe055 Fabrication of functional glass coated with photo-induced electron transfer-based fluorescent sensor and its fluorescent sensing properties to water
Kazuki Tao, Takuma Humoto, Keiichi Imato, Yousuke Ooyama
- 2Pf056 Supramolecular gels that exhibit a reversible melting/gelation behavior by turning UV light on/off
Yukhe Ling, Hidetsugu Kitakado, Reo Masuda, Shohei Saito
- 2Pe057 Development of red emitting Cu(II)-arylamide mechanophores and their application to mechanoresponsive polymers
Tatiana Gridneva, Ayumu Karimata, Richa Bansal, Robert R. Fayzullin, Serhii Vasylevskiy, Andrew Bruhacs, Julia R. Khusnutdinova
- 2Pf058 Free energy calculations for supramolecular mechanophores with mechanoresponsive luminescence using molecular dynamics simulations
Kaito Nitta, Tatsuya Muramatsu, Keiko Hiratsuka, Yoshimitsu Sagara, Go Watanabe
- 2Pe059 Synthesis and properties of thermally self-healing slide-ring hydrogels by Diels-Alder reaction
Tsuyoshi Takigawa, Masatoshi Kidowaki
- 2Pf060 Design Strategies for Stretchable and Mechanically Robust Ion Gels
Aya Saruwatari, Yuji Kamiyama, Ryota Tamate, Takeshi Ueki
- 2Pe061 Synthesis and Photo-Plasticization of Polyurethanes Containing Azobenzene Moieties: The Effects of Azobenzene Position on Photo-Plasticization
Marin Takeuchi, Takenori Ikegaya, Ryo Kawatani, Shogo Nobukawa, Yasuhiro Kohsaka
- 2Pf062 Effects of molecular weight and main chain structure on photoinduced phase separation in binary liquid crystalline polymer blends
Yuno YOKOTA, Takumi KOKUBO, Yuya ISHIZAKI, Mitsuo HARA, Takahiro SEKI, Syusaku NAGANO
- 2Pe063 Synthesis of Poly(rotaxanes-co-stilbene) by Using Click Chemistry and Their Photo-responsive Behaviors
Yuuri TAWARA, Kenjiro ONIMURA, Kazuhiro YAMABUKI
- 2Pf064 Preparation of polymer electrolyte membrane with nanomatrix channel
Yoshimasa Yamamoto, Hiroyuki Ishii, Seiichi Kawahara
- 2Pe065 Design and Synthesis of Novel Organometallic Polymer for Electrochromic Smart Window Application
Susmita ROY, Masayoshi HIGUCHI
- 2Pf066 Influence of Hydrophobic Groups for Layer Orders in Ionic Liquid Crystalline Systems with Branched Polyions as a Counterion
Shogo Nakagawa, Masanori Nata, Seiji Ujiie
- 2Pe067 Complete enumeration of polymer structural isomers I: Search for temperature-responsive polymers in C₆H₁₁NO group with an amide group

- Gikyo Usuki, Kohei Hasebe, Mio Shitamichi, Masato Kobayashi, Takuro Tsutsumi, Keitaro Matsuoka, Tetsuya Taketsugu, Kazuki Sada
- 2Pf068 Complete enumeration of polymer structural isomers II: Search for thermo-responsive polymers in the isomers of poly(vinyl phenol)
Natsuki Inaba, Keitaro Matsuoka, Takuro Tsutsumi, Masato Kobayashi, Tetsuya Taketsugu, Kazuki Sada
- 2Pe069 Complete enumeration of polymer structural isomers III: Development of versatile complete-enumeration method
Takuro Tsutsumi, Gikyo Usuki, Mio Shitamichi, Kohei Hasebe, Masato Kobayashi, Keitaro Matsuoka, Tetsuya Taketsugu, Kazuki Sada
- 2Pf070 Complete enumeration of polymer structural isomers IV : Development of malonic ester synthesis type polymerization method aimed at search for thermo-responsive polymers
Shunsuke Tsuchiya, Keitaro Matsuoka, Takuro Tsutsumi, Kazuki Sada
- 2Pe071 Development of stimuli-responsive photoluminescent liquid based on pyromellitic diimide framework
Kyosuke Isoda, Takumi Ohmura, Hidenori Aihara
- 2Pf072 Stimulus response of the structural color of colloidal crystal composite films
Shota Ochi, Katsuhiko Inomata, Shogo Nobukawa, Reimi Emoto
- 2Pe073 Orientation and Thermal Diffusivity in Thin Films of Side-Chain Polymer Liquid Crystals with Smectic Phase
Kanna KOBAYASHI, Yuya ISHIZAKI, Takahiro SEKI, Shusaku NAGANO
- 2Pf074 Creation of vesicle-type artificial tissues responding to multiple external stimuli
Tomoya Kojima, Yutaro Noguchi, Koichi Terasaka, Kouichi Asakura, Taisuke Banno
- 2Pe075 Design of Temperature-responsive Polymers Undergoing Liquid-liquid Phase Separation and Formation of Coacervate Droplets
Ryo Mashiba, Akifumi Kawamura, Takashi Miyata
- 2Pf076 Evaluation of electrical properties of double-network gels incorporating conductive polymers
Yasuhiro Iyobe, Mizuki Kondo, Takashi Kuwahara
- 2Pe077 Effect of Substitution Position on Supramolecular Gel-Forming Ability and Luminescence Properties of Donor-Acceptor-Type Fluorenone Derivatives
Syota Yamada, Atsushi Seki, Ken'ichi Aoki
- 2Pf078 Dedoping and Nonlinear Electrical Characteristics of Lyotropic Liquid Crystalline Self-Doped Polythiophene Thin Films
Motoaki Onishi, Yuya Ishizaki, Hirokazu Yano, Hidenori Okuzaki, Shusaku Nagano
- 2Pe079 Photo-Induced Change in Mechanical Properties of Crosslinked Polybutadiene with Azobenzene moieties
Remi Kato, Yumiko Naka, Takeo Sasaki, Khoa V. Le

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 2Pe083 Construction of the protein capsules from the VHH antibody-fused amphiphilic protein with different length linkers and evaluation of their cytosolic delivery into cancer cells
Kousuke Takahashi, Taiki Nishiyama, Toshihisa Mizuno
- 2Pf084 Evaluation of capsule-forming capabilities of the GP-ZIP mutants
Honami Yamazaki, Toshihisa Mizuno
- 2Pf086 Construction of extracellular vesicle integration system by using reactive polymers
Saki Tarao, Yoshihiro Sasaki, Kazunari Akiyoshi
- 2Pe087 Development of Polysaccharide Nanogel-Based Photoacoustic Imaging Probes for M2 macrophages.
Risako Miura, Akio Tsutsumi, Yu Kimura, Kazunari Akiyoshi, Teruyuki Kondo
- 2Pf088 Preparation and application of Poly(beta-hydroxybutyrate)-based nanoparticles in the management of acute kidney injury
Duc Tri Bui, Yukio Nagasaki
- 2Pe089 Design and Evaluation of Butyric acid-based Self-Assembling Nanoparticles against Gastrointestinal Inflammation
Yurika Hayasaki, Babita Shashni, Yukio Nagasaki

- 2Pf090 Synthesis and Anticancer Activity of Polymer-Conjugated Asparaginase
Takuma Shoji, Taiga Yamada, Teruyuki Komatsu
- 2Pe091 Synthesis of Photoresponsive Polymers with Carbohydrate Binding Sites and Their Applications for Killing Cancer Cells
Yoshitaka Hattori, Akifumi Kawamura, Takashi Miyata
- 2Pf092 Development of injectable gel formulations containing nano-particles for sustained release of low-molecular-weight drugs
Ayaka Kawakami, Yuta Yoshizaki, Nobuo Murase, Yuichi Ohya
- 2Pe093 Synthesis and characterization of glucose-modified graft copolymers for controlled biodistribution
Yukine Ishibashi, Mitsuru Naito, Masaru Cho, Mao Hori, Kanjiro Miyata
- 2Pf094 Cytosolic delivery of antigenic peptide by using intracellular environment-responsive peptide nanofibers
Masaya Yamamoto, Kazuya Matsuo, Tomonori Waku, Akio Kobori
- 2Pf096 Cell membrane permeability of sulfobetaine polymers for cancer hypothermia therapy
Nobuyuki Morimoto, Sayaka Toita
- 2Pe097 Analysis of small molecule encapsulation behavior in polymeric micelles using aggregation induced emission
Taiki Kibe, Makoto Obata
- 2Pf098 Poly(2-ethyl-2-oxazoline) immobilized magnetic nanoparticles for manipulation of mechanosensitive TRPV2 channels
Masakazu Kubota, Ryota Kanke, Keito Nakajima, Masao Kamimura
- 2Pe099 Preparation of anti-inflammatory coatings using temperature-responsive nanogates
Kensei Nagao, Yuko Sakurai, Shogo Matsubara, masahiro Higuchi
- 2Pf100 Development of drug delivery systems for boron neutron capture therapy using PHPMA
Daiki Tokura, kakeru Konarita, Minoru Suzuki, Yuto Honda, Yutaka Miura, Nobuhiro Nishiyama, Takahiro Nomoto
- 2Pe101 Preparation and Immunological Properties of Novel Nano/Microsphere Materials Containing a Synthetic Peptide Antigen
Oku Hiroyuki, Shunto Suzuki, Shun-suke Kobayashi, Hikaru Yamada, Takumi Yamamoto
- 2Pf102 Preparation of drug-encapsulated microspheres using biodegradable PLGA and evaluation of drug inclusion rate.
An Sakamoto, Toru Hoshi, Takao Aoyagi
- 2Pe103 Preparation of Biomolecule-Encapsulated PLGA Microspheres by Ion Complex Formation
Masakazu Oguchi, Toru Hoshi, Takao Aoyagi
- 2Pf104 Preparation of Thermoresponsive Polymer Nanofibers with Uniformly Dispersed Magnetic Nanoparticles
Mai Tanaka, Toru Hoshi, Takao Aoyagi
- 2Pe105 Preparation of Hydrophilic-Hydrophobic Polymeric Micelles Using Functionalized Polycaprolactone and Evaluation of Drug Release
Yuya Saito, Takumi Yoshida, Toru Hoshi, Takao Aoyagi

Thu. Sep 28

Presentation Time

<a = 10:20~11:00>

<b = 11:00~11:40>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 3Pa001 Suzuki-Miyaura catalyst-transfer condensation polymerization of thiophene having hydrophilic side chain.
Youta FUKUDA, Yoshihiro OHTA, Kazuya EBARA, Tsutomu YOKOZAWA
- 3Pb002 End-functionalization of polycarbonate by means of ester-carbonate exchange reaction
Nao KOBAYASHI, Takayoshi KATOH, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 3Pa003 Optimization of Suzuki-Miyaura Catalyst-Transfer Condensation Polymerization by Using AB-Type Monomer with Boronic Acid "Epin" ester

Yota KAWABATA, Yoshihiro OHTA, Tsutomu YOKOZAWA

- 3Pb004 Catalyst-transfer condensation polymerization of Grignard type thienylene-phenylene dibromo AB₂ monomer bearing a hydrophilic side chain
Junkang FENG, Arisa YAMAMOTO, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 3Pa005 Suzuki-Miyaura Catalyst-Transfer Chain Condensation Polymerization of Phenylene AB Monomer with Ester Side Chains
Reo NITTO, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 3Pb006 Intramolecular transfer of Pd catalyst on dibromo compounds consisting of three phenylenes connected with two functional groups and unstoichiometric polycondensation
Daiki TAKAMATSU, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 3Pa007 Synthesis of aromatic polyesters using diphenolic acids bearing amide group
Sorato Omura, Yasuteru Mawatari
- 3Pb008 Light and pH Responsive Phenolic Polymers Including Coumarin Derivatives
Takahiro Kakuta, Takuma Kitamura, Tada-aki Yamagishi
- 3Pa009 Synthesis of poly(acetyl ketone)s by Sonogashira coupling reaction of 1,4-diiodobenzene and 1,7-octadiyne with formic acid as CO source
Masaru Yoneyama, Shun Koizumi, Takeshi Yamanobe
- 3Pb010 Polycondensation of (-)-Levogluconone connected with 1,4-butanedithiol and dihydrazide
Shogo Yashiro, Atsushi Tahara, Toshio Hokajo, Takayuki Doi
- 3Pa011 Synthesis of Fluorine-containing Polyimides Using Octafluorocyclopentene
Katsuki Hagiwara, Kaduki Shitsuka, Yuka Masaki, Masaru Kondo, Tomohiro Agou, Hiroki Fukumoto
- 3Pb012 Lipase-catalyzed synthesis of high-molecular-weight hydrophilic polyester bearing amino groups in side chains
Yuva Oyama, Naruki Kurokawa, Atsushi Hotta
- 3Pa013 Design and Synthesis of Deprotection-Induced Degradable Polyesters
Yoji TANAKA, Toa NAKANE, Hironobu WATANABE, Mineto UCHIYAMA, Ravi Teja Ananthu, Tomohiro KUBO, Kotaro SATOH, Masami KAMIGAITO
- 3Pb014 Synthesis of polyarginine by bulk polymerization using immobilized trypsin
Zhiwei Liu, Kayo Terada, Alexandros Lamprou, Kousuke Tsuchiya, Keiji Numata
- 3Pa015 Synthesis of Perfluoroalkylene-Containing Polyimides with Low Dielectric Loss Tangents
Ryuhei Niinuma, Tadashi Tsukamoto, Yuji Shibasaki, Yoshiyuki Oishi
- 3Pb016 Preparation of functional polymer films using silicon-based polymers with hydrophilic groups
Haruki Chiba, Yuto Sakuma, Tsukasa Ichikawa, Nobukatsu Nemoto
- 3Pa017 Crystallization-Induced Mechanochromism of Crystalline Polymers with Mechanochromophore at the Center of Polymer Chains
Ko Onuma, Riho Shibata, Takuma Watabe, Akira Takahashi, Hideyuki Otsuka
- 3Pb018 Design and Synthesis of α -Substituted Diarylacetic Acid Derivatives for Detecting Mechanoradicals
Yuto Uchida, Takumi Yamamoto, Hajime Sugita, Akira Takahashi, Hideyuki Otsuka
- 3Pa019 Development of polymers containing maleimide-anthracene linkage with improved thermal responsivity
Tatsuki Sato, Akira Takahashi, Hideyuki Otsuka
- 3Pb020 Development and Evaluation of Epoxy Adhesives with Dynamic Hindered Disulfide Linkages
Fuga Sawakawa, Akira Takahashi, Hideyuki Otsuka
- 3Pa021 Visualization of polymer chain scission in elastomers using chain-transfer-type fluorescent molecular probes
Takumi Yamamoto, Akira Takahashi, Hideyuki Otsuka
- 3Pb022 Development of 1,1-Diarylethylene Molecular Probes for Detecting Polymeric Mechanoradicals
Akira Kodaka, Yuto Uchiada, Takumi Yamamoto, Hajime Sugita, Akira Takahashi, Hideyuki Otsuka
- 3Pa023 Degradation of Aromatic Compounds by Oxygen Microbubbles Water (2)
Masaki Mizutani, Hideo Horibe

- 3Pb024 Decomposition of water-soluble organic matter using microbubbles
Tatsuya Yamamoto, Masaki Mizutani, Hideo Horibe
- 3Pa025 Modification of Poly(vinyl chloride) by Asymmetric Carbonation in Supercritical Carbon Dioxide
Neo Fujibayashi, Takao Aoyagi, Toru Hoshi
- 3Pb026 Synthesis of Photoresponsive Hydrogels Prepared from Four-functional Azobenzene and Bis(NHS)PEG
Mizuki Morita, Toshiyuki Watanabe, Kenro Totani
- 3Pa027 Stepwise post-polymerization of polymer side chain through click reaction and direct arylation.
Yuki Kitagawa, Shotaro Hayashi
- 3Pb028 Main-chain scission of polyesters containing allyl-substituted methacrylate skeletons
Kinari Tsurumi, Takumi Noda, Yasuhiro Kohsaka
- 3Pa029 Synthesis and Characterization of Amphiphilic Block Copolymers with FRET Dye via Post-Polymerization Modification
Taro Miyazawa, Makoto Obata
- 3Pb030 Orientation control of polydiacetylenes in the side chain type liquid-crystalline polymer thin films
Sadayuki Asaoka, Satoru Tamaki, Seiya Yokogi, Shinichi Sakurai
- 3Pa031 Preparation of Phenolic Polymers Containing Cross-Linked Structures by Metal-Ligand Interaction
Takuma Tsuchida, Takahiro Kakuta, Tada-aki Yamagisi
- 3Pb032 Kinetics and mechanisms on the thermal degradation of carbon fiber reinforced PEEK
Shuto Yamada, Kotaro Tanaka, Masahiro Tsuchiya, Nobuyoshi Koga

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 3Pb034 Evaluation of compression behavior of two-dimensional colloidal crystals composed of microgels formed at the air/water interface
Takahisa Kawamoto, Kohei Yanagi, Yuichiro Nishizawa, Haruka Minato, Daisuke Suzuki
- 3Pa035 Dynamics in supported polymeric thin films predicted by the dynamically correlated network model.
Tatsuki Nakane, Takashi Sasaki
- 3Pb036 Water Structure in Polymer Brush Layer and on Hydrophilic Surface Examined by ATR-near-IR Spectroscopy
Yuri Kishimoto, Shigehiro Kagaya, Kohji Ohno, Makoto Gemmei-Ide
- 3Pa037 Theoretical elucidation of chemical structural changes of dental adhesives on metal prosthetic surfaces
Yosuke Sumiya, Kazunari Yoshizawa
- 3Pb038 Lower Surface Free Energy by Introduction of Branched Alkyl Side Chains to Polythiophenes
Taichi Takasuga, Aika Kuwayama, Takuya Matsumoto, Atsunori Mori, Takashi Nishino
- 3Pa039 Nanomechanical characterization of cross-linked polysiloxane thin films using atomic force microscopy
Akihiro Yamashita, Masahiko Kawata, Masashi Kunitake
- 3Pb040 Reactivity of hydrogen radicals and polymer blend thin films
Haruki Okamoto, Hideo Horibe
- 3Pa041 Effect of Seawater Immersion on Surface Nanostructure of Polycaprolactone Thin Films
Hiroto Osakaki, Keito Shimakawa, Ryu Miyajima, Makiko Takigawa, Hiroyasu Masunaga, An Yingjun, Atsushi Takahara, Sono Sasaki
- 3Pb042 Non-linear Rheology Analysis of Gel Surface Friction
Yusuke Tsuda, Takayuki Kurokawa
- 3Pa043 Bulge test for fatigue characterization of nanometer-thick thin films
Hirohmi Watanabe, Toshinori Okada
- 3Pb044 Adhesive interactions at the interface of dental materials and adhesive monomers: A density functional theory study
Takahiro Uwabe, Yosuke Sumiya, Kazunari Yoshizawa

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 3Pb046 Reversible Surface Modification of Cellulose Nanocrystals by Metal-Polyphenol Networks
Eriko Yamada, Hiroataka Ejima
- 3Pa047 Thermodynamic analysis of gate-opening type CO₂ adsorption mechanism in metal-organic frameworks by DSC
Shino Kannaka, Masataka Ohtani
- 3Pb048 Synthesis of Multi-Metal Mixed Micro Porous MOF
Kotaro Kawabayashi, Masataka Ohtani
- 3Pa049 Carbon Dioxide Adsorption Properties of Cationic Frameworks with Boron-Bridged Structures
Ikuho Akiyama, Masataka Ohtani
- 3Pb050 Development of ion-conductive silsesquioxane hybrids using ternary deep eutectics
Tomohito INOUE, Yuito SONTA, Hideharu MORI
- 3Pa051 Development of ion-conductive self-healing hybrids using ion-dipole interactions
Yuito SONTA, Hideharu MORI
- 3Pb052 Synthesis of powdered adsorbent for boron using radiation-induced graft polymerization
Hiroyuki Hoshina, Noriaki Seko, Yuji Ueki, Masaaki Omichi, Haruyo Amada, Masanori Nakano, Kiyotaka Miyagai, Sakiyori Mononobe, Nagatomo Mononobe, Taizou Uchimura
- 3Pa053 Development of high speed water treatment system with grafted powder adsorbent and SPRING filter
NORIAKI SEKO, HIROYUKI HOSHINA, HARUYO AMADA, MASA AKI OMICHI, YUJI UEKI, MASANORI NAKANO, KIYOTAKA MIYAGAI, TAIZOU UCHIMURA, SAKIYORI MONONOBE
- 3Pb054 Synthesis of POSS cross-linked polymers with Q8H
Naoya Okamura, Kazuki Yamamoto, Masayasu Igarashi, Takahiro Gunji
- 3Pa055 Self-Healing Materials from Biomass of Polysaccharides and their Application to Colloidal Crystals
Chitose Takeda, Naoto Iwata, Seiichi Furumi
- 3Pb056 Creation of Natural Rubber/Cellulose Nanofiber Composites with Poly(trimethylene carbonate)
Shu Morishita, Hiroaki Yoshida, Hiroharu Ajiro
- 3Pa057 Development of a novel organic-inorganic hybrid material using eugenol-based tris(hiirane) compound and titanium isopropoxide
Miyu Satake, Tadashi Tsukamoto, Yoshiyuki Oishi, Yuji Shibasaki, Kohei Takemura, Yosuke Imagawa
- 3Pb058 Synthesis of liquid-crystalline polymer-grafted ZnO nanorods by controlled polymerization and their unidirectional alignment behavior
Kaho Nakano, Shoichi Kubo, Atsushi Shishido
- 3Pa059 Preparation of Electrically Conductive Polymer Composites by Using "Powderized" Liquid Metal of Gallium-Indium Eutectic
Christopher Hiromi SHIMAMURA, Shunichiro ITO, Kazuo TANAKA
- 3Pb060 Synthesis of raspberry-like polymer-TiO₂ hybrid particles
Tomoyuki Nakamura, MD, KAMRUL HASAN, Moriya Kikuchi, Seigou Kawaguchi
- 3Pa061 Investigation of synthesis method for titania hybrid elastomers containing ionic liquids whose physical properties can be controlled by light irradiation
Yuumi Takeoka, Takayuki Ikehara, Shuta Hara
- 3Pb062 Preparation of Composite Materials Comprising Intercalation Compounds and Temperature-Responsive Polymer and Diclofenac for DDS
Jiwon Suh, Toru Hoshi, Takao Aoyagi
- 3Pa063 Fabrication of high-efficiency, high-energy luminescent hybrid thin films using fluorene derivatives
Yui HASEGAWA, Haruka KATAKURA, Masashi NAKAMURA, Tsutomu SHINAGAWA, Seiji WATASE
- 3Pb064 Development of Dispersants for Inorganic Nanoparticles Using Block Copolymer
Hideji Sato, Shuta Hara, Takayuki Ikehara

- 3Pa065 Design of thermoset resin via MI and application to high heat-release insulation material
Tomomasa Kashino, Akiyoshi Oba, Naoki Watabe, Masato Yoshida
- 3Pb066 Electrochromic characterization for Ru(II)-based metallo-supramolecular polymer/layered material composite
Kazuko Fujii, Dines Chandra Santra, Manas Kumar Bera, Kazuhiko Sakata, Takatsugu Wakahara, Ritsuko Nagahata, Masayosi Higuchi
- 3Pa067 Anion-exchange of a two-dimensional bis(terpyridine)cobalt(II) complex polymer and its selectivity
Kenji Takada, Hiroshi Nishihara
- 3Pb068 Fabrication and characterization of biodegradable polyurethane/biphasic ceramics composites (II) -Effect of pore size of biphasic ceramics-
Koshiro Morikubo, Masahiro Fujita, Yuko Takeoka, Masahiro Rikukawa
- 3Pa069 Creation of thermoplastic transparent materials containing ZrO₂ nanoparticles
Yuichiro Onuma, Moriya Kikuchi, Seigou Kawaguchi
- 3Pb070 Effect of molecular weight of two reactive copolymers on the composite interface
Kosei Magara, Kyosuke Ando, Tatsuhiro Takahashi
- 3Pa071 Preparation of chiral silica and evaluation of its molecular encapsulation behaviour.
Hinari Sakai, Yoshinobu Nakamura, Syuji Fujii, Tomoyasu Hirai
- 3Pb072 Cellulose Nanofibers based Phenolic Resin Nanocomposites prepared by in-situ polymerization
Tsubasa Kondo, Seira Morimune-Moriya
- 3Pa073 Physical properties and surface segregation behavior of star-shaped polymers with phenyl-substituted cage silsesquioxanes (POSS)
Rina Tajikawa, Ichiyo Tokuami, Arifumi Okada, Hiroaki Imoto, Kensuke Naka

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 3Pa075 Construction of microtubule superstructures by presentation of Tau-derived peptides on the outer surface of microtubules
Daichi Kageyama, Hiroshi Inaba, Kabir Arif Md. Rashedul, Akira Kakugo, Kazuki Sada, Kazunori Matsuura
- 3Pb076 Creation of artificial viral capsid encapsulated quadruplex DNA
Motono Ishii, Hiroshi Inaba, Kazunori Matsuura
- 3Pa077 Budding of alkyl anchor-modified artificial viral capsids from giant liposome
Miu Hirahara, Hiroto Furukawa, Kentarou Sakamoto, Hiroshi Inaba, Kazunori Matsuura
- 3Pb078 LLPS Materials Suppressing Aggregation for Protein Folding
Yukino Yamashita, Erika Miura, Takuya Mabuchi, Takahiro Muraoka
- 3Pa079 Protein folding promotion by thiol compounds with aggregation inhibitory effects
Koki Suzuki, Ryoya Nojiri, Takahiro Muraoka
- 3Pb080 Development of thiol compounds facilitating oxidative protein folding in a crowded environment
Mai Kitamura, Takahiro Muraoka
- 3Pa081 Cell cryoprotection by antifreeze protein-derived peptides
Yota Imahori, Kazuya Matsuo, Tomonori Waku, Akio Kobori
- 3Pb082 Design of PEGylated protein nanoparticles for inhibiting amyloid β aggregation.
Rina Tokazu, Kazuya Matsuo, Tomonori Waku, Akio Kobori
- 3Pa083 Isolation and purification of Polymyxin biosynthetic enzyme module, and activity evaluation of the adenylation domain contained therein
Taichi Mano, Toshihisa Mizuno
- 3Pb084 Gene cloning of enzyme modules constituting Polymyxin biosynthetic enzyme and investigation of protein purification methods
Mai Nemoto, Toshihisa Mizuno
- 3Pa085 A D-peptide inhibits fibril formation of Amyloid β
Haruhiko Miwa, Shiho Seguchi, Ayaka Hayashi, Kenta Morita, Eri Chatani, Tatsuo Maruyama
- 3Pb086 Intermolecular degradation of amide bonds using histidine-containing peptide lipids
Toshihisa Kimura, Natsumi Shimizu, Kenta Morita, Tatsuo Maruyama

- 3Pa087 Investigation of Denature and Aggregation of Proteins and Enzymes under Microwave Irradiation
Mizuki Yoshihara, Yuna Sakakibara, Eito Hukushima, Yunting Ma, Yoshihiro Sasaki, Kazunari Akiyoshi, Hikaru Takaya
- 3Pb088 Search for amino acid-bearing polymers with high affinity for lignin
Rika Hinohara, Tomonari Tanaka
- 3Pa089 Design of Photoresponsive Polypeptides and Their Applications as Cell Culture Substrates
Yume Takao, Akifumi Kawamura, Takashi Miyata
- 3Pb090 Synthesis of sequential peptides containing non-standard amino acid and effect of amino acid sequence on their structural properties
Nao Horio, Yoshihito Inai
- 3Pa091 Synthesis of peptide backbones bearing non-standard amino acid and investigation of their structure and aggregation properties
Masaya Kobayashi, Yoshihito Inai
- 3Pb092 Synthesis and structural properties of peptide possessing flexible chain and non-standard amino acid residue
Kensuke Katagiri, Yoshihito Inai
- 3Pa093 Helix-forming tendency and structural stability of periodic peptide bearing unusual amino acid residues
Yusuke Tanaka, Yoshihito Inai
- 3Pb094 Synthesis of multi-functional molecules bearing unusual amino acid and evaluation of chemical structure on aggregate shape
Tsubasa Miyawaki, Yoshihito Inai
- 3Pb096 Utilizing core-shell fibermats that encapsulate the lactase-sensor protein as scaffolds for cell incubation
Yuna Kato, Toshihisa Mizuno
- 3Pa097 Study on the separation and concentration technique of ligand molecules from contaminated solutions using the ligand-binding protein-immobilized fibermats, prepared by SCES method.
Momoka Kato, Tshihisa Mizuno
- 3Pb098 Postoperative adhesion prevention using hydration-driven colloidal gel formation by on soft tissue
Shima Ito, Kazuhiro Nagasaka, Akihiro Nishiguchi, Tetsushi Taguchi
- 3Pa099 Molecular weight effect of sulfobetaine polymers in mitochondrial imaging
Sayaka Toita, Nobuyuki Morimoto
- 3Pb100 Synthesis of block copolymers of poly(lactic acid) and poly(2-methoxyethyl acrylate) for thermoplastic elastomers in medical use
Natsumi Sugishima, Syo Sakuta, Nobuo Murase, Yuichi Ohya
- 3Pa101 Preparation of retinal prosthesis using photoelectric dyes coupled to cellulose nanofiber sheet
Masato Matsushima, Tetsuya Uchida
- 3Pb102 Surface modification of epoxidized polyethylene with phosphorylcholine derivatives having carboxy groups
Yuki Matsui, Toru Hoshi, Takao Aoyagi
- 3Pa103 Hydrogel that induces surface cleaning by surface degradation
Syuuhei Komatsu, Akihiko Kikuchi

Presentation Time

<c = 13:20~14:00>

<d = 14:00~14:40>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 3Pc001 Preparation of phenolic resin derivatives having bulky substituent groups and their composition with commodity polymers.
Moemi Shimoura, Kaho Mitera, Shin-ichi Ohfuchi, Tadamasu Nemoto

- 3Pd002 Preparation of external stimuli-responsive phenolic resin derivatives with thermoplasticity
Misaki Asada, Ryohei Iwano, Tadamasu Nemoto
- 3Pc003 Synthesis of branch polymers based on phenolic resin derivatives with polymerization initiation sites
Saya Hirama, Yo Sakashita, Haruka Kido, Shin-ichi Ohfuchi, Tadamasu Nemoto
- 3Pd004 Curing of bio-based carbonate resins prepared from citric acid and properties of the cured resins
Ryo Okita, Kozo Matsumoto
- 3Pc005 Synthesis and degradability evaluation of polyesters obtained by dimerization of lignin derivatives and condensation with diols
Kazuma Abe, Kohdai Oda, Konoka Kayatani, Miyuki Oshimura, Tomohiro Hirano, Koichi Ute
- 3Pd006 Synthesis of Dense 1,2,3-Triazole Polymers via Ruthenium(II)-Catalyzed Azide-Alkyne Cycloaddition Polymerization
Ryoichi Taguchi, Masaki Nakahata, Yuri Kamon, Akihito Hashidzume
- 3Pc007 Formation of aromatic polymer spheres using spontaneous phase separation during polymerization reaction in solid polymer matrix
Tatsuya Ozono, Nanami Hano, Hirotaka Ihara, Makoto Takafuji
- 3Pd008 Polyaddition of myo-inositol-derived dithiols with diepoxides
Masashi Yoshida, Atsushi Sudo
- 3Pc009 Visible light-driven reductive coupling of furfural
Hidetaka Sakai, Atsushi Sudo
- 3Pd010 Visible light-driven reductive coupling of aromatic aldehydes with vinyl groups
Riku Kitamura, Atsushi Sudo
- 3Pc011 Rearrangement of Cyanurates into Isocyanurates
Kazuki Nakagawa, Takumi Kurimoto, Morio Yonekawa, Hajime Kimura, Atsushi Sudo
- 3Pd012 Synthesis of Aromatic Poly(thioether/ether)s by Oxidative Polymerization and Their Blending Properties
Shuma Miura, Seigo Watanabe, Kenichi Oyaizu
- 3Pc013 Synthesis of Transparent and Highly Refractive Poly(xylylene thiourea)s and Their Optical Properties upon Blending
Yoshino Tsunekawa, Seigo Watanabe, Kenichi Oyaizu
- 3Pd014 Synthesis of Bio-based Polyamides Derived from Itaconic Acid with Controlled Stereoregularity
Kohei Amada, Hongrong Yin, Singh Maninder, Ali Mohammad Asif, Kenji Takada, Tatsuo Kaneko
- 3Pc015 Synthesis of itaconic acid derived biopolyurethane with excellent degradability
Saki Kanda, Hongrong Yin, Kenji Takada, Tatsuo Kaneko
- 3Pc017 Radical Copolymerization of Pendant-Responsive Comonomers with Various Spacer Lengths and Main-chain Degradation Behavior of the Resulting Polymers.
Sota Yamamoto, Tomohiro Kubo, Kotaro Satoh
- 3Pd018 Enhancing the Degradability of Polyesters by Thionation
Masayuki Okamoto, Tomohiro Kubo, Kotaro Satoh
- 3Pc019 Synthesis of Vinyl Polymers Bearing Boron on the Backbone and the Stimuli-Responsive Behaviors Derived from Lewis Acidic Boron
Takuma Kawada, Tsuyoshi Nishikawa, Makoto Ouchi
- 3Pd020 Radiation-induced graft polymerization of lignin-derived monomers in halobenzene solvents
Toru Nirazuka, Kiho Matsubara, Masaaki Omichi, Noriaki Seko, Ryohei Kakuchi
- 3Pc021 Transesterification of the isotactic poly(ethyl acrylate) prepared by anionic polymerization with bulky zincate
Yuzuki Kobayashi, Miyuki Oshimura, Tomohiro Hirano, Koichi Ute
- 3Pd022 Amino Group Modification of Poly(Vinyl Alcohol) Side Chains and Solubility Evaluation of Them by the pH and Temperature Change
Ryo Fujiwara, Kai ming Huang, Miyuki Oshimura, Tomohiro Hirano, Koichi Ute
- 3Pc023 Amino group modification and solubility evaluation of poly(vinyl alcohol) - Effects of the kind of amino esters -

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 3Pd026 Correlation between Stringability and Nonlinear Viscoelasticity near Gelation Point
Kyoichi Tsurusaki, Rika Takeda
- 3Pc027 Investigation of gelation point determined by nonlinear viscoelastic index
Rika Takeda, Kyoichi Tsurusaki
- 3Pd028 Fatigue behavior of composite hydrogel with anisotropic lamellar bilayer structure
Most Laboni BEGUM, Milena LAMA, Xueyu LI, Md. Anamul HAQUE, Jian Ping GONG
- 3Pc029 Phase-Separated Gels: Synthesis Using Immiscible Dual Solvent Systems and Specific Mechanical Properties
Ryuto Soma, Shohei Ida, Shokyoku Kanaoka
- 3Pd030 Effect of Polymer Molecular Weight on Strain-Induced Crystallization in Slide-Ring Gels
Lisa Watakabe, Takato Enoki, Koichi Mayumi
- 3Pc031 Mechanical property of poly(N-acryloyl-glycinamide) hydrogels determined by polymerization condition
Shigehito Osawa, Yoshikatsu Akiyama
- 3Pd032 Structure and properties of condensation products based on octa-alkoxy-substituted cage silsesquioxane
Naoki Watanabe, Hiroaki Imoto, Kensuke Naka
- 3Pc033 Hydrogels with hydrophobic crosslinked-domains exhibiting high elasticity and stretchability: Reaction design and synthesis via polymerization-induced self-assembly process
Kaho Harada, Shohei Ida, Hiroki Takeshita, Shokyoku Kanaoka
- 3Pd034 Mechanism of thermoresponsive shrinkage of hydrophilic/hydrophobic random copolymerization gels: evaluation of structural effects using soluble branched polymers
Asahi Jotatsu, Shohei Ida, Shokyoku Kanaoka
- 3Pc035 Acoustic properties of segmented polyurethane gels with uniformly dispersed cross-linked monodisperse PMMA particles.
Yusuke Ueta, Takumi Wada, Takayoshi Hirose, Toshio Kondou, Kazuishi Sato, Masahiko Taniguchi, Kohei Hamachi, Chika Nishitani, Takuya Kubo
- 3Pd036 Gas Responsive Polymers Reinforced with the Aid of CO₂ Gas
Yohei Miwa, Hayato Nakamura, Kazuma Okada, Kei Hashimoto, Shoichi Kutsumizu, Katsuhiko Yamamoto
- 3Pc037 Dissociation of multi-core alginate gel fibers formed by dynamic gelation in a flow field
Kota Sagawa, Misuzu Takahashi, Eri Nasuno, Norihiro Kato
- 3Pd038 Structural investigation and control of gel networks cross-linked with polymers on long side chains
Keita Namba, Takuma Kureha
- 3Pc039 Crystal phase transition behavior in colloidal crystallization of temperature-responsive polymer microgel dispersion
Reina Ota, Hiroki Takeshita, Takumitsu Kida, Katsuhisa Tokumitsu
- 3Pd040 Liquid-liquid phase separation structure of casein-polysaccharide system under shear and structural retention by gel formation
Misuzu Takahashi, Kota Sagawa, Eri Nasuno, Norihiro Kato
- 3Pc041 Synthesis and structure control of dual crosslinkable alginate gels containing dynamic disulfide bonds
Riko Ikezumi, Hiromitsu Sogawa, Fumio Sanda
- 3Pd042 Energy dissipation mechanism in toughening using meso-scale double-network composites
Naoki Monden, R. Daniel King, Takayuki Kurokawa
- 3Pc043 Characterization of networked polymers formed by thermal reaction of bisoxazoline and calixarenes with different molecular weights
Morio Yonekawa, Hajime Kimura, Keiko Ohtsuka
- 3Pd044 Swelling and degradation behavior of dynamic cross-linked gel using double-strand DNA
Yui Suemura, Masashi Ohira, Xiang Li

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 3Pd046 Quantitative evaluation of interaction between acetylene black and cathode active material in liquid by optical microscopy
Takehiro Irokawa, Tatsuya Nagai, Tetsuya Ito, Tatsuhiko Takahashi
- 3Pc047 Fabrication and Electrochemical Characterization of Polymer Electrolytes Membranes for Solid-State Batteries by Combining SIC Polymers and Ionic Liquids
Dongwook Kim, Shizuka Okada, Hideto Nakajima, Izumi Yamada, Takeshi Abe, Makoto Ouchi, Naoki Inui
- 3Pd048 Development of radical quenchers for polymer electrolyte fuel cells (IV) - Effect of hydroxyl group number-
Naoto Oniki, Masahiro Fujita, Yuko Takeoka, Masahiro Rikukawa
- 3Pc049 Mechanical properties of sulfur-rich elastomers and application for all-solid-state lithium-sulfur batteries
Masaki Hayashi, Kenichi Oyaizu
- 3Pd050 Synthesis of Thienothiophene-based Hole Transporting Polymers by Oxidative Polymerization and their Application to a Perovskite Solar Cell
Masaki Minai, Kenichi Oyaizu, Hiroyuki Nishide, Takeo Suga
- 3Pc051 Development of Low Bandgap n-Type Semiconductors Based on a Vinylene-Bridged Difluorobenzothiadiazole
Tomoki Yoshino, Natsuki Hasegawa, Hiroki Mori, Yasushi Nishihara
- 3Pd052 Control of energy levels in discontinuously conjugated polymers through chemical modification
Haoxuan GUO, Hiroyuki AOTA
- 3Pc053 Development of Phenazine-Based Non-fused Non-Fullerene Acceptor for Polymer Solar Cells
Seiya Sugiura, Tomokazu Umeyama
- 3Pd054 Synthesis of Hydrophilic Ferrocene Polymers and Control of Mediation Behavior in Application to Redox Targeting Flow Battery
Yuto IGARASHI, Kan KITAGAWA, Ryota SHINOZAKI, Kenichi OYAIZU
- 3Pc055 Electrochemical properties of non-platinum catalyst using poly(aza iron phthalocyanine) derivatives containing carbon black
Noriko Haiya, Atsushi Ogita, Hidenori Takasawa, Tsukasa Ichikawa, Izuru Kobayashi, Nobukatsu Nemoto, Kotaro Yoshioka, Syota Tanaka, Yuki Sakamoto, Masaji Akimoto
- 3Pd056 Stabilization of LiNMC Cathode Using Organoboron Additives
Zhaohan Liu, Noriyoshi Matsumi
- 3Pc057 Charge-discharge Behavior of LIB Using Polymer Electrolyte Bearing High Density Functional Groups
Amarshi Patra, Noriyoshi Matsumi
- 3Pd058 Fabrication of Modules for Water Electrolyzer using Organic Solar Cells with Non-fullerene Acceptors
Juri Hayashi, Atsushi Aoki
- 3Pc059 Fast Charging Behavior of Lithium-Ion Secondary Batteries Using Bithiophene Containing Imine-Based Conjugated Polymer as Anodic Active Material
Saibrata Punyasloka, Noriyoshi Matsumi
- 3Pd060 Stabilization of Si-based Anode for LIB Using BIAN Type Conjugated Polymer/Poly(lithium acrylate) Composite Binder
Sameer Nirupam Mishra, Noriyoshi Matsumi
- 3Pc061 Anhydrous proton conductor consisting of cellulose nanofiber composite
Hiroki Shibata, Masanori Yamada
- 3Pd062 Photovoltaic Properties of Organic Solar Cells using Vinylene-Bridged Alkoxyfluorobenzothiadiazole-Based Semiconducting Polymers
Hiroki Yamane, Rintaro Adachi, Hiroki Mori, Akira Yamakata, Yasushi Nishihara
- 3Pc063 Optimization of solar hydrogen conversion using PTB7/PC71BM organic solar cells
Goro Kawai, Atsushi Aoki

- 3Pd064 Fabrication of Gel Polymer Electrolytes Consisting of High Concentration Li Salt and Polyethers with Weak Coordination to Li Ion and Their Electrochemical Properties
Daigoro Ishii, Hisashi Kokubo, Kazuhide Ueno, Masayoshi Watanabe, Kaoru Dokko
- 3Pc065 Synthesis of a lithium-type lyotropic liquid crystalline polyelectrolyte and its application to high power lithium-ion battery cathodes
Seiya Ikuta, Kentaro Aoki, Mitsuo Hara, Mayeesha Marium, Nobuyuki Zettsu, Yuki Nagao
- 3Pd066 Effects of central metals on electrochemical properties of novel platinum alternative oxygen reduction catalysts derived from metallic phthalocyanine derivatives with π -conjugated molecules
Tatsumi Sasaki, Yuta Nakazato, Tsukasa Ichikawa, Izuru Kobayashi, Nobukatsu Nemoto, Kotaro Yoshioka, Syota Tanaka, Yuki Sakamoto, Masaji Akimoto
- 3Pc067 Synthesis of polymers containing highly alkaline tolerant triarylsulfonium salts with electron-donating groups for anion-exchange membrane applications.
Tomohiro Imai, Ryoyu Hifumi, Shinsuke Inagi, Ikuyoshi Tomita
- 3Pd068 Synthesis and Characterization of Solid Polymer Electrolytes Composed of Polyether and Boroxine (IV) - Synthesis of Polyether Derivatives -
Mengen Guo, Yuko Takeoka, Masahiro Rikukawa, Masahiro Fujita
- 3Pd070 Preparation and catalytic activity of chiral theophylline-Pd complexes for Suzuki-Miyaura C-C coupling reaction
Katsuya Kaikake, Sara Takahashi, Ren-Hua Jin
- 3Pc071 Adsorptive removal of Cr(VI) ions by porous silica beads functionalized with polyethyleneimines
Ayane Taki, Hiromichi Asamoto, Hiroaki Minamisawa, Kazunori Yamada
- 3Pd072 Adsorption properties of copper ions using thermally cross-linked poly(methacrylic acid) sponges with nano-layered structures
Kazuki Nakada, Yohei Kotsuchibashi
- 3Pc073 Synthesis of poly(diphenylacetylene)s having halogen and trimethylsilyl groups and the gas permeability of their membranes
Toshikazu Sakaguchi, Hikari Yamada, Misa Kuroiwa, Tamotsu Hashimoto
- 3Pd074 Development of filters with silver-polydopamine composite for removal of salts
Towa Higashidani, AZHAR UDDIN, Nobuko Fukuda
- 3Pc075 Synthesis of π -conjugated polymers with *o*-phenylenediamine unit and their charge transfer complexation and use in telomere DNA sensing
Masahiro Tomita, Aohan Wang, Isao Yamaguchi
- 3Pd076 Preparation of thermally rearranged copolybenzoxazole membranes with rigid structures and their gas transport properties
Eikichi Murata, Tomoyuki Suzuki
- 3Pc077 Removal of chlorophenoxy herbicides with porous cellulose beads with quaternary ammonium groups
Kento Terasaka, Hiromichi Asamoto, Hiroaki Minamisawa, Kazunori Yamada
- 3Pd078 Synthesis of mesoporous carbons by the self-assembly and carbonization of poly(4-vinyl pyridine)-*b*-poly(2,2,2-trifluoroethyl methacrylate)
Youngwon Kong, Yuta Miyamori, Haruna Sasaki, Hitomi Kawahara, Kan Hatakeyama, Teruaki Hayakawa, Yuta Nabae
- 3Pc079 D-amino acid-specific colorimetric chirality sensing based on the cooperative chiral recognition of poly(phenylacetylene) with chiral urea receptor
Hokuto Ishimaru, Ryota Suzuki, Satoshi Umeda, Katsuyuki Tsuda, Toshifumi Satoh, Toyoji Kakuchi, Ryosuke Sakai
- 3Pd080 Characterizations of CO₂ sorption properties of rubbery polymers by NMR methods
Nana Okamoto, Hiroaki Yoshimizu
- 3Pc081 Characterizations of Diffusion properties of the methane in polystyrene by H-1 and C-13 PFG NMR
Masaki Kiyokawa, Hiroaki Yoshimizu
- 3Pd082 Characterizations of gas sorption properties of polyethylene terephthalate by NMR methods
Fumiya Fujikubo, Hiroaki Yoshimizu
- 3Pc083 Incorporation of guanidine functionality into polymer main chains and its noncovalent modification for organocatalyst design

- Daiki Mori, Keiji Minagawa, Yukihiro Arakawa
 3Pd084 Effect of supercritical CO₂ nanostructure and CO₂ separation property in polyimide membrane
Daisuke Nukui, Kenji Ogino, Shinji Kanehashi
 3Pc085 Detection of Alkyl Halides Using an Extended-gate-type Polymer Transistor Functionalized with a Tetrazole Derivative
Takayuki Kawashima, Yui Sasaki, Kohei Ohshiro, Hikaru Tanaka, Akari Yamagami, Yoshinori Ueno, Tsuyoshi Minami
 3Pd086 Selective adsorption of urea by urea molecularly imprinted polyethyleneimine beads
Syunsuke Maru, Daisuke Takahashi

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 3Pd088 Morphology-dependent bioadhesion properties of self-assembling peptides
Atsuya Yaguchi, Noriyuki Uchida, Hirotsugu Hiramatsu, Itsuki Ajioka, Takahiro Muraoka
 3Pc089 Stabilization and light control of liquid-liquid phase-separated droplets by supramolecular fibers
Shiori Kondo, Noriyuki Uchida, Takahiro Muraoka
 3Pd090 Specific interactions between azacrown ethers and polyphenols and their particle formation
Chisaki Nakaji, Hiroki Seo, Akihiko Hatano, Kenichi Niikura
 3Pc091 Enhanced interaction with polyphenols by terminal hydrophobization of PEG
Karin Tsurumaki, Tatsuki Matsumoto, Hiroki Seo, Akihiko Hatano, Kenichi Niikura
 3Pd092 Design of amphiphilic glycopolymers that interact with biomembranes in response to temperature.
Kazuki Nakamura, Yoshihiro Sasaki, Tomoki Nishimura, Kazunari Akiyoshi
 3Pc093 Synthesis of Velocity-Controllable Polymer Microtube Motors by Light Irradiation
Saki Batori, Teruyuki Komatsu
 3Pd094 Molecular dynamics simulation of vesicle deformation and division from sphere by adding lipids
Naohito URAKAMI, Yuka SAKUMA, Masayuki IMAI
 3Pc095 Preparation of liquid-liquid phase separated droplets based on polymer nanoparticles
Yuito Kano, Keitaro Kojima, Masao Kamimura
 3Pd096 Amination of poly(arbutin)-g-poly(γ -benzyl glutamate) and the micelle behavior
Kota Nishizawa, Yuhei Takata, Tadashi Tsukamoto, Yoshiyuki Oishi, Yuji Shibasaki
 3Pc097 Preparation of Sulfobetaine Polymer Nanoparticles showing Upper Critical Solution Temperature
Hodaka Hara, Shin-ichi Yusa
 3Pd098 Ultrafast Energy Transfer of Light-Harvesting Complex 2 (LH2) Bearing Artificial Fluorophores
Masato Hirakawa, Ryoga Morisita, Masaya Kitou, Sora Ishikawa, Tetsuya Yamamoto, Yusuke Yoneda, Masaharu Kondou, Yutaka Nagasawa, Takehisa Dewa
 3Pc099 Energy transfer from a light-harvesting phase composed of a photopolymerizable lipid (Diyne-PC) to a light-harvesting system complex (LH2)
Kaoru Hasegawa, Masaharu Kondo, Kenichi Morigaki, Takehisa Dewa
 3Pd100 Photocatalytic reaction of light-harvesting 1-reaction center core complex (LH1-RC) driven by semiconductor photocatalysts
Akane Kakami, Ryo Kokubo, Masaharu Kondo, Hajime Suzuki, Ryu Abe, Takehisa Dewa
 3Pc101 Formation of artificial supramolecular complex expressed in a purple bacterial photosynthetic membrane
Junna Hata, Yasushi Suzuki, Takuya Wada, Masaharu Kondo, Takehisa Dewa