

Room P

E314, Institute for the Advancement of Higher Education

Mon. Sep 5

Presentation Time

<c = 13:20~14:00>

<d = 14:00~14:40>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 1Pc001 Photocontrol of Polymer Structures and Properties by Molecular Switches Offering Large Motions, Near-Quantitative Photoisomerization, and High Thermal Stability
Naoki Kaneda, Keiichi Imato, Ayane Sasaki, Akira Ishii, Ichiro Imae, Yousuke Ooyama
- 1Pd002 Synthesis of bio-based macrocyclic polycarbonate and functionalization of polycarbonate based on dynamic covalent chemistry
Takumi Abe, Hirogi Yokochi, Daisuke Aoki, Hideyuki Otsuka
- 1Pc003 Utilization of Photosensitive Molecules Based on Fluorene and Truxene Chromophore in the Formation and Degradation of Networked Polymers
Kanji Suyama, Hirokazu Hayashi, Hideki Tachi
- 1Pd004 Synthesis of cross-linked polysiloxane with a carboxy group on the imidazolium moiety
Sae Ishiguro, Takuma Kawamura, Tsukasa Ichikawa, Nobukatsu Nemoto
- 1Pc005 Introduction of perfluoroalkyl groups into polystyrenes using photoinduced radical addition
Ai Yamaguchi, Tadashi Kanbara, Tomoko Yajima
- 1Pd006 Spacer effect in healable cross-linked polymers with exchangeable cross-linking points
Sae Sakamoto, Daisuke Aoki, Hideyuki Otsuka
- 1Pc007 Multi-faceted analysis of polyethylene terephthalate film at an early stage of ultraviolet degradation
Takaya Satoh, Azusa Kubota, Yusuke Sakuda, Chikako Nakayama, Sayaka Nakamura, Ryota Watanabe, Shogo Yamane, Hideaki Hagiwara, Hiroaki Sato
- 1Pd008 Post-functionalization of polythiophene derivatives via anodic phosphonylation
Kohei Taniguchi, Tomoyuki Kurioka, Naoki Shida, Ikuyoshi Tomita, Shinsuke Inagi
- 1Pc009 Polymer Mechanochemistry of Molecular Switches Offering Large Motions, Near-Quantitative Photoisomerization, and High Thermal Stability
Akira Ishii, Keiichi Imato, Ayane Sasaki, Ichiro Imae, Yousuke Ooyama
- 1Pd010 The difference in structure change between photo and thermal reactions of polyvinyl chloride.
Natsuki Watabe, Tsubasa Onoue, Tsukasa Ichikawa, Nobukatsu Nemoto, Yasushi Numata
- 1Pc011 The study on cross-linking reaction of polymer micelles bearing active ester moieties in the core region
Takahiro Komatsu, Makoto Obata
- 1Pd012 Synthesis and photocuring properties of photosensitive copolymers containing pendant polyhedral-oligomeric-silsesquioxane
Haruka Onoda, Soma Suzuki, Hiromi Nagai, Akira Takahashi, Nobuhito Ito, Kazuya Sato, Atsushi Kameyama
- 1Pc013 Study of functional polymer design technology by ester modification
Masayoshi Ido
- 1Pd014 Preparation of Silicone Resin with Movable Cross-Linking Points via Azide-Alkene Cycloaddition Reaction of Polypseudorotaxane

Daichi Suzuki, Kanta Wakai, Takahiro Uno, Masataka Kubo

1Pc015 Controlled synthesis of borophene-like 2D structures
Reina Iizuka, Tetsuya Kambe, Dongwan Yan, Reina Hosono, Kimihisa Yamamoto

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A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

1Pc017 Network polymers using multibranched polymers having reactive functional groups at chain ends
Yuki Kokita, Kaoru Adachi

1Pd018 Electrochemical synthesis of covalent organic frameworks based on imine bond formation by using an electrogenerated acid
Tomoki Shirokura, Tomoki Hirohata, Ryoyu Hifumi, Ikuyoshi Tomita, Shinsuke Inagi

1Pc019 Investigation of ring-opening metathesis polymerization of hyperbranched polyamide macromonomers bearing *exo*-norbornene moiety for the synthesis of high-molecular-weight brush block copolymers with narrow molecular weight distribution
Shuuji NAKAZAWA, Mizuki SATO, Hiroki KOBAYASHI, Yoshihiro OHTA, Tsutomu YOKOZAWA

1Pd020 Synthesis of Cyclic Poly(Ethylene Glycol) with an Acid-Cleavable Functionality
Masato Yamasaki, Takuya Yamamoto

1Pc021 Synthesis of Fluorine-Containing Hyperbranched Polybenzoxazole Using A2+B3 Type Polycondensation Reaction
koshu Nakamura, Hiroto Kudo

1Pd022 Synthesis of tripodal poly(methyl methacrylate) utilizing an incompletely condensed cage silsesquioxane as a scaffold and structure-property relationships
Ryota Tanaka, Amoto Igarashi, Taihei Hayashi, Hiroaki Imoto, Kensuke Naka

1Pc023 FACILE SYNTHESIS OF ORTHOGONALLY CLICKABLE HYPERBRANCHED POLYESTERS
Ravi Teja Ananthu, Suresh Kumar Perala, Ramakrishnan Subramaniam

1Pd024 The hydrophilic hydrophobic balance of PAMAM dendrimers having randomly substituted two oxazoline units on the surface and its effect on thermoresponsive properties
Yui Nishikawa, Makoto Kishi, Keigo Aoi

1Pc025 Synthesis of star-shaped polymers bearing periodic arm polymers through microgel-core formation
Yukina Ogura, Jin Motoyanagi, Masahiko Minoda

1Pd026 Synthesis and Properties of Poly(α -alkoxymethylacrylic acid)s Bearing Dodecyl Groups
Kazuki Kawai, Junya Suzuki, Shun Ishihara, Takahiro Uno, Masataka Kubo, Takahito Itoh

1Pc027 Synthesis of Precise Network Polymers with Specific Degradability of Linkage Sites
Junichiro Takahashi, Tomohiro Kubo, Kotaro Satoh

1Pd028 Synthesis and ionic conductivity of polyester dendrimers derived from dianhydrohexitol
Kouhei Matsuda, Kouta Imori, Yuzo Ishigaki, Keigo Aoi

1Pc029 Synthesis of Controlled Polysulfides and Star Polysulfides by Insertion Reaction of Carbamothioate Compounds with Thiiranes
Ryouta Tsutsui, Hiroto Kudo

1Pd030 Synthesis of well-defined hyperbranched poly(thienylene-phenylene) by means of Kumada-Tamao catalyst-transfer condensation polymerization and synthesis of diblock copolymers with polystyrene through click reaction
Arisa YAMAMOTO, Yoshihiro OHTA, Tsutomu YOKOZAWA

1Pc031 Preparation of porous polymeric materials with ethylene glycol bearing acrylates and ions based on the supramolecular coordination structures
Ryuhei Manji, shinobu Uemura

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B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

1Pc033 Influence of chain topology such as cyclic and linear on the formation of banded spherulites of poly (p-dioxanone)
Mayuko Kimura, Ryogo Ono, Hironori Atarashi, Shinichi Yamazaki, Kunio Kimura

1Pd034 Phase separation-induced vitrification by semi-soluble polymer/plasticizer
Mayu WATANABE, KIYAMA Ryuji, Dong SHI, Takayuki NONOYAMA, JianPing GONG

1Pc035 Role of Nucleating Agent on Chain Orientation of Polypropylene Crystallized under Shear Flow
Khunanya Janchai, Takumitsu Kida, Takahiro Inoue, Shohei Iwasaki, Masayuki Yamaguchi

1Pd036 Formation of self-assembly of star oligourethane having triphenylene core
Shunya Inayama, Shotaro Hayashi

1Pc037 Structural analysis of nano-void formed by high-pressure hydrogen gas exposure using SAXS
Keiko Ohyama, Fumitoshi Kaneko, Hirotada Fujiwara, Masahiro Kasai, Hiroaki Ono, Shin Nishimura

1Pd038 Effect of blend ratio on the isothermal crystallization behavior of cyclic and linear polyethylene blends under quiescent state
Keiko Kobayashi, Hironori Atarashi, Shinichi Yamazaki, Kunio Kimura

1Pc039 Mechanism of formation of quasicrystals and their approximate crystals in the block copolymer phase separation structure
Ryosuke Mio, Katsuhiko Yamamoto, Hideaki Takagi

1Pd040 Structures of Linear-short-chained Molecules / Bottlebrush Polymer Blends: Effect of Stereoregularity of Bottlebrush Polymer
Yohsuke Ohkame, Koji Nozaki, Tatsuya Kokumai

1Pc041 Structural analysis using tender X-rays in a hydrous environment of sulfur-containing polymer block copolymers
YUKI ONO, KATUHIRO YAMAMOTO, HIDEAKI TAKAGI

1Pd042 Disordered Helical Molecular Arrangements in α -form Crystals of Isotactic Polypropylene
Takahiro Miyoshi, Koji Yamada, Koji Nozaki, Akihiko Toda

1Pc043 Chiral selecting crystallization of helical polymers: A molecular dynamics simulation
Takashi Yamamoto

1Pd044 Crystallization behavior of grafted chains of Poly(ϵ -caprolactone) with Poly(vinyl butyral)
Takayuki Ikehara, Shuta Hara, Yudai Tega

1Pc045 Melting and Recrystallization, and $\alpha 1$ - $\alpha 2$ Phase Transition of Isotactic Polypropylene Crystals: In Situ Wide-Angle X-ray Diffraction
Misako Inagaki, Koji Nozaki, Koji Yamada

1Pd046 Local structure and growth model of polymer spherulites studied by nanodiffraction imaging
Koichi Azuma, Shusuke Kanomi, Hironori Marubayashi, Tomohiro Miyata, Hiroshi Jinnai

1Pc047 Reaction Acceleration Mechanism by Radiation-induced Graft Polymerization for Poly(ether ether ketone) Membrane with Solvent Annealing.

SHIN HASEGAWA, KIMIO YOSHIMURA, AKIHIRO HIROKI, YUE ZHAO, YASUNARI MAEKAWA

- 1Pd048 Synthesis and crystallization of poly(ϵ -caprolactone) having substituent group different from repeating unit at the center or an end of the chain
Shinya Ando, Hironori Atarashi, Shinichi Yamazaki, Kunio Kimura

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B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 1Pc049 Effect of cellulose nanofibers on the crystal structure of poly (vinylidene fluoride)/organoclay composites
Masato Hoshi, Tomonori Koda, Hiroko Yano, Taichi Nishio, Takeshi Nakatani, Akihiro Nishioka
- 1Pd050 Structure Prediction of Graft-type Polymer Electrolyte Membranes by Dissipative Particle Dynamics Simulation
Masataka Abe, Toshinori Motegi, Kimio Yoshimura, Akihiro Hiroki, Yue Zhao, Yasunari Maekawa
- 1Pc051 Adsorption of ethanol by blend film using syndiotactic polystyrene.
Mikito Nishioka, Takahiko Nakaoki
- 1Pd052 Adsorption of ethanol on nanopores of water/ethanol clusters and syndiotactics
Takahiko Nakaoki, Manato Yamawaki
- 1Pc053 Crystallization of stereocomplex polylactic acid formed from gelation process.
Takahiko Nakaoki, Yoshiki Tamura
- 1Pd054 Dynamic response of molecular entanglements based on relaxation time distribution of ultrahigh-molecular-weight polyethylene melt
Ayaka Takazawa, Masaki Kakiage, Hiroki Uehara, Takeshi Yamanobe, Yui Shimizu, Takuya Ohnishi, Yasutake Wakabayashi, Shigehiko Abe
- 1Pc055 Stress-Induced Crystal Transformation and Microstructural Change of Poly(butylene naphthalate)
Tatsuya Teranishi, Takuya Matsumoto, Takashi Nishino
- 1Pd056 Materials possessing brain-like long-term dynamic memory controlled by the phase separation intensity
Yuki INOUE, Dong SHI, Takayuki NONOYAMA, JianPing GONG

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 1Pd058 Effect of polymer addition on circularly polarized light induced molecular rotation in dye-doped liquid crystals
Mirai Motoyama, Junki Yokota, Kohsuke Matsumoto, Miho Aizawa, Kyohei Hisano, Shoichi Kubo, Atsushi Shishido
- 1Pc059 Temperature-variable control of circularly polarized luminescence (CPL) in peptide-pyrene luminophore
Ryoya Ikemura, Renta Uchihashi, Koki Ishii, Mizuki Kitamatsu, Yoshitane Imai
- 1Pd060 Triplet-Triplet Annihilation Upconversion Using Emitting Amorphous Molecular Materials
Shungo Naemura, Ryoma Matsui, Hiroki Asanuma, Ikumi Matsumoto, Hideyuki Nakano
- 1Pc061 Creation of Chiral Amorphous Molecular Materials Possessing Phenylethylamine Moieties
Oki Takeshita, Hideyuki Nakano
- 1Pd062 Creation of Cyanostilbene-based Amorphous Molecular Materials and Elucidation of Their Emitting Properties

- Kou Miyagishi, Hiroya Fukushima, Kensuke Mori, Yoshimitu Sagara, Kenta Kokado, Takayoshi Nakamura, Nobuyuki Tamaoki, Hideyuki Nakano
- 1Pc063 Emission-color tuning by hybridizing ionic nanosphere having strongly-fluorescent moieties and phosphorescent transition metal complexes
Taizo Misato, Akitaka Ito
- 1Pd064 Development of Dendritic TADF Materials with Bulky Substituents
Hiroki Ikebe, Kohei Nakao, Ken Albrecht, Takuya Hosokai, Minoru Hurukori
- 1Pc065 Development of Mononuclear Aluminum Complexes with Different Symmetry Carbazole Dendrimer
Kohei Nakao, Minoru Furukori, Takuya Hosokai, Ken Albrecht
- 1Pd066 Stability and photophysical properties of 1,2,5-triarylcycloalka[c]arsoles derivatives including their polymers
Suzuka Iwasaki, Hiroaki Imoto, Kensuke Naka
- 1Pc067 Direct conversion of photoaligned liquid crystalline polymer films to polarized fluorescent films based on direct exchange of aligned mesogen (1)
Hinano Yamaguchi, Mizuho Kondo, Tomoyuki Sasaki, Moritsugu Sakamoto, Hiroshi Ono, Nobuhiro Kawatsuki
- 1Pd068 Direct conversion of photoaligned liquid crystalline polymer films to polarized fluorescent films based on direct exchange of aligned mesogen (2)
Mizuki Tanaka, Hinano Yamaguchi, Mizuho Kondo, Tomoyuki Sasaki, Moritugu Sakamoto, Hiroshi Ono, Nobuhiro Kawatsuki
- 1Pc069 Evaluation of gelation ability of mechanochromic materials containing cholesterol at the molecular terminal and evaluation of mechano/electric response in polymer composite films.
Satoka Yanai, Mizuho Kondo, Takeshi Kakibe, Nobuhiro Kawatsuki
- 1Pd070 Synthesis and fluorescence properties of polyesters and polycarbonates having AIEgens in the main chain
Gen-ichi Konishi, Amir Sairi, Riki Iwai
- 1Pc071 Phosphorescence of Iridium complex Enhanced by Hybridized Polysilsesquioxane
Yuki Kuroda, Masashi Nakamura, Koji Mitamura, Mitsuru Wakanabe, Araki Masuyama, Seiji Watase
- 1Pd072 Luminescent Properties of Polysilsesquioxane Thin Films Hybridized with Copper complex
Daiki Miyamoto, Masashi Nakamura, Koji Mitamura, Mitsuru Watanabe, Hiroyuki Enomoto, Seiji Watase

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C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 1Pc073 Synthesis of Chiral Polyaniline Containing Cyclophane in the Main Chain
Haruto Ouchi, Yu Kitazawa, Mutsumi Kimura
- 1Pd074 Synthesis and Carrier Transport Properties of Highly Conductive PEDOT:PSS
Sho Takano, Yusuke Fukasawa, Hidenori Okuzki
- 1Pc075 Control of Metal Oxide Film Junction Interface with Polyelectrolytes and its Diode Characteristics
Yoshiyuki Tsukiyama, Yuro Saegusa, Mitsuru Watanabe, Koji Mitamura, Masashi Nakamura, Toshiyuki Tamai, Hiroyuki Enomoto, Seiji Watase
- 1Pd076 Star-shaped Polymers for Charge-Trapping Materials
Junko AIMI
- 1Pc077 Preparation of low dielectric cured cyanate resins from fluorinated bisphenols
Kai Konno, Tadashi Tsukamoto, Yuji Shibasaki, Yoshiyuki Oishi

- 1Pd078 Synthesis and low dielectric properties of fluorinated polyimides containing perfluoroalkylene groups
Ryuhei Niinuma, Tadashi Tsukamoto, Yuji Shibasaki, Yoshiyuki Oishi
- 1Pc079 Conductivity improvement of self-doped PEDOT microfibers fabricated by rotation-assisted wet-spinning
Sadayoshi Hayashi, Tomokazu Shimura, Ayana Tomioka, Hirokazu Yano, Hidenori Okuzaki
- 1Pd080 Porous structure and thermoelectric properties of PEDOT:PSS aerogels by supercritical drying
Haruka Goto, Shinji Kanehashi, Kenji Ogino, Takeshi Shimomura
- 1Pc081 Development of ketone derivatives aimed at n-type organic semiconductor properties by lowering the electron density by introducing a ketone group
Yuki Kanezawa, Kyouzuke Isoda, Shinobu Uemura
- 1Pd082 Correlation between thermoelectric properties and carrier species of P3HT nanofiber cryogel
Ayaka Iso, Kohei Sato, Takeshi Shimomura, Tetsuya Sato, Masayo Katsumata
- 1Pc083 Synthesis and lithium ion conductivity of polycarbonates derived from dianhydrohexitol
Kazuki Ando, Yuta Kato, Yuzo Ishigaki, Keigo Aoi
- 1Pd084 Preparation of surface-modified fluoropolymer with oxygen-containing functional groups by low-temperature plasma treatment and direct bonding of smooth copper foil to its film
Seiryu Hira, Won Hwan Choi, Shintaro Hisatake, Kohei Shiraishi, miyoshi Yokura, Masatsugu Nagashima
- 1Pc085 Polarity Change of Troger's Base Polymer Electrets by [2+2] Cycloaddition-Retroelectrocyclization Reaction
Chia-Yang Lin, Mei-Nung Chen, Yu-Cheng Chiu, Tsuyoshi Michinobu
- 1Pd086 Thermoelectric properties of ladder polymer BBL n-doped using crown ether complexes
Ryoto YURA, Yoshiyuki NONOGUCHI
- 1Pc087 Preparation of CVD-processed Poly(p-xylylene) thin films having Oxadiazole segments.
Masaki Toya, Yu Kitazawa, Mutsumi Kimura
- 1Pd088 Piezoelectricity measurements of aromatic polyester thin films prepared by thermal chemical vapor deposition.
Shuihiro Aida, Seiji Onohara, Ryosuke Matsubara, Yasuko Koshiba, Shohei Horike, Kenji Ishida, Atsushi Kubono

E. POLYMERS AND ENVIRONMENT

- 1Pc093 Biosynthesis using vegetable oils with different viscosities as a mixed carbon sources by *R. eutropha*
Takahiko Nakaoki, Syunya Oriuchi
- 1Pd094 Mechanical properties of blend film for medium-chain length Poly(3-hydroxyalkanoate) and Poly(3-hydroxybutyrate).
Takahiko Nakaoki, Mituki Ueda
- 1Pc095 Increasing and decreasing of molecular weight during P3HA biosynthesis.
Takahiko Nakaoki, Haruto Nakamura
- 1Pd096 Preferential Metabolism of Glycerin and Sodium Stearate as Mixed Carbon Sources by *R. eutropha*
Mitsuki Nagahama, Takahiko Nakaoki

E. POLYMERS AND ENVIRONMENT

- 1Pc097 The effects of copolymer structure on enzymatic degradability for poly(L-lactide) copolymers
Chikara Tsutsumi, Kazuya Tanimoto, Ayumu Takahashi, Shinnosuke Akagawa, Susumu Nakayama, Yuushou Nakayama, Takeshi Shiono
- 1Pd098 Evaluation of the blend of chitosan and erythritol-containing poly(trimethylene carbonate)
Yuka Morimura, Choochottiros Chantiga, Ekapakul Natjaya, Nalinthip Chanthaset, Hiroharu Ajiro
- 1Pc099 Synthesis and Characterization of Cationic Cellulose (II) -Fabrication of Ion Gels-
Yutaro Hayashi, Yuko Takeoka, Masahiro Rikukawa, Masahiro Fujita
- 1Pd100 Resinification Conditions and Thermo-Mechanical Properties of Glycol lignin
Haruka Kato, Ayumi Kobayashi, Kohei Iritani, Thi Thi Nge, Tatsuhiko Yamada, Takashi Yamashita
- 1Pc101 Synthesis of Aliphatic Polycarbonates Composed of Naturally Occurring Molecules
Tetsuya Ueda, Kazuki Fukushima, Takashi Kato
- 1Pd102 Fabrication of thermally cross-linked sponges consisting of poly(methacrylic acid)/poly(vinyl alcohol) and their degradation
Haruki Uchida, Daiki Kobayashi, Masayuki Kirihara, Kotsuchibashi Yohei
- 1Pc103 Identification of novel polyhydroxyalkanoate synthases with the ability of polymerizing various monomers
M Ramamoorthi Sivashankari, Yuki Miyahara, Shoji Mizuno, Takeharu Tsuge
- 1Pd104 Evaluation of physical properties of microbial polyesters with 3-hydroxy-2-methylbutyrate
Tomoya Nakamura, Furutate Sho, Mierzati Maierwufu, Takeharu Tsuge
- 1Pc105 Characterization of polyhydroxyalkanoate containing amino acid-derived monomers
Kazuho Kosuge, Ayata Nakagawa, Tetsuo Sakurai, Shoji Mizuno, Takeharu Tsuge
- 1Pd106 A new bio-polythioester with exceptional elastomeric behavior, and its copolymerization with 3-hydroxybutyrate
Lucas Vinicius Santini Ceneviva, Maierwufu Mierzati, Yuki Miyahara, Takeharu Tsuge
- 1Pc107 Structure and mechanical property of natural rubber prepared by spray drying
Yoshimasa Yamamoto, Akihiro Sato, Anna Sasaki, Seiichi Kawahara
- 1Pd108 Biosynthesis of polyhydroxyalkanoate containing methyl side chain at α -position
Marii Ishino, Yuki Miyahara, Takeharu Tsuge
- 1Pc109 Epoxidation of fish oil by hydrogen peroxide oxidation, and development of thermosetting resin based on fish oil
Yohtarto Inoue
- 1Pd110 Flowability of Gel-Matrix and Magnetorheological Effect for Polysaccharide Magnetic Hydrogels
Masahiro Kaneko, Mika Kawai, Tetsu Mitsumata
- 1Pc111 Preparation of lignophenol-based recyclable network polymers based on precise designs
Mitsuru Aoyagi, Ayumi Yamaguchi, Hideaki Matsuoka, Kousuke Suzuki, Kentaro Hashigata

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E. POLYMERS AND ENVIRONMENT

- 1Pc113 Prediction of polymer degradability by integration of incompatible datasets with preference learning

Weilin Yuan, Yusuke Hibi, Ryo Tamura, Masato Sumita, Yasuyuki Nakamura, Masanobu Naito, Koji Tsuda

- 1Pd114 Relationship of Oxygen Consumption by Biodegradation and Amount of Residual Polymers as for PHB, PCL and PA4
Atsuyoshi Nakayama, Shodai Hino, Norioki Kawasaki, Naoko Yamano
- 1Pc115 Preparation of Activated Seawater for Biodegradation Test
Shodai Hino, Naoko Yamano, Norioki Kawasaki, Atsuyoshi Nakayama
- 1Pc117 Development of polymer ligands for recycling of platinum group metals with low environmental impact
Naoya Kaneko, Daisuke Aoki, Tatsuo Taniguchi, Takashi Karatsu, Ryuhei Motokawa, Tomoya Suzuki, Hirokazu Narita
- 1Pd118 Tetraphenylporphyrin Synthesis Utilizing Deep Eutectic Solvents
Satoshi Kitaoka, Maho Motohiro, Kaoru Nobuoka
- 1Pc119 An attempt of the surfactant-free heterogeneous polymerization of styrene by using the electrospray in water
Satoshi Nitani, Masahiro Tsuchiya, Shuto Yamada
- 1Pd120 Synthesis of polyphenylacetylene derivatives using a ball-milling approach
Haruki Ikushima, Yasuteru Mawatari

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Presentation Time

<e = 15:20~16:00>

<f = 16:00~16:40>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 1Pe001 Polymer reaction of poly(arbutin)-co-poly(ethyleneimine) with epoxy compounds
Yoshiki Komaki, Tadashi Tsukamoto, Yoshiyuki Oishi, Yuji Shibasaki
- 1Pf002 Synthesis of halogen bonding donor and acceptor polymers towards the creation of supramolecular polymer networks
Nozomi Nishimura, Kira Landenberger
- 1Pe003 Development of the ¹⁹F-labeled maleimide-type crosslinkers for traceable end group modification
Kazuma Okawa, Makoto Obata
- 1Pf004 Unique Reactivity of Stimuli-responsive Molecules Incorporated into Bottlebrush Polymers
Riho Shibata, Takuma Watabe, Daisuke Aoki, Hideyuki Otsuka
- 1Pe005 Synthesis of Reactive Poly(phenylene sulfide) Derivatives and Properties of Their Crosslinking Films Using Difunctional Silsesquioxane
Tomohiro Miura, Seigo Watanabe, Kenichi Oyaizu
- 1Pf006 Transformation of Polyethyleneimine into Polymetformin
Yuya Saza, Ren-hua Jin
- 1Pe007 Chemical Modification and Crosslinking Reactions of cis-1,4-Polyisoprene derived from Natural Rubber
Aiko Sano, Ryota Shimizu, Haruka Michibata, Gennki Fukasawa, Yoko Aoyama
- 1Pf008 Kinetic study on vulcanization of natural rubber through rubber-state NMR spectroscopy
Daisuke Abe, Masaki Yamano, Seiichi Kawahara
- 1Pe009 Synthesis of Poly(arbutin)-g-Poly(5-benzyl-L-glutamate)
Kota Nishizawa, Yuhei Takata, Tadashi Tsukamoto, Yoshiyuki Oishi, Yuji Shibasaki
- 1Pf010 new synthesis of high spiropyran content polymer and evaluation of mechanical properties

Kazuma Kawasaki, Shintaro Nakagawa, Naoko Yoshie

- 1Pe011 Synthesis of ethylene/propylene/butadiene terpolymer catalyzed by zirconocene and cross metathesis reaction
Yuta Yanagi, Ryou Tanaka, Yuusyo Nakayama, Takeshi Shiono
- 1Pf012 Reactivity Control of CO₂-protected Diamines for One-component Epoxy Coatings
Kenya Katayama, Takeo Suga, Kenichi Oyaizu
- 1Pf014 Synthesis of Bi-containing polymers by thiol-ene polyaddition of distyryl bismuth monomer and secondary dithiols.
Kota Kumagai, Yoshimasa Matsumura, Kikuo Furukawa, Hideki Kohn, Miyuki Miyamoto, Yoshio Nishimura, Bungo Ochiai
- 1Pe015 Synthesis of heat-resistant polymers using rigid diol-type monomer derived from myo-inositol
Akane Morihiro, Atsushi Sudo
- 1Pf016 Intramolecular transfer of Pd catalyst on bromoarylenes consisting of three phenylenes connected with two amino groups or ether linkages and their application to unstoichiometric polycondensation
Daiki TAKAMATSU, Yoshihiro OHTA, Tsutomu YOKOZAWA

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A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 1Pe017 Synthesis and Properties of Novolac Resins with Sulfur-Containing Pendants as Transparent and High-Refractive-Index Polymers
Hiromichi Nishio, Seigo Watanabe, Kenichi Oyaizu
- 1Pf018 Preparation of functional polymer films using polysiloxane derivatives with ether moiety in both main and side chain moieties
Asuka Ichijo, Haruki Chiba, Taiki Iizima, Kazuma Tomioka, Tsukasa Ichikawa, Nobukatsu Nemoto
- 1Pe019 Development of conjugated polymers from quinacridone
Takashi Kitao, Yuki Tanaka, Tatsuya Kaido, Takashi Okubo, Atsushi Sudo
- 1Pf020 Synthesis of π -Conjugated Polymers Containing Various Substituted Bismole Units Through Post-elements-transformation of Organotitanium Polymers
Moeki Nakano, Ryoyu Hifumi, Ikuyoshi Tomita
- 1Pe021 Polycondensation using an elemental reaction of reversible carboxylic acid exchange by conjugate substitution reaction.
Sae Tezuka, Yasuhiro Kohsaka
- 1Pf022 Evaluation of polymerization mechanism from itaconic acid and cadaverine for bionylon formation
Hayate Tomino, Hongrong Yin, MOHAMMAD ASIF ALI, Kenji Takada, Tatsuo Kaneko
- 1Pe023 Functionalization of polyphenylene at both ends and synthesis of block copolymers by means of Suzuki-Miyaura coupling reaction after Kumada-Tamao catalyst-transfer condensation polymerization
Reo NITTO, Yu TOKITA, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 1Pf024 Synthesis of Element-block π -Conjugated Polymers Containing Fused Bithiophene Units
Yutaro Sugiyama, Ikuyoshi Tomita, Ryoyu Hifumi
- 1Pe025 Synthesis of aromatic polyesters using diphenolic acids bearing long alkyl chains
Sorato Omura, Yasuteru Mawatari
- 1Pf026 Synthesis and characterization of thermoplastic material with excellent thermal resistance
Mizuki Kugo, Makoto Higuchi, Tadamasu Nemoto

- 1Pf028 Synthesis and Optical Properties of Element-Block π -Conjugated Polymers with Quinoid Structures
Mayu Miyazawa, Ryoyu Hifumi, Ikuyoshi Tomita
- 1Pe029 Systematic synthesis and characterization of sugar-derived diol aromatic polyesters
Ema Baba, Runa Osaki, Hisaho Hashimoto, Takuya Isono, Toshifumi Satoh
- 1Pf030 Suzuki-Miyaura catalyst-transfer condensation polymerization for the synthesis of poly(diphenylsilane)
Yota KAWABATA, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 1Pe031 Synthesis and Characterization of Phenolic Polymers Using Tetraphenylethene Monomers
Takahiro Kakuta, Yui Hayashi, Tada-aki Yamagishi
- 1Pf032 Polyesters synthesis by dimerization of lignin derivatives and condensation with PEG
Kazuma Abe, Miyuki Oshimura, Tomohiro Hirano, Koichi Ute

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B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 1Pe033 The dielectric relaxation behavior of halobenzene in the epsilon-phase of syndiotactic polystyrene
Ryosai Inoue, Tadashi Inoue, Osamu Urakawa, Fumitoshi Kaneko
- 1Pf034 Crystallization temperature dependence of nano-oriented crystals of PA66 in elongational crystallization from the melt
Kiyoka OKADA, Mizuki KATAURA, Masaaki OHASHI, Hiroki IKEDA, Hiroyasu MASUNAGA, Masamichi HIKOSAKA
- 1Pe035 A study on the structural analysis of rubber materials by ultra-small angle scattering utilizing tender X-rays
Hideaki TAKAGI
- 1Pf036 Mechanical properties and crystallization dynamics of crystalline polymer poly-L-lactic acid at nanofilm thickness
Taisei Ishiyama, Keita Fujiki, Hong Zhang, Yosuke Okamura, Kaito Sasaki, Rio Kita, Naoki Shinyashiki
- 1Pe037 Improvement of modulus and strength of isotactic polypropylene using structural transition from mesomorphic to α -form crystal
Yuta Fukuda, Takumitsu Kida, Masayuki Yamaguchi
- 1Pf038 The change in USAXS image of PET fiber by the tensile deformation
Ren Tomisawa, Ryohei Fuse, Mutsuya Nagata, Toshifumi Ikaga, Kosuke Sugawara, KyoungHou Kim, Yutaka Ohkoshi, Kazuyuki Okada
- 1Pe039 An Effect of filler on physical properties of TEMPO-oxidized CNF based composite film
ryuta Morimoto, Masahiro Tsuchiya, Shuto Yamada
- 1Pf040 Crystal engineering of luminescent bridged distyrylbenzenes
Atsuya Kawamura, Yoshimichi Shimomura, Gen-ichi Konishi
- 1Pe041 Crystallization and higher-order structure of olefin-type polymers having bulky junction moieties
Aki Nishiyama, Hiroki Takeshita, Katsuhisa Tokumitsu, Kotohiro Nomura
- 1Pf042 Crystallization of polypropylene adding a novel nucleating agent
Riho Nishikawa, Shohei Iwasaki, Takahiro Inoue, Masayuki Yamaguchi, Takumitsu Kida
- 1Pe043 Higher-order structure of cyclic poly(oxyethylene)
Keigo Terakura, Hiroki Takeshita, Katsuhisa Tokumitsu, Yuhki Kanda, Yuhei Hosoi
- 1Pf044 Crystallization behavior of poly (lactic acid) under shear flow
Dai Hoang Giang Vo, Khunanya Janchai, Takumitsu Kida, Masayuki Yamaguchi

- 1Pe045 Effects of branched structure on crystallization rate and higher-order structure for poly(oxyethylene)
Tetsuya Kotani, Hiroki Takeshita, Katsuhisa Tokumitsu, Yuhki Kanda
- 1Pf046 Effect of annealing on transition behavior of monoclinic and intermediate phases prepared by compression of ultra-high molecular weight polyethylene drawn film
Sayoko Ogura, Masaki Kakiage, Hiroki Uehara, Takeshi Yamanobe
- 1Pe047 Changes in relaxation behavior and mechanical properties of polycarbonate by heat treatment below the glass transition temperature
Ayumi Hatano, Hiroki Takeshita, Katsuhisa Tokumitsu, Kosaku Tao
- 1Pf048 Local deformation behaviors of thermoplastic elastomers studied by transmission electron microscopy
Junsei Aoki, Daisuke Watanabe, Tomohiro Miyata, Hsao-Fang Wang, Hironori Marubayashi, Hiroshi Jinnai

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B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 1Pe049 Structure of poly(p-phenylene benzobisoxazole) single crystals and their structural changes by heat treatment
Ryota Kinoshita, Yo Hattori, Tetsuya Uchida
- 1Pf050 The effects of annealing on the fracture of PMMA
Daisuke Iwahara, Shotaro Nishitsuji, Hiroshi Ito, Masaru Ishikawa, Takashi Inoue, Mikihito Takenaka
- 1Pe051 Kinetics of density fluctuations during the early stage of crystallization in syndiotactic polypropylene V
Takashi Konishi, Tadokoro Daisuke, Fukao Koji, Yoshihisa Miyamoto
- 1Pf052 Effect of high-pressure hydrogen gas on crystalline polymers: in-situ observation by infrared spectroscopy
Fumitoshi Kaneko, Keiko Ohyama, Hirotada Fujiwara, Shin Nishimura
- 1Pe053 Primary nucleation of isotactic polystyrene spherulites by seeding process
Machi Teramoto, Masato Hashimoto, Tomoko Mizuguchi, Susumu Fujiwara
- 1Pf054 Solid-State NMR Studies of Molecular Dynamics in Graft Copolymers with Poly(*N*-Isopropylacrylamide)
Mai Sasaki, Shunpei Katagiri, Hisashi Honda
- 1Pe055 Crystal Structure Analysis of Poly(1,2-difluoroethylene)
Ryouichi Yano, Kohji Tashiro, Hiroyasu Masunaga, Daisuke Ota, Sono Sasaki

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 1Pf058 Synthesis and properties of novel dendritic chemically amplified resists
Yuta Tanaka, Masayuki Kessoku, Atsuto Ichikawa, Takeo Watanabe, Atsushi Seki, Ken'ichi Aoki
- 1Pe059 Development of water-soluble resist materials
Sayaka Miura, Rio Yamagishi, Makoto Kobayashi, Toru Amano, Satoshi Takei
- 1Pf060 Synthesis and property of UV-curable polysulfide by cationic polymerization of thiirane
Koichi Hirose, Ryota Tutui, Hiroto Kudo
- 1Pe061 Preparation and photo-alignment of block copolymers with photoresponsive liquid crystal polymers with random planar orientation
Shoto Suzuki, Yuya Ishizaki, Mitsuo Hara, Takahiro Seki, Shusaku Nagano

- 1Pf062 Preparation of Photoresponsive Side-Chain Liquid Crystalline Polymers with Different Out-of-Plane Orientation Properties and Application to Photoalignment of Microphase Separated Structure
Mahiro Shimada, Yuya Ishizaki, Mitsuo Hara, Takahiro Seki, Shusaku Nagano
- 1Pe063 Studies on Long-Lived Room Temperature Phosphorescence in Organic Dye Embedded Natural Polymers
Takuya KATO, Toshiyuki WATANABE, Kenro TOTANI, Tsuguyuki SAITO
- 1Pf064 Research on Low-Threshold Reverse Saturable Absorption in Heavy Metal Free Polymeric Materials
Naoya HAYASHI, Toshiyuki WATANABE, Kenro TOTANI
- 1Pe065 Fabrication of polymer gel switchable silver mirror devices
Ryo Kawara, Atsushi Aoki
- 1Pf066 Investigation of lightfastness of polymer liquid crystal films with N-benzylideneaniline and benzoic acid in the side chain by hydrolysis.
Gento Nakajima, Ayaka Sakai, Mizuho Kondo, Tomoyuki Sasaki, Moritsugu Sakamoto, Hiroshi Ono, Nobuhiro Kawatsuki
- 1Pe067 Effects of tail chain length of diacetylenediamides on thermal activation of their topochemical photopolymerization
Yuya Kondo, Ryohei Dobashi, Nobuyuki Tamaoki, Atsushi Seki, Ken'ichi Aoki
- 1Pf068 Mechanism and Efficiency of the Photosensitization by Near IR Sensitive Dyes
Mayu Masuda, Atsushi Shiraishi, Kohei Iritani, Ayumi Kobayashi, Takashi Yamashita
- 1Pe069 Whispering Gallery Mode Resonators of Fluorescent Organic-Inorganic Microspheres
Takumi Matsuo, Shotaro Hayashi
- 1Pf070 Birefringence control and application to diffraction grating of photoalignable liquid crystalline polymeric film with N-benzylideneaniline
Ayaka Sakai, Mizuho Kondo, Tomoyuki Sasaki, Moritsugu Sakamoto, Hiroshi Ono, Nobuhiro Kawatsuki
- 1Pe071 A new synthetic route for the production of a thiophene-based methine-bridged type conjugated polymer
Mai Ichikawa, Hiromasa Goto

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F. INDUSTRIAL POLYMERS AND TECHNOLOGY

- 1Pe073 Damage Evaluation of epoxy resin with phase separation morphology by high-pressure Hydrogen exposure.
tatsuru Nishikawa, Hiroaki Ono, Hirotada Fujiwara, Shin Nishimura
- 1Pf074 Influence of the high-pressure hydrogen exposure protocol on destruction of resin materials
Hirotada Fujiwara, Hiroaki Ono, Mitsuo Shibutani, Shin Nishimura
- 1Pe075 Influence of volume change caused by highly pressurized hydrogen on destruction in high-pressure hydrogen sealing O-rings
Hirotada Fujiwara, Hiroaki Ono, Shin Nishimura
- 1Pf076 Prediction of the volume inflation of rubber materials after high-pressure hydrogen exposure using machine learning
Hiroaki Ono, Hirotada Fujiwara, Shin Nishimura
- 1Pe077 Establishment of high-throughput glass transition temperature measurement method for searching for new elastomer materials by materials informatics
Satoru Baba, Hiroaki Ono, Hirotada Fujiwara, Shin Nishimura
- 1Pf078 Influence of cross-linking density and length of NR / BR rubber on low-temperature crystallinity

- Toshimi Nakaya, Joji Ohshita, Kazuma Kobayashi, Yuya Miyake, Keiko Otake, Hiroyuki Kai
- 1Pe079 Application of polymeric materials to control adsorption and non-adsorption of pollen
Yuna Yabe, Shinpei Yamamoto, Yoshiyuki Saruwatari, Tadashi Nakaji-Hirabayashi
- 1Pf080 Degradation evaluation of flame retardant ABS by oxidation onset temperature (IOT)
Tokio KIKUCHI, Akihiro OISHI, Makoto KUDO, Kiichi GOTO, Atsuko SUINO, Noriyuki SATO, Soichiro MURAKAMI, Hideaki HAGIHARA
- 1Pe081 Effect of a high-pressure press on the strength and the morphology of PP
Yukino Ito, Shotaro Nishitsuji, Hironari Sano, Takashi Inoue, Hiroshi Ito
- 1Pf082 Development of gas permeable mold for fine molding
Rio Yamagishi, Sayaka Miura, Naoto Sugino, Takao Kameda, Yuki Kawano, Yoshiyuki Yokoyama, Satoshi Takei
- 1Pe083 Formation Mechanism of Cylindrical Particles using Stirring Method and New Fabrication Method of Cylindrical Particles
Kota Takemura, Miku Onishi, Yuya Takeuchi, Toyoko Suzuki, Hideto Minami
- 1Pf084 Effect of T-die film molding process with molten resin reservoir on mechanical properties and lamellar structure of linear low-density polyethylene
Akiyoshi Kuramochi, Patchiya Phanthong, Shigeru Yao
- 1Pe085 Magnetically Tunable Vibration Transmissibility for Magneto-Responsive Elastomers Consisting of Magnetic and Nonmagnetic Particles
Kejun Chen, Kazushi Nagashima, Shuya Takahashi, Toshihiko Komatsuzaki, Mika Kawai, Tetsu Mitsumata
- 1Pf086 Fabrication and characterization of carbon nanotube reinforced polyvinyl alcohol / silica aerogel composite thermal insulation materials
Kyoya Tsujino, Tomonaga Ueno
- 1Pe087 Friction performance on plant-oil infused surfaces
Kengo Manabe, Miki Nakano, Yasuo Norikane
- 1Pf088 Effect of Binary Metal Cations on Hot Tack Strength of Ionomer
Tatsuya Sehata, Tomonori Koda, Hiroko Yano, Taichi Nishio, Motoaki Isokawa, Akihiro Nishioka
- 1Pe089 Solution properties of phosphorylated ethylene-vinyl alcohol copolymer and effect of metal ion addition.
Muneharu Kurosaki, Yukihiro Kishimoto, Takumi Okihara
- 1Pf090 Study on the Fracture Toughness of Thermosetting Epoxy Alloys
Jonathon Tanks, Kimiyoshi Naito, Kenji Tamura
- 1Pe091 Surface modification of polymers and control of restoration by temperature
Masashi NITANI

E. POLYMERS AND ENVIRONMENT

- 1Pe093 Extraction of fibers contained in the mucus of hagfish
Shunsuke Kondo, Jin Gong
- 1Pf094 Synthesis of Poly (lactic acid) Derivatives by Controlled Incorporation of Biodegradable Structures and Investigation of Their Seawater Biodegradability
Chigen Kinoshita, Takeshi Shiono, Yuusyou Nakayama, Ryo Tanaka, Norioki Kawasaki, Naoko Yamano, Atsuyoshi Nakayama, Shodai Hino
- 1Pe095 Development of photo-degradable network polymers after photo-polymerization
Hideki TACHI
- 1Pf096 Preparation of the size-controlled spherical and water-absorbent hydrogels from cellulose derivative
Sayaka Fujita, Toshiaki Tazawa, Hiroyuki Kono

E. POLYMERS AND ENVIRONMENT

- 1Pe097 Study on recovery of metal ions from chelated fibers substituted with amidinourea
Shoma Yamada, Satomi Tanaka
- 1Pf098 Synthesis and application of Ester derivatives of β -2,6-fructan
Seizo Okada, Satoshi Kimura, Kenji Tajima, Tadahisa Iwata
- 1Pe099 Internal swelling and anisotropic cleavage of crystal suggest planar structure of regenerated cellulose.
Akari Okugawa, Yoshiaki Yuguchi, Chihiro Yamane
- 1Pf100 Preparation of Novel Biodegradable Materials by Graft Polymerization of PCL into Polysaccharide Aero Gels
Yu Fujino, Mari Furukawa, Toru Hoshi, Takao Aoyagi
- 1Pe101 Composition and characterization of bamboo cellulose nanofibers with resins
Ryotaro Takayama, Sumika Hirota, Taro Kinumoto, Masaya Moriyama
- 1Pf102 Development and improvement of biodegradable plastics using the polypropylene
Kensuke Miyazaki, Takashi Yoshida
- 1Pe103 Chemical Structural Analysis of Hydrolyzed Bamboo Lignins and Synthesis of Their Polymer Materials
Koki Yoshioka, Phi Long Nguyen, Rion Ito, Taro Kinumoto, Masaya Moriyama
- 1Pf104 Reaction characteristics of a recombinant laccase from Escherichia coli
Tomohiro HIRAISHI, Hideki ABE
- 1Pe105 Correlation between Interactions and Mechanical properties of Polymer Blends of lignoanisole / polystyrene blend
Kai Isozaki, Mitsuru Aoyagi
- 1Pf106 Functionality of Cascade-recycled Lignophenol as Photo-sensitizers for TiO₂ Photo-electrode
Yuji Haraguchi, Mitsuru Aoyagi
- 1Pe107 Characterization of the genes are involved in the natural rubber degradation in natural rubber-utilizing actinomycete
Namiko Gibu, Natsuhei Suzuki, Daisuke Kasai
- 1Pf108 Establishment of polyhydroxyalkanoate production system by natural rubber-utilizing bacteria
Masaki Tamamura, Namiko Gibu, Daisuke Kasai
- 1Pe109 Seawater biodegradability of polyrotaxane elastomers with controlled crosslink density and analysis of degradation mechanism
Shota Ando, Kohzo Ito
- 1Pf110 Simplified synthesis and functionalization of superabsorbent polymers using renewable resources
Hibiki Sakaue, Tsukasa Sorimachi, Yoshiaki Shibano, Mari Miyata
- 1Pf112 Cytotoxicity evaluation of acrylate / methacrylate polymer particles and their by-products
Shoya Ono, Hayato Suzuki, Haruka Minato, Daisuke Suzuki, Chikara Ohtsuki, Kazushi Fujimoto

E. POLYMERS AND ENVIRONMENT

- 1Pe113 Chemical recycling of bio-based polycarbonates to fertilizers by the degradation reaction with ammonia
Takumi Abe, Daisuke Aoki, Hideyuki Otsuka
- 1Pf114 Selective accumulation of metal ion by gellan gum-inorganic composite material
Yoshihiro Kametani, Masanori Yamada
- 1Pe115 Structure and thermal properties of PET-blended tea leaf Bio-Coke
Takase Kishimoto, Tomoya Ukai, Mika Sasai, Yoshiki Tanioka, Kohei Shiraiishi, Toshimi Nakaya, Joji Ohshita, Tamio Ida
- 1Pf116 Modification of the surface properties of polystyrene by soil fungi
Takase Kishimoto, Mei Ohnishi, Mika Sasai, Tomoya Ukai, Tomohiro Ogawa, Kohei Shiraiishi
- 1Pe117 Investigation of melanin degradation methods toward resource recycling
Takumi Morita, Keiki Kishikawa, Michinari Kohri
- 1Pf118 Pore size evaluation of porous coordination polymer by positron beam method
Hiroyuki Hosomi, Shigeru Yoshimoto
- 1Pe119 Biological activity of phenolated lignin controlled molecular weight by neighbor group participation
Minami Masaki, Masamitsu Funaoka, Takashi Watanabe, Keigo Mikame
- 1Pf120 An effect of frequency of oscillatory stress on decomposition process of the Epoxy resin for CFRP with oscillatory stress
Kota MAKIMURA, Masahiko TAKAHIRO
- 1Pe121 Deproteinization Process of Natural Rubber Latex using Microfiltration
Itsuha Kuga, Kohaku Kubo, Yoshino Tsuruhashi, Mana Osada, Yoko Aoyama

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Tue. Sep 6

Presentation Time

<a = 10:20~11:00>

<b = 11:00~11:40>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 2Pa001 Polymerization of Isoprene and Myrcene with Group 4 ansa-Indenylamido Complexes
Kei Nishii, Tasuku Tsurumi, Ryouta Sato, Yasuyuki Ueda, Shun Ohta, Tomoyuki Toda
- 2Pb002 Addition polymerization of norbornene derivatives catalyzed by $\text{Ni}(\text{C}_6\text{F}_5)_2(\text{SbPh}_3)_2$
Kazuha Izuma, Masato Suzuki, Shinichi Matsuoka
- 2Pa003 Synthesis of poly[(lactic acid)-*alt*-(ethylene glycol)] by ring-opening polymerization and its depolymerization
Kohei Yamamoto, Nobuyoshi Nomura
- 2Pb004 Synthesis of isoselective poly(lactic acid) via the ring-opening polymerization of racemic lactic acid derivatives bearing acetone as a leaving compound
Yusuke Yagi, Kazuho Sakai, Nobuyoshi Nomura
- 2Pa005 Polymerization of Conjugated Dienes and Styrene by Bis(benzimidazole)Nickel Dichloride Catalyst Systems
Kakeru Tsukahara, Shota Miyata, Yasuyuki Ueda, Tomoyuki Toda, Shun Ohta, Kei Nishii
- 2Pb006 Controlled Copolymerization by Metal Complexes [93] Alternating Copolymerization of Carbon Dioxide with Epoxides Having Various Branched Side Groups and Properties of Produced Copolymers
Ko Okuda, Ai Fuwa, Masayoshi Honda, Hiroshi Sugimoto
- 2Pa007 Multimetal-Catalyzed One-Stop Chain Transfer Oligomerization of Ethylene/Propylene Directed Toward Synthetic Lubricants

- Fuyuki Aida, Kazuo Tagawa, Tetsuo Honma, Yuki Kitayama, Hikaru Takaya
- 2Pb008 Coordination polymerization of norbornadiene dimer by Ti catalyst and post-polymerization modifications
Yusuke Iwata, Shin-ichi Matsuoka, Takeshi Shiono, Masato Suzuki
- 2Pa009 Macromolecular Helicity Induction and Static Helicity Memory of Poly(biphenylacetylene)s Using Helical Polymers as Chiral Inducers
Mayu Sumino, Shogo Okuda, Hinako Okutsu, Masaki Hattori, Ryoma Ishidate, Tomoyuki Ikai, Eiji Yashima
- 2Pb010 Synthesis and physical properties of norbornene-based polymers with spirofluorene moiety in side chain.
Saki Ishii, Yoshiya Ota, Shin-ichi Matsuoka, Masato Suzuki
- 2Pa011 Controlled Copolymerization by Metal Complexes [94] Comparison of Aliphatic and Aromatic Side Groups Affecting on Monomer Reactivity and Copolymer Properties in Carbon Dioxide / Epoxide Alternating Copolymerization
Minayo Osanai, Ai Fuwa, Masayoshi Honda, Hiroshi Sugimoto
- 2Pb012 Ring-opening metathesis polymerization of the ester-functionalized polycyclic cyclobutene derivatives and thermal properties
Yuta Asano, Shin-ichi Matsuoka, Masato Suzuki
- 2Pa013 Properties of Tri-sec-butylborane as an Attractive Initiator of Radical Polymerization
Shuichi Kanno

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 2Pb014 Mechanism research of polymer surface modification method with photo-activated chlorine dioxide
Keita Yamamoto, Haruyasu Asahara, Tsuyoshi Inoue
- 2Pa015 Dynamic Polymer Brush in Aqueous Salt Solution: Structure Analysis Using Neutron Reflectivity
Masayuki Saito, Norifumi Yamada, Kohzo Ito, Hideaki Yokoyama
- 2Pb016 Interaction at Cu/epoxy interface by sum-frequency generation spectroscopy
Takayuki Miyamae

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B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 2Pa017 Fluorescence microscope observation of micro-droplets transformed and UV-cured through a flat silica mold
Takeru YOSHIDA, Akiko ONUMA, Hiromasa NIINOMI, Masaru NAKAGAWA
- 2Pb018 Gel Network Amplified Liquid Adsorption on Mica Surface Probed by Confocal Raman Microscopy
Hiroki Aizawa, Sora Kimura, Masahito Sano
- 2Pa019 Structural analysis of phosphorus-containing polymer thin films utilizing tender X-rays and neutron reflectometry
Hiroki Kobayashi, Katsuhiko Yamamoto
- 2Pb020 Effect of polymer segregation behavior on porous membrane on film strength
Hiroto Yamada
- 2Pa021 Properties of surface layer of flexible polymer substrates modified by ultraviolet (UV) light-irradiation for their application in electroless deposition
Toshiyuki Tamai, Mitsuru Watanabe, Yasuyuki Kobayashi, Jyunpei Kobata, Rie Kakehashi, Yoshio Nakahara, Setsuko Yajima

- 2Pb022 Analysis of Deformation Behavior of Hydrogenated Styrenic Thermoplastic Elastomers Using Nano-Touch Atomic Force Microscopy
Airi Sato, Makiko Ito, Liang Xiaobin, Ken Nakajima
- 2Pa023 Correlation between Interfacial Properties and Stress Transfer of Polyvinyl Alcohol/Nanosilicon Nanocomposites
Kenshin Yamada, Takuma Okazaki, Hiroshi Sugimoto, Takuya Matsumoto, Minoru Fujii, Takashi Nishino
- 2Pb024 Observation of mutual diffusion behavior of double-layered miscible polymers in ultrathin films
Katsuhiko Yamamoto, Tetsuya Ito
- 2Pa025 Dependence of grain size distribution of vapor-deposited gold particles on the surface of polystyrene spin-cast film on molecular weight
Erina Kono, Yuichiro Shimzu, Masashi Sugimoto, Yudai Isayama, Satoshi Irie, Takashi Sasaki
- 2Pb026 Nanoscale Viscoelasticity Measurement by Nanorheological Atomic Force Microscopy with Improved Quantitativeness
Yasuharu Kashimori, Makiko Ito, Xiaobin Liang, Ken Nakajima
- 2Pa027 Force curve analysis in atomic force microscopy and its application to machine learning
Kotaro Osako, Makiko Ito, Xiaobin Liang, Ken Nakajima
- 2Pb028 Nanomechanical Study on Perfluorinated Electrolyte Thin Films for Fuel Cells
Hiroyuki Watabe, Hung K. Nguyen, Xiaobin Liang, Ken Nakajima
- 2Pa029 Effects of alkyl chains and metal coordination on self-assembled structures of curcumin derivatives at the solid/liquid interface
Suyi Liu, Yoshihiro Kikkawa, Yasuo Norikane
- 2Pb030 Helical molecular orientation by polarization plane rotation during polarized -UV-assisted vapor deposition polymerization of aromatic polyazomethine thin film
Seika Murashita, Yan Tan, Ryosuke Matsubara, Atsushi Kubono
- 2Pa031 Temperature Dependency of Polymer Surface Motions using Diffracted X-ray Blinking
Rena Inamasu, Hiroki Yamaguchi, Tatsuya Arai, Kazuhiro Mio, Yuji Sasaki
- 2Pb032 Study for Sub-micro structure analysis in polymer materials using Optical Photo Thermal IR Spectroscopy
Hanae Kobayashi, Naoki Baden, Norio Urayama

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B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 2Pa033 Evaluation of Surface Segregation and Functional Properties of (Bottlebrush Polystyrene/Linear Polystyrene) Blend Films
Anri Nishimura, Yoshihiro Yamauchi, Sadaki Samitsu, Yoshihisa Fujii, Naoya Torikai
- 2Pb034 Effects of substituent on the adsorption kinetics of methacrylic acid ester polymers studied by using chip nano-calorimetry
Tomoya Watanabe, Minato Isihara, Takashi Sasaki
- 2Pa035 Effects of Solvent for Spin-Coating on Interfacial Segregation of a Diblock Copolymer in a Polystyrene Thin Film
Naoki Sugiura, Yoshihisa Fujii, Naoya Torikai
- 2Pb036 Dynamic Wetting Evaluation of Bubbles in Water Atmospheres on Riblet Biomimetic Surfaces
Honoka Sugiyama, Daisuke Ishii, Maria Inukai
- 2Pa037 Rheological and Rheo-optical Behaviors of nanocellulose suspensions containing unfibrillated fibers
Yoshifumi Yamagata, Shingo Niinobe, Yuki Nakano, Keisuke Miyamoto

- 2Pb038 Synchronized Oscillation of Carbon Nanotubes Dispersed in Solution
Hayato Ono,Rintarou Mori,Masahito Sano
- 2Pa039 Application of Thermal Noise Analysis in Viscoelasticity Measurements of Single Polymer Chains Using Atomic Force Microscopy
Masato Mori,Xiaobin Liang,Ken Nakajima
- 2Pb040 Study on polymer particles using molecular dynamics calculations II
Shotaro Yoshida,Kazushi Fujimoto,Chikara Ohtsuki
- 2Pa041 Dynamic heterogeneity in diffusion of ring polymers
Shota Goto,Kang Kim,Nobuyuki Matubayasi
- 2Pb042 Study on Physical Properties of Single Polyethylene Glycol Chain by Nanofishing
Shunichi Nomura,Masato Mori,Xiaobin Liang,Ken Nakajima
- 2Pa043 Study on temperature dependence of elastic modulus of single polystyrene chain by nanofishing
Satoshi Yasui,Shunichi Nomura,Masato Mori,Xiaobin Lian,Ken Nakajima
- 2Pb044 Preparation of colloidal dispersion solutions with cross-linked polystyrene particles
souma ikuta,kazuishi satou,tousirou koudou,kazuhiro miyamoto,makoto sakaga,yuusuke ueta,isao matumoto
- 2Pa045 Viscosity and Drug Release Behavior of Mixed Solution of Xanthan Gum and Xyloglucan
Kunihiko Itoh,Yuki Katakura,Tetsuya Shimoyama,Michiya Kobayashi
- 2Pb046 Uniaxial elongation simulations of main-chain and side-chain liquid crystalline elastomers
Kazuaki Takahashi
- 2Pa047 Relationship between crystalline structure and rheological properties of plasticized cellulose acetate
Takeyoshi Kimura,Takumitsu Kida,Masayuki Yamaguchi

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C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 2Pa049 Prospects of Blending Strategy for Bringing Self-Healing Properties in Commodity Plastics
Yuta Fujisawa,Atsushi Asano,Yiling Nan,Yu Yanagisawa,Yoshimitsu Itoh,Takuzo Aida
- 2Pb050 Structural Control of Rattle-Shaped Microcapsules Using Liquid-Solid Phase Transition in Droplets
Yuko Sakai,Takaichi Watanabe,Tsutomu Ono
- 2Pa051 Creation of a composite material composed of molecular gel and inorganic semiconductor particles
Chie Nitta,Yutaka Ohsedo
- 2Pb052 Synthesis and evaluation of polypyrrole using plasma
Kazuki Yanagida,Hiromasa Goto
- 2Pa053 Electrochemical polymerization of quarter thiophene in helical liquid crystal medium, and optical properties
Kazuki Yanagida,Ryo Miyashita,Hiromasa Goto
- 2Pb056 Low-modulus Polyimides (19). Improvement of Adhesion Strength with Copper Foil
Junichi ISHII,Notoa ABE,Hayate OSHIO,Kota SUZUKI,Masatoshi HASEGAWA
- 2Pa057 Organo-Soluble Low CTE Polyimides (13). Applications as Cover Layer Materials in Flexible Printed Circuit Boards
Masaki Hayashi,Junichi Ishii,Masatoshi Hasegawa
- 2Pb058 Development of Low-CTE Polyimides for Flexible Printed Circuit Boards. Substituent Effects of Ester-containing Diamines

Naoya Nakano, Junichi Ishii, Masatoshi Hasegawa

- 2Pa059 Organo-Soluble Low CTE Polyimides (14). Effects of Ether-linked Monomers
Shinya Ichikawa, Naoki Yokoyama, Junichi Ishii, Masatoshi Hasegawa
- 2Pb060 Transparent Thermoplastic Polyimides (11). Thermal and UV rays-stability
Hiroto Kawamorita, Naomi Shindo, Junichi Ishii, Masatoshi Hasegawa
- 2Pa061 Performance improvement of polybenzoxazine derived from an oligonuclear phenolic compound by molecular design and alloying with other components
Taichi Shibatsuka, Kouya Ishii, Takehiro Kawauchi
- 2Pb062 Synthesis of high-molecular-weight benzoxazines from various combinations of benzoxazine-containing dialdehydes and diamines, and thermal and mechanical properties of the cured products
Kanako Yoshimoto, Sho Morinaga, Takehiro Kawauchi
- 2Pa063 Microwave-Assisted Synthesis of High-Molecular-Weight Benzoxazines from Aminophenols
Mizuki Okabe, Uryou Tin, Takehiro Kawauchi
- 2Pb064 Elucidation of inner-structure changes in alkali-treated wood and relationship between impregnated liquids and compression behaviors
Rika Takenaka, Daisuke Ishii
- 2Pa065 Flame Retardancy of Polypropylene by Controlled Pyrolysis and Addition of Halogen Compounds
Yuya Nakanishi, Erika Nakashima, Tomonaga Ueno
- 2Pb066 Polybenzoxazoles with Low Coefficient of Thermal Expansion (6). Effects of Ester-containing Bis(o-aminophenol) Monomers
Juan Nakazono, Junichi Ishii, Masatoshi Hasegawa
- 2Pa067 Polybenzoxazoles with Low Coefficient of Thermal Expansion (7). Effects of Ether-containing Monomers
Tsubasa Sato, Junichi Ishii, Masatoshi Hasegawa, Kohei Kikuchi
- 2Pb068 Polybenzoxazoles with Low Coefficient of Thermal Expansion (8). Modification Effects of Unsymmetrical Monomers
Yudai Hayashi, Junichi Ishii, Masatoshi Hasegawa
- 2Pa069 Polybenzoxazoles with Low Coefficient of Thermal Expansion (9). Effects of Fluorinated Monomers.
Kakeru Onodera, Kohei Kikuchi, Junichi Ishii, Masatoshi Hasegawa
- 2Pb070 Modified Polyimides from Obtained from Tetracarboxylic Dianhydrides Synthesized using Novel Tricarboxylic Acid
Takuya Ito, Junichi Ishii, Masatoshi Hasegawa
- 2Pa071 Poly(ester imide)s with Low CTE and Low Water Absorption (47). Effects of Ester-containing Tetracarboxylic Dianhydride Structures on the Dielectric Properties at High Frequencies
Taro Fukuda, Junichi Ishii, Masatoshi Hasegawa
- 2Pb072 Modified Polyimides Containing Benzazole Units (19). Effects of Monomers with Intramolecular Ring Formation Ability
Yuto Ichiba, Yuji Sakaguchi, Junichi Ishii, Masatoshi Hasegawa

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C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 2Pa073 Development of Photo-curable Resin for 3D Printing Using Acrylic Monomers with Bisphenol Skeleton
Kotaro Kobayashi, Hiroaki Okamoto, Nobuaki Takane, Daisuke Aoki, Tatsuo Taniguchi, Takashi Karatsu

- 2Pb074 High performance of CNT/CMC ultralightweight sound-absorbing materials by surface treatment
Ryoya Oda, Tomonaga Ueno
- 2Pa075 Toughening of biodegradable plastics by adding polyrotaxane
Qingwen Zhang, Yuhei Kobayashi, Shota Ando, Hideaki Yokoyama, Kohzo Ito
- 2Pb076 Flame retardancy of lignocellulose nanofiber and its application to water-soluble urethane
Daisuke Todome, Noboru Osaka, Kenji Okada, Tsutomu Inokuchi
- 2Pa077 Modified Polyimides Derived from Novel Ester-containing Diamines. Strategies to Overcome the Trade-off Between Low CTE and Heat-laminating Processability
Keisuke Minagawa, Junichi Ishii, Masatoshi Hasegawa, Toshiyuki Goshima, Soe Win Maw
- 2Pb078 UV-light Lift Off of Polyimide Films
Natsumi Takagi, Yuta Shimode, Junichi Ishii, Masatoshi Hasegawa
- 2Pa079 Low-CTE Colorless Polyimides Suitable for Temporary Adhesion Technique (PITAT)
Kanata Nakadai, Junichi Ishii, Masatoshi Hasegawa, Tetsuo Okuyama, Kaya Tokuda, Hiroyuki Wakui, Naoki Watanabe, Kota Kitamura
- 2Pb080 Ultralow-CTE Colorless Polyimides Obtained by Modified One-pot Method
Takehiro Shinoda, Junichi Ishii, Masatoshi Hasegawa
- 2Pa081 Colorless Polyimides Derived from Novel Spiro-type Monomers (5). Strategies to Overcome the Trade-off between Low CTE and Low Birefringence
Toya Ikuma, Yoshihiko Terada, Junichi Ishii, Masatoshi Hasegawa
- 2Pb082 Solution-processable Colorless Polyimides Obtained from Bisnorbornanetetracarboxylic Dianhydride (7). Influence of its steric structure on the CTE
Masatoshi Hasegawa, Takuya Miyama, Junichi Ishii, Daisuke Watanabe
- 2Pa085 Li salt-concentrated organogel prepared in acetonitrile-based solutions and its application to Li-ion capacitors
Ryansu Sai, Jihae Han, Kenta Fujii
- 2Pb086 Preparation and Characterization of Solid Electrolytes Using Ion-Gels for Na-ion Batteries (II) - Effects of zwitterions on various properties -
Masaya Sato, Yuko Takeoka, Masahiro Rikukawa, Masahiro Fujita
- 2Pa087 Ionic thermoelectric effect using inclusion and dissociation behavior of beta-cyclodextrin polymer
Yuki Kabaya, Masatoshi Kidowaki, Takeshi Shimomura
- 2Pb088 Polymer Electrolyte Membranes filled with ionic liquid coated nanoparticles for low humidity operation of Polymer Electrolyte fuel cells
haruki Nakazaki, keisuke Tabata, Toshihiko Arita, Akito Masuhara
- 2Pa089 Optimization of Fabrication Process for Polymer Nanofiber Composite Membrane to Improve Proton-Exchange Membrane Properties
Akari Tatsukawa, Toyotaka Nakae, Hiroyoshi Kawakami
- 2Pb090 High chemical durability by incorporation of high gas barrier interlayer into thin membranes for PEFC application
Zulfi Al Rasyid Gautama, Yasir Arafat Hutapea, Stephen M. Lyth, Kazunari Sasaki, Masamichi Nishihara
- 2Pa091 Stretchable Li₄Ti₅O₁₂ electrode using liquid metal-ionic liquid composite gels
Natsuka Usami, Juri Asada, Hiroki Ota, Hisashi Kokubo, Kaoru Dokko, Masayoshi Watanabe, Kazuhide Ueno
- 2Pb092 Synthesis and Characterization of Organometallic Complexes with π -Conjugated Poly(carbon monosulfide)s as a Ligand Based on Electrolytic Reaction of Carbon Disulfides
Yusuke Tokuchi, Riku Kikuchi, Akihiko Kanazawa

- 2Pa093 Electrolytic Synthesis of π -Conjugated Poly(carbon monosulfide)s Using Lithium Salts as a Supporting Electrolyte and Evaluation of Their Electrical Properties
Riku Kikuchi, Yusuke Tokuchi, Nozomi Tauchi, Akihiko Kanazawa
- 2Pb094 Preparation of Sulfur-Polyviologen Hybrid Electrodes for Fast-chargeable Lithium Secondary Batteries
Koutarou Ishida, Kan Hatakeyama, Kenichi Oyaizu
- 2Pa095 Synthesis and Conductive Properties of Solid Polymer Electrolytes Consisting of Charge-Transfer Complexes of Poly(phenylene sulfide) Derivatives
Hiroki Adachi, Kan Hatakeyama, Kenichi Oyaizu
- 2Pb096 Refined Sulfonated Octaphenyl Polyhedral Silsesquioxane and Sulfonated Polyphenylsulfone Composite: Preparation and Evaluation of Its Crosslinked Proton Exchange Membrane
Fatin Bazilah Binti Fauzi, Je-Deok Kim

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C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 2Pa097 A Relationship between Physicochemical and Structural Properties on the Homogeneous Polymer Network Solid Electrolytes
Aran Kato, Kenta Fujii
- 2Pb098 Ion-conductive properties of polymer electrolytes based on polyurethanes having ether carbonate chains
Yuta Fujiyoshi, Yoichi Tominaga
- 2Pa099 Application of gel electrolyte using polyglycerol-based acrylate for aluminum electrolytic capacitors.
Shuhei Matsushita, Sachika Hirazawa, Junichi Wada, Ryoji Yasuda
- 2Pb100 Molecular dynamics calculations of coordination structure and hopping conduction in PEO-based electrolytes with succinonitrile
Tatsuya Shiraishi, Takato Ishida, Yuya Doi, Takashi Uneyama, Yuichi Masubuchi
- 2Pa101 Improvement of Electrode/Electrolyte Interface Using Crosslinked Carbonate-based Copolymer for Solid-state Lithium-Ion Battery
Nantapat SOONTORNON, Yuto KIMATA, Yoichi TOMINAGA

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 2Pa103 Preparation of chitosan-alginate gel containing silver nanoparticles
Takuma Oe, Hiroshi Tamura, Tetsuya Furuike
- 2Pb104 Preparation of chitosan gel using intermolecular cross-linking reaction
Kazuki Horita, Hiroshi Tamura, Tetsuya Furuike
- 2Pa105 Preparation of chondroitin sulfate/chitosan-coated bacterial cellulose
Tomoki Okada, Ryuya Wada, Sakura Wada, Hiroshi Tamura, Tetsuya Furuike
- 2Pb106 Evaluation of the physical properties of crosslinked polysaccharides
Tomohisa Suzuki, Olaf Karthaus
- 2Pa107 Development of nucleic acid delivery system with hyaluronic acid for inducing antigen presentation in cancer cells
Quoc Cuong Hoang, Fuyu Yamamoto, Shinichi Mochizuki
- 2Pb108 Development of antioxidant delivery system using renatured beta-1,3-1,6-glucan nanoparticles
Kazuya Koumoto, Nanako Doi
- 2Pa109 Preparation water-soluble powders composed of beta-1,3-1,6-glucan and the inclusion complex nanoparticles

Kazuya Koumoto, Ayumu Kodama, Nanako Doi, Rika Unesaki, Shiho Morita, Haruka Sugino

- 2Pb110 Morphology control gold nanoparticles by functional supergiant polysaccharide sacran
Pruetsakorn Saosamniang, Maiko Okajima, Kenji Takada, Tatsuo Kaneko, Maninder Singh
- 2Pa111 Preparation of chitosan beads as pH-responsive protein carriers and evaluation of their release behavior.
Satoshi Tanimoto, Yuriko Ishiba, Hikaru Ohba, Shokyoku Kanaoka
- 2Pb112 Evaluation of Molecular Permeability of Polysaccharide Composite Films Imprinted with Porphyrin Derivatives
Tamao Yamamoto, Takuya Sagawa, Mineo Hashizume

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D. BIOPOLYMERS AND BIORELATED POLYMERS

- 2Pa113 Preparation of Polysaccharide Composite Films Containing Cyclodextrin-Modified Chitosan and Evaluation of Their Ability to Load Hydrophobic Molecules
Aoi Kashiwabara, Takuya Sagawa, Mineo Hashizume
- 2Pb114 Synthesis of Thermoplastic Chitin Derivatives by Grafting of Polyesters
Aoi Nakashima, Kazuya Yamamoto, Jun-ichi Kadokawa
- 2Pa115 Preparation of Network Chitin/Chitosan Gels Using Functionalized Maltooligosaccharides at Both Ends as Cross-linker.
Aina Nakamichi, Kazuya Yamamoto, Jun-ichi Kadokawa
- 2Pb116 Antimicrobial properties of CS/TOCN/AgNP composite fiber via thermal reduction and ascorbic acid reduction
Duangkamol Dechojarassri, Kazuki Komatsu, Atsuhito Sawara, Tetsuya Furuike, Hiroshi Tamura
- 2Pa117 Complexation of amphiphilic polymers into biomembranes and evaluation of their function as biomolecular anchors
Yudai Sadanami, Ryosuke Mizuta, Yoshihiro Sasaki, Shin-ichi Sawada, Kazunari Akiyoshi
- 2Pb118 Synthesis of glycosaminoglycan mimic glycopolymers through the alternating RAFT copolymerization of styrene and maleimide derivatives
Ayane Sunaga, Jin Motoyanagi, Masahiko Minoda
- 2Pa119 Synthesis of cyclic glycopolymers using galactose and evaluation of their interaction with target proteins
WENKANG JIN, MASANORI NAGAO, YOSHIKO MIURA
- 2Pb120 Evaluation of thermal denaturation of proteins and control of nanogel complexation by Pulse Modulated Microwave
Yunting Ma, Yoshihiro Sasaki, Hikaru Takaya, Shin-ichi Sawada, Kazunari Akiyoshi
- 2Pa121 Drug delivery mechanism of complex of phosphorylated pullulan and antibiotic surfactant
Kaho Asano, Takumi Okihara
- 2Pb122 Synthesis of carbohydrate-immobilized CMC gel particles and molecular recognition ability
Makoto Ogata, Remi Anazawa, Lisa Connolly, Mitsuki Asano, Ryota Kishimoto, Hiroyuki Kono
- 2Pa123 Synthesis of trehalose polymers for application as cryoprotective agents
Yusuke Kato, Robin Rajan, Kazuaki Matsumura
- 2Pb124 Synthesis of Star Glycopolymers with Sialic Acid and Inflammation ability study
Haruka Shiomitsu, Takato Ishida, Masanori Nagao, Hirohiko Ise, Yoshiko Miura

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

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 2Pc001 Construction of Covalent Organic Frameworks Consisting of Heptazine Derivatives
Takashi Kono, Hiroki Kobayashi, Shinobu Uemura
- 2Pd002 Stirring-induced macroscopic orientation of photo-degradable azobenzene-incorporated supramolecular polymers
Chen Jin, Shiki Yagai
- 2Pc003 Encapsulation of coronene in the st-PMMA helical structure and optical property of the obtained inclusion complex
Ituki Tousya, Haruto Minami, Kousei Nakata, Takehiro Kawauchi
- 2Pd004 Helical Supramolecular Polymerization of Barbiturate-Functionalized Chlorophylls
Ryoma Tsuchida, Shiki Yagai, Hitoshi Tamiaki
- 2Pc005 Construction of hydrogen-bonded organic framework based on carboxyphenylpyrene derivative and its structural transformation.
Taito Hashimoto, Ryusei Oketani, Ichiro Hisaki
- 2Pd006 Synthesis and Characterization of Copper(I) Coordination Polymers with Arsenic Ligands
Kazuma Kikuchi, Hiroaki Imoto, Kensuke Naka
- 2Pc007 Supramolecular assemblies of synthetic chlorophyll dimers via hydrogen bonds and their optical properties
Tatsuma Ishii, Shogo Matsubara, Hitoshi Tamiaki
- 2Pd008 Helical Nanofibers Formed by Scissor-shaped Chlorophyll Dyad
Sho Takamiya, Shiki Yagai, Hitoshi Tamiaki
- 2Pc009 Development of Type I Photosensitizers by Self-Assembly of Fluorescein Molecules and Their Application to Photodynamic Therapy
Sakura Yamamoto, Asuka Bunno, Hajime Shigemitsu, Toshiyuki Kida
- 2Pd010 Carboxylation of hydroxy-functional poly(vinyl ether) and their physical gelation in water
Hiroko Shimbo, Atsushi Matsumoto, Yasushi Maeda, Shinji Sugihara
- 2Pc011 Supramolecular Polymerization of Styrylnaphthalene-Incorporated Monomer Bearing Barbituric Acid
Shuheii Yamashita, Shiki Yagai
- 2Pd012 Hierarchical assembling of gold clusters into nanofibers by introducing fluorinated ligands
Yuki Saito, Duhong Sun, Yukatsu Shichibu, Hideyuki Mitomo, Kuniharu Ijiri, Katsuaki Konishi
- 2Pc013 Photoresponsive Property of Supramolecular Polymers Formed from Diarylethene Rosettes
Tatsuya Seki, Shiki Yagai
- 2Pd014 Synthesis of supramolecular metal complexes composed of sulfur-containing polymers with 2,2'-bipyridine and evaluation of their thermal stability
Daiki Kitano, Yuichiro Kobayashi, Hiroyasu Yamaguchi
- 2Pc015 Designing Anthracene Molecular Crystals Toward Photosensitive Effect
Yuto Hino, Shotaro Hayashi
- 2Pd016 Supramolecular Polymers Exhibiting Thermally Induced Interchain Aggregation
Tetsushi Yoneyama, Shiki Yagai

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 2Pc017 Post-synthetic modification of MOF by the condensation reaction between the organic ligand and guest arenes
Mariko Tsutsumi, Keitaro Matsuoka, Kazuki Sada
- 2Pd018 Supramolecular polymers Exhibiting Distinct Higher-Order Structure and Fluorescence Properties Depending on the monomer Packing
Mitsuru Muneda, Shiki Yagai, Yuta Sato
- 2Pc019 Effect of Additives on the Radical Polymerization Initiated with Isouronium-Based Ionic Liquids
Shuichi Kanno

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 2Pd020 Ultralight but Strong Polymeric Nanomembranes Formed within Unconventional Electric Double Layer
Yudai Yokoyama, Tengfei FU, Pier-Luc CHAMPAGNE, Takuzo Aida, Yoshimitsu Itoh
- 2Pc021 The Spatial Distribution Analysis of Chemical Components in Resist Thin Films with Grazing-Incidence Resonant Soft-X-ray Scattering
Atsunori Nakamoto, Shinji Yamakawa, Tetsuo Harada, Takeo Watanabe
- 2Pd022 Evaluation of Water Diffusion Focusing on Roots of Farm Products by Microscopic Contact Angle
Junki Miyamoto, Honoka Sugiyama, Daisuke Ishii
- 2Pc023 Development new functional materials that mimic insect self-cleaning organs
Masanori Yoshida, Rikima Kuwada, Syuto Ito, Mikihiro Hayasi, Daisuke Ishii
- 2Pd024 Water Structure in Polymer Brush Layer Examined by ATR-near/mid-IR
Yuri Kishimoto, Shigehiro Kagaya, Kohji Ohno, Makoto Gemmei-Ide
- 2Pc025 Component Distribution of an Adsorbed Layer of Polystyrene Blend with Different Molecular Weights and Its Interfacial Structure with a Homologue Thin Film
Motoyuki Ozaki, Yoshihisa Fuji, Naoya Torikai
- 2Pd026 Adhesion of ionomer thin film on Pt surface by thermal annealing and its swelling behavior by water vapor
Shigeki Uzuki, Norifumi Yamada
- 2Pd028 Multiarm Star-Crosslinked Hydrogel: Size Effect of Star Crosslinker on Mechanical Properties
Souma Suzuki, Shohei Ida, Hiroki Takeshita, Shokyoku Kanaoka
- 2Pc029 Hydrogel with Crosslinked Domain Structure Exhibiting Thermoresponsive Mechanical Toughening and Photoluminescence Change
Takahiro Okuno, Shohei Ida, Kazumasa Suzuki, Hiroki Takeshita, Masatoshi Oyama, Keiji Nakajima, Shokyoku Kanaoka
- 2Pd030 Preparation of Anisotropic Microgels by Stretching of Template-free Microgels
Ayane Nakanishi, Hiroaki Yoshida, Hiroharu Ajiro
- 2Pc031 Relationship between Nanostructure of Polymer Network and Mechanical Strength of Slide-Ring Gel Composed of Non-Volatile Solvent
Takato Enoki, Kei Hashimoto, Kohzo Ito, Koichi Mayumi
- 2Pd032 Preparation and properties of thermosetting-resins obtained from bismaleimide derivatives and silicon-containing polymers
Tsubasa Onoue, Akito Sakaguchi, Shusei Sato, Tsukasa Ichikawa, Nobukatsu Nemoto, Yuki Hakamata, Kazuto Umezu

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 2Pc033 Phase diagram derivation of hydrogels with variable side chain length and the effect of side chains
Takuto Hirayama, Takuma Kureha
- 2Pd034 Ordered Structure of Hydrophilic/Hydrophobic Random Copolymer Formed under Aqueous Condition
Katsuhiko Yamamoto, Eri Ito, Mihiro Inukai
- 2Pc035 Visualization and 3-dimensional analysis for chain structures formed by magnetic particles in a limited space
Rio Urano, Kejun Chen, Shota Akama, Motohiro Suzuki, Akihisa Takeuchi, Masayuki Uesugi, Mika Kawai, Tetsu Mitsumata
- 2Pd036 Relaxation Characteristics of Network Polymers with random connectivity using Molecular Dynamics Simulations
Hiroshi Sasaki
- 2Pc037 Fabrication of multi-core gelatin gel filaments using the flow field
Meina Kishida, Misuzu Takahashi, Eri Nasuno, Yasuko Yanagida, Norihiro Kato
- 2Pd038 Hydrophobic Modification of Hydrogels based on Poly(N-vinylamide) Derivatives via Surface-selective Hydrolysis
Tsurugi Kikukawa, Hiroaki Yoshida, Hiroharu Ajiro
- 2Pc039 Analysis of the formation mechanism of shear-induced pectin gel filaments with a multi-core structure
Misuzu Takahashi, Meina Kishida, Eri Nasuno, Norihiro Kato
- 2Pd040 Formation of super-stretchable latex films without organic solvents
Yuma Sasaki, Takuma Kureha, Seina Hiroshige, Haruka Minato, Takumi Watanabe, Kazuya Uenishi, Kazuko Nakazono, Toshikazu Takata, Daisuke Suzuki
- 2Pc041 Degradable hydrogel microspheres
Hiroki Yokoi, Yuichiro Nishizawa, Takayuki Uchihashi, Daisuke Suzuki
- 2Pd042 Characteristics of hydrogel microspheres compressed at the air/water interface
Takahisa Kawamoto, Tetsuya Noguchi, Kohei Yanagi, Haruka Minato, Daisuke Suzuki
- 2Pc043 Fatigue fracture of tough hydrogel with lamellar bilayer structure
Most Laboni Begum, Milena Lama, Xueyu Li, Md. Anamul Haque, Jian Ping Gong
- 2Pd044 Viscoelasticity mapping near crack-tip of fast propagating crack in soft materials
Ayano Kozono, Thanh-Tam Mai, Kenji Urayama
- 2Pc045 Insolubilization of gelatin gel for cell culture and observation
Saori Sasaki, Toshihiro Sera, Susumu Kudo
- 2Pd046 Shear Viscosity at Low Shear Rates and Chain Orientation Behavior for Sacran Aqueous Solutions
Masahiro Kaneko, Maiko Okajima, Tatsuo Kaneko, Atsushi Takahara, Tsubasa Sato, Yoshifumi Yamagata, Keisuke Miyamoto, Mika Kawai, Tetsu Mitsumata
- 2Pc047 In Situ Small-Angle X-ray Scattering Investigation on Polyisoprene Ionomers under Uniaxial Stretching
Shinichiro Hamajima, Yohei Miwa, Shoichi Kutsumizu, Hideaki Takagi
- 2Pd048 Effects of Degree of Neutralization on CO₂ Plastic Behavior of Ionic Silicone Elastomers with Dynamic Ionic Crosslinking.
Rina Sawada, Yohei Miwa, Shoichi Kutsumizu

S4. New Developments in Polymer Characterization

- 2Pc049 The abnormal elution behavior of linear and branched polystyrene in SEC
Yoshinori Matsumoto, Kazushi Enomoto, Moriya Kikuchi, Seigou Kawaguchi
- 2Pd050 Nano- and Sub-micron Particle Measurements by Focused-Beam Dynamic
Ultrasound Scattering Method
Kana Kitao, Tomohisa Norisuye
- 2Pc051 Dynamics of Concentrated Microparticle Suspensions Examined by Electrophoretic
Dynamic Ultrasound Scattering Technique
Mao Yamada, Kaito Tajika, Tomohisa Norisuye
- 2Pd052 Correlation between ordered Structure, degree of crosslinking and thermal expansion
of thermally cross-linkable polyimide
Yuta Ohsako, Shohei Hara, Shinji Ando, Ryohei Ishige
- 2Pc053 Terminal Group Effects on a Temperature Dependent Aggregation Behavior of Star-
Shaped Poly(N-isopropylacrylamide) in Aqueous Solution
Masafumi Nagase, Shohei Ida, Shokyoku Kanaoka, Ken Terao
- 2Pd054 Crystallization of polypropylene containing a novel metal salt type nucleating agent
Riho Nishikawa, Shohei Iwasaki, Takahiro Inoue, Masayuki Yamaguchi, Takumitsu
Kida
- 2Pc055 In-situ AFM observation of extended-chain crystallization of poly(lactic acid)
Kazuya Ohtomo, Jiro Kumaki
- 2Pd056 Three-Dimensional Characterization of Unique Helical Microphase-Separated
Structures formed from ABAC Tetrablock Terpolymers.
Kyoka Kusano, Tsuyoshi Orido, Jiro Suzuki, Atsushi Takano, Yushu Matsushita
- 2Pc057 Three-Dimensional Characterization of Novel Tricontinuous Microphase-Separated
Structures formed from ABC Triblock Terpolymer Blends.
Ayane Kitahara, Jiro Suzuki, Atsushi Takano, Yushu Matsushita
- 2Pd058 Study on the change of density distribution of LLDPE during drawing process
Masato Arakawa, Mikihiro Takenaka
- 2Pc059 Development of Soft Mode in Liquid Crystal Elastomers Detected by Dynamic
Viscoelasticity Measurements in the Stretched State
Takuho Naraoka, Kenji Urayama
- 2Pd060 High-sensitivity deterioration index of rubbers using non-linear viscoelasticity
Kyoichi Tsurusaki, Rika Takeda, Ryoga Oguri, Ryoen Shirasaki
- 2Pc061 Plasticization by CO₂ sorption of rubbery materials observed by proton pulse NMR
Nozomi Uno, Shogo Iwama, Hiroaki Yoshimizu

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 2Pc063 Synthesis of ZrO₂ Nanoparticles by Solvothermal Method and Nano dispersion in
Polymer
Yuuichiro Onuma, Kazushi Enomoto, Moriya Kikuchi, Seigou Kawaguchi
- 2Pd064 Grafting of Polythiophene to Silica Nanoparticles by Surface-graft Polymerization (II) -
Control of Chain Length on High Densified Grafting Surface -
Minghao Yuan, Masahiro Fujita, Yuko Takeoka, Masahiro Rikukawa
- 2Pc065 Synthesis of patchy particles and surface modification of metal-plated particles
Ryoya Takahashi, Yuya Takahashi, Tomonao Naruhashi, Daisuke Aoki, Tatsuo
Taniguchi, Takashi Karatsu
- 2Pc067 Luminescent lanthanide coordination nanoparticles binding with DNA
Kensei Sasaki, Sunao Shoji, Yuichi Kitagawa, Kazuki Nakamura, Norihisa
Kobayashi, Koji Fushimi, Yasuchika Hasegawa

- 2Pd068 Complexation of polyglycidol on the surface of magnetic nanoparticles and introduction of fluorescent labeling agents.
Mirai Saijo, Tadashi Tsukamoto, Yoshiyuki Oishi, Satoru Kobayashi, Yoko Shiba, Yuzi Shibasaki
- 2Pc069 Development of dispersants that can control the dispersibility of inorganic nanoparticles in elastomers by photoisomerization
Yu-mi Takeoka, Shuta Hara, Takayuki Ikehara
- 2Pd070 Fabrication and electrical characteristics of PEDOT-Cellulose composite.
Naofumi Takahashi, Takeshi Shimomura
- 2Pc071 Functionalization of Polymer Tribomaterials Based on Cellulose Nanofiber Porous Structure
Hiroshi EGUCHI, YUKIYA KOYAMA, Hiroki URAMATSU, Kenji NAGATA
- 2Pd072 Solid-state Structure and Mechanical Properties of Polymer-based Composites Including Polyrotaxane and Nanocellulose as Organic Nanofillers
Pinjung Chu, Ko Harada, Atsuhiko Fujimori

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C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 2Pc073 Development of amphiphilic block copolymer/cellulose-nanofibers (CNF) composite materials
Keita Mochizuki, Katsuhiko Yamamoto
- 2Pd074 Mechanical Properties and Shape Memory Behavior of End-Crosslinked Titania Hybrid Polymers
Hideji Sato, Shuta Hara, Takayuki Ikehara
- 2Pc075 Concept for application of conducting polymer polyaniline containing neodymium
Toru Kita, Kyoka Komaba, Hiromasa Goto
- 2Pd076 Charge transfer emission from π -orbital to 4f-orbital in the Eu(III) complexes using strong donor typed ligands
Kota Aikawa, Sunao Shoji, Koji Fushimi, Yasuchika Hasegawa, Yuichi Kitagawa
- 2Pc077 Near-infrared emission of Yb(III) coordination complex with porphyrin photosensitizer
Shota Hosoya, Sunao Shoji, Koji Fushimi, Yuichi Kitagawa, Yasuchika Hasegawa
- 2Pd078 Anisotropic Hybrid Polyelectrolyte Hydrogels Based on Inorganic Nanosheet Liquid Crystal
Wenqi Yang, Xueyu Li, Kunpeng Cui, Nobuyoshi Miyamoto, Taolin Sun, Tasuku Nakajima, Jianping Gong
- 2Pc079 Preparation and Evaluation of Composite Membranes Composed of Biodegradable Polyurethane and Hydroxyapatite (I) - Effect of Hydroxyapatite Content on Mechanical Strength -
Kyoko Sato, Masahiro Fujita, Yuko Takeoka, Masahiro Rikukawa
- 2Pd080 Control of Mechanical Properties of Fiber-reinforced Elastomers Mimicking of Biological Tissues
Keisuke Mukaida, Daniel King, Haruka Mizutani, Tsuyoshi Okumura, Wei Cui, Masahiro Yoshida, Takayuki Kurokawa
- 2Pc081 Structural coloration on black elastomer surfaces by transferring micro/nanostructures
Toko Ogata, Yuji Hirai, Yasutaka Matsuo
- 2Pd082 Blue luminescent properties of cerium(III) complexes with acceptor typed ligands
Toranosuke Tomikawa, Sunao Shoji, Tomoko Akama, Masato Kobayashi, Koji Fushimi, Tetsuya Taketsugu, Yasuchika Hasegawa, Yuichi Kitagawa
- 2Pc083 Oxygen sensing properties of lanthanide molecular crystals with polycyclic hydrocarbon frameworks

Takuma Nakai, Sunao Shoji, Koji Fushimi, Yasuchika Hasegawa, Yuichi Kitagawa

- 2Pd084 Preparation of Phenolic Resin Derivatives-Inorganic Polymers Composites *via* Electrostatic Interactions
Kotaro Ikemura, Tadamasa Nemoto
- 2Pc085 Synthesis of organic-inorganic hybrids using thiol-ene reaction
Asuka Kitahara, Eri Matsukawa, Kimihiro Matsukawa, Kaoru Adachi
- 2Pd086 Syntheses of polyureas containing DDSQ in the main chain and their structure-property relationships.
Tasuku Kamitani, Hiroaki Imoto, Kensuke Naka
- 2Pc087 Preparation and electrochemical properties of cathode catalysts of polymer electrolyte fuel cells by pyrolysis of polymer precursors consisting of metallic phthalocyanine and π -electron conjugated moieties
Hiroki Matsumoto, Hidenori Takasawa, Noriko Haiya, Tatsumi Sasaki, Tsukasa Ichikawa, Izuru Kobayashi, Nobukatsu Nemoto, Yudai Kitagawa, Kotaro Yoshioka, Yuki Sakamoto, Masaji Akimoto
- 2Pd088 Development and Characterization of Proton-Electron Conductors Using Diblock Copolymers (2) - Investigation of copolymerization ratio -
Nanami Tanaka, Masahiro Hujita, Yuko Takeoka, Masahiro Rikukawa
- 2Pc089 Electrochemical properties of pyridopyrazine with high hydrogen storage capacity and synthesis of pyridopyrazine-substituted polymers
Yuka Tobita, Yusuke Kaiwa, Kenichi Oyaizu
- 2Pd090 Synthesis and redox properties of TEMPO-substituted polymers with ethylene glycol side chains
Ikuma Aida, Kan Hatakeyama-Sato, Tomomi Nagatsuka, Hirofumi Takami, Kenichi Oyaizu
- 2Pc091 Properties of Solid Polymer Electrolytes using Movable Crosslinked Poly(ethylene oxide) Network
Ryotaro Kamide, Sotaro Mizuno, Takahiro Uno, Masataka Kubo
- 2Pd092 Hydrogen energy conversion using organic solar cell modules
Goro Kawai, Atsushi Aoki
- 2Pc093 Development of highly alkaline-resistant tetra-arylphosphonium salts and polymers possessing corresponding units for highly robust anion exchange membrane applications
Yoshikazu Toyama, Ryoyu Hifumi, Shinsuke Inagi, Ikuyoshi Tomita
- 2Pd094 Synthesis of Triarylsulfonium-containing Polymers and Their Application to Anion-exchange Membrane Materials.
Tomohiro Imai, Ryoyu Hifumi, Shinsuke Inagi, Ikuyoshi Tomita
- 2Pc095 Reinforcement effect of anion exchange membranes by porous substrates.
Keiji Nagahara, Kenji Miyatake

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C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 2Pc097 oxidation voltage at surface of semiconducting polymer
Koushi Usuda, Kazuya Sakata, Masahiro Nakano, Tetsuya Taima, Makoto Karakawa
- 2Pd098 Design of Lithium-Air Battery Using BIAN Based Conjugated Polymer Complex as Cathodic Catalyst
Masaya Ohira, Badam Rajashekar, Noriyoshi Matsumi
- 2Pc099 Effect of Heteroaromatic Rings in Thienoazacoronene-Containing Non-Fullerene Acceptor
Motohisa Kubota, Tomokazu Umeyama

- 2Pd100 Side Chain Modification and Interface Passivation of Dopant-free Poly(3-Alkyl thiophene)s for All Inorganic Perovskite Solar Cells
Megumi Kojima,Keinichi Oyaizu,Hiroshi Segawa,Hiroyuki Nishide,Takeo Suga
- 2Pc101 Electrochemical performance of composite solid polymer electrolytes with lignin nanoparticle fillers
Zitong Liu,Kazuhiro Shikinaga,Yuichiro Otsuka,Yoichi Tominaga

S15. Environmental Problem Caused by Plastics and Their Solution

- 2Pc103 Biodegradable multilayer films with a degradation initiation function composed of cellulose ester derivatives and P(3HB-co-3HHx)
Jobu Tateiwa,Satoshi Kimura,Tadahisa Iwata
- 2Pd104 Synthesis, Enzymatic and Environmental Biodegradability of Paramylon Ester Graft Copolymers
Jin Ho Seok,Yukiko Enomoto,Tadahisa Iwata
- 2Pc105 Design of thermoplastic materials using cellulose as a backbone
Ruozhu Wang,Yoshito Andou
- 2Pd106 Effect of Thermosetting Conditions of Chlorella/Polymer Composites on Mechanical Strengths of Cell-Plastics
Kohei Iritani,Takashi Yamashita
- 2Pc107 Fabrication of polypropylene nano-plastics via thermal-oxidative reaction for macrophage responsiveness studies
Suphatra Hiranphinyophat,Tomoki Hiraoka,Sho Fujii,Tadao Tanabe,Tsuyashi Kimura,Masaya Yamamoto
- 2Pd108 Biodegradable thermoplastic elastomers synthesized from short-chain dicarboxylic acid, 2-methyl-1,3-propanediol, and lactide
Yuushou Nakayama,Lamya Zahir,Ryo Tanaka,Takeshi Shiono,Takumitsu Kida,Shodai Hino,Norioki Kawasaki,Naoko Yamano,Atsuyoshi Nakayama
- 2Pc109 Examination of polymer decomposition technology using low-power-driven atmospheric pressure low-temperature plasma jet
Masashi Yamamoto,Hidetoshi Sakamoto,Shu Hamasaki,Tomoyuki Tanino,Haruki Okamoto,Hideo Horibe
- 2Pd110 Preparation of Porous Poly(lactic acid) Microspheres by Thermally-induced Phase Separation .
binti Mohamed Rafiq Hasinah,Yu-I Hsu,Hiroshi Uyama

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D. BIOPOLYMERS AND BIORELATED POLYMERS

- 2Pd116 Preparation and Evaluation of Polyion Complex/PLGA Coaxial Fibers for the Control of Hydrophobic Drug Releases
Kenta Tanaka,Takuya Sagawa,Mineo Hashizume
- 2Pc117 Development of phenylboronic acid-containing amphiphiles showing photoluminescence change in response to saccharides and hydrogen peroxide
Tomoki Tanigawa,Masashi Ishida,Masayuki Izumi,Rika Ochi
- 2Pd118 Preparation of a novel biodegradable polyester-based nanoparticles bearing Chrysin derivatives
Emi Nakaoka,Nalinthip CHANTHASET,Hiroharu Ajiro
- 2Pc119 Synthesis of AIEgen-linked amphiphilic block copolymer and application for study on polymer micelle stability
Kazuyoshi Oma,Makoto Obata

- 2Pd120 Synthesis of site-specific dye-labeled block copolymer and preparation of their micelles
Yuto Suzuki, Makoto Obata
- 2Pc121 Preparation and characterization of fluorescently labeled polymer micelles
Shogo Yamaguchi, Makoto Obata
- 2Pd122 New Submicron Particles Composed of Crown Ethers and Polyphenols
Saki Endo, Mahiro Sarai, Kenichi Niikura
- 2Pc123 Particle Formation and pH Responsiveness of Gallic Acid trimer and polyethylene glycol derivatives
Hiroki Seo, Kenichi Niikura
- 2Pd124 Observation of Fluorescent Polymer Nanoparticle Uptake into Liquid-Liquid Phase-Separated Droplets
Keitaro Kojima, Shunsuke Tomita, Kamimura Masao
- 2Pc125 Fabrication of polyion complex hexagon nanosheets using PEG-poly-L-lysine block copolymer
Asmariah Ahamd, Sooyeon Lee, Teruki Nii, Takeshi Mori, Yoshiki Katayama, Akihiro Kishimura
- 2Pd126 Selective Capturing of Virus-Shaped Fluorescent Nanoparticles by Protein Microtubule Motor
Yushi Akashi, Ryo Kato, Teruyuki Komatsu

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Presentation Time

<e = 15:20~16:00>

<f = 16:00~16:40>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 2Pe001 Radical Polymerization of Conjugated Thionoesters Derived from Bio-Based Aromatic Compounds
Kanako Kikuta, Tomohiro Kubo, Kotaro Satoh
- 2Pf002 Precision Polymerization and Evaluation of Plant-Derived Catechol-Containing Polymers
Kaori Tanimoto, Tomohiro Kubo, Kotaro Satoh
- 2Pe003 Addition-Fragmentation Radical Ring-Opening Polymerization of exo-Methylene Monomer Derived from Oxazoline
Sota Takashima, Tomohiro Kubo, Kotaro Satoh
- 2Pf004 Synthesis of Monodisperse Amphiphilic Oligomers by Living Radical Polymerization and Preparative Purification
Toa NAKANE, Keito HIRANO, Kenta SOMA, Hironobu WATANABE, Mineto UCHIYAMA, Masami KAMIGAITO
- 2Pe005 Radical polymerization of methacrylates derived from naturally occurring myo-inositol
Tomoharu Nishimura, Atsushi Sudo
- 2Pf006 RAFT polymerization of hydrophilic monomers using hydrophobic natural deep eutectic solvents
Shingo YUKI, Hideharu MORI
- 2Pe007 Performance of Pyridinium-based Ionic Liquids as a Radical Polymerization Initiator under Various Polymerization Conditions
Shuichi Kanno
- 2Pf008 Specificity of Borane-Methyl Sulfide Complex as a Radical Polymerization Initiator
Shuichi Kanno
- 2Pe009 Polymerization of Bulky Styrene Derivatives Bearing Side-Chain Dibenzosuberane Moiety

Zhiyong Fang, Masayoshi Bando, Zhiyi Song, Tamaki Nakano

- 2Pf010 Synthesis and radical polymerization of [3.4](3,9)carbazolophane derivatives having acrylate group
Rin Sotani, Keita Tani, Kenta Goto, Fumito Tani, Yuji Kinose, Yoshinobu Tsujii
- 2Pe011 Radical copolymerization of acrylamide and methacrylate containing benzotriazole and properties of the resulting polymer
Ayumu Shinkura, Toshikazu Sakaguchi, Tamotu Hashimoto
- 2Pf012 Efficient Radical Polymerization Caused by Spatiotemporal Irradiation-Induced Molecular Diffusion
Takuto Ishiyama, Hirona Nakamura, Miho Aizawa, Kyohei Hisano, Shoichi Kubo, Atsushi Shishido
- 2Pe013 Synthesis of polydiacetylene with optically active amino acid derivatives as side chains and their optical properties
Fumiya Kurebayashi, Kazuhiro Yamabuki, Kenjiro Onimura
- 2Pf014 Graft copolymerization of styrene and methyl methacrylate onto natural rubber by ARGET- ATRP
Naoki Akiyama, Quentin Tevenot
- 2Pe015 Development of New Fluoropolymers by Copolymerization of [1.1.1]Propellane and Fluoroalkenes
Mizuki Okuda, Junki Masuda, Midori Akiyama, Ai Kohata, Shintaro Nakagawa, Kimiaki Kashiwagi, Norihide Sugiyama, Takashi Okazoe
- 2Pf016 Synthesis of poly(α -methylene- γ -butyrolactone) by radical polymerization mediated by microbial metal reduction ability and the evaluation of its environmental stability
Kota Nishii, Kayo Terada, Kousuke Tsuchiya, Keiji Numata

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A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 2Pe017 Synthesis of asymmetric polyfumarates and the evaluation of physical properties
Ryotaro Ishimaru, Yasuhito Suzuki, Akikazu Matsumoto
- 2Pf018 Photo-induced ring-expansion polymerization of methacrylates using benzothiazole-2-thione as the cyclic initiator
Yoichi Tsujinaka, Yuuma Hatano, Akira Takahashi, Atsushi Kameyama
- 2Pe019 Synthesis of side chain liquid crystalline polyacrylates and polymethacrylates bearing bridged stilbene mesogens
Yuki Sawatari, Gen-ichi Konishi
- 2Pf020 Controlled radical polymerization of diaryl[2]dendralene and the characterization
Ryosuke Hirai, Yuichiro Tokoro, Shin-ichi Yamamoto, Toshio Koizumi

S3. Development of Element-Block Materials for Realization of Sustainable Society

- 2Pe023 Position dependence of microphase-separated structure change of polyurethane adhesives with various hard segment contents during lap shear deformation
Kakeru Obayashi, Chao-Hung Cheng, Rasha Ahmed Hanafy Bayomi, Atsushi Takahara, Ken Kojio
- 2Pf024 Development of novel silica materials using polymer with polyhedral oligomeric silsesquioxane
Tomoyasu Hirai, Syujii Fujii, Yoshimobu Nakamura

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 2Pf026 Theoretical Analysis and Molecular Simulation of Damping Elastomers with Dangling Chains
Koki Yoshitomi, Tsuyoshi Koga
- 2Pe027 Hydrogel swelling and solute diffusion analysis by using surface plasmon resonance measurement
Tomomi Murai, Suzuyo Inoue, Riku Takahashi, Aya Tanaka, Michiko Seyama
- 2Pf028 Structure Change in Colloidal Crystallization of Temperature-responsive Polymer Microgel Dispersion
Reina Ota, Hiroki Takeshita, Katsuhisa Tokumitsu
- 2Pe029 Fracture mechanism of pure elastic hydrogel
Ryuji Kiyama, Takayuki Nonoyama, Kazuki Fukao, Tsutomu Indei, Hui Chung Yuen, JianPing Gong
- 2Pf030 Swelling-shrinking and phase transition behavior of poly(g-benzyl L-glutamate) gels induced by changing immersion solvent
Miyu Yamasaki, Shogo Nobukawa, Katsuhiko Inomata
- 2Pe031 Compression Driven Shrinking and Stress Relaxation of Polyelectrolyte Gels
Akihiro NAGANO, Kenji URAYAMA
- 2Pf032 Toughening of Vitriimer Resin by Addition of Polyester Grafted Polyrotaxane
Masaki Hirano, Shota Ando, Hideaki Yokoyama, Kohzo Ito

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B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 2Pe033 Characterization of Mechanical Heterogeneity for Epoxy Resins with 2-Dimensional Mapping
Runa Otani, Eri Nakagawa, Takahito Ohmura, Yoshihisa Fujii, Naoya Torikai
- 2Pf034 Network structures of hydrogels revealed by probe diffusion dynamic light scattering
Keita Namba, Takuto Hirayama, Takuma Kureha
- 2Pe035 Effect of Cylinder Orientation of Polystyrene-b-polyisoprene-b-polystyrene Block Copolymers on Microdomain Structure Change under Uniaxial Stretching
Aya Fujimoto, Ayumi Hamada, Chao-Hung Cheng, Kakeru Obayashi, Ryosuke Kawatoko, Airi Sato, Makiko Ito, Yoshifumi Amamoto, Ken Nakajima, Ken Kojio
- 2Pf036 Preparation of reversible hydrogels with multibranched type zwitterionic phospholipid polymers.
Yoshiki Hosobe, Yuta Yoshizaki, Tomohiro Konno
- 2Pe037 Improvement of direct observation technique for hydrogel nano-scale network structure
Masahiro Yoshida, Ryuji Kiyama, Jian Ping Gong
- 2Pf038 Effect of adjacent cationic-aromatic sequences on yielding criteria for double network hydrogels
Feixue LU, Hailong FAN, Jianping GONG
- 2Pf040 Analysis of Electrical Tree by Raman Spectroscopy
Takahiro Mabuchi
- 2Pe041 Structural analysis of the oscillatory necking propagation of polybutylene succinate
Yutaka Kobayashi, Akira Ishigami, Hiroshi Ito
- 2Pf042 Fatigue analysis of bending polymer films
Masayuki Kishino, Ryo Taguchi, Kyohei Hisano, Atsushi Shishido
- 2Pe043 Evaluation of acoustic characteristics of Cross-linked PMMA particles
Kazuhiro Miyamoto, Kazuishi Sato, Toshiro Kondou, Souma Ikuta, Yusuke UeTa, Ryou Sakaga, Kyousuke Kamada, Isao Matsumoto, Nozomi Okura, Takashi Kanamori

- 2Pf044 Temperature dependence of relaxation time for atactic polystyrenes with different molecular weights by temperature-modulated DSC (TMDSC) and dynamic mechanical analysis (DMA)
Ritsuki Hayashi, Itaru Tsukushi
- 2Pe045 Effect of hydrogen bond in heat capacity of cellulose by molecular vibration analysis
Sota Goto, Itaru Tsukushi
- 2Pf046 Analysis of bending creep behavior in polymer films
Jiayi Yu, Masayuki Kishino, Ryo Taguchi, Kyohei Hisano, Atsushi Shishido
- 2Pe047 Vibration Analysis of Heat Capacity for silicone-based polymers below the Glass-Transition Temperature
Marika Yokota, Itaru Tsukushi
- 2Pf048 Free energy analysis of effect of crystallization on permeability in copolymer membrane by molecular simulation
Hidekazu Kojima, Nobuyuki Matubayasi

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C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 2Pe049 Self-association behavior of amphiphilic random copolymers bearing sugar structure in water
Yui Tsunekawa, Shin-ichi Yusa
- 2Pf050 Association behavior of amphiphilic diblock copolymer with zwitterion in water
Kaito Yokota, Masaru Tanaka, Shingo Kobayashi, Shin-ichi Yusa
- 2Pe051 Control of thermal- and photo-induced self-assemblies via cis-azobenzene with hydrogen-bond moieties
Erika Kida, Mitsuaki Yamauchi, Sadahiro Masuo
- 2Pf052 One-Dimensional Arrangement of Quantum Dots Using Molecular Assemblies of Cholesterol Derivatives
Kanako Nakatsukasa, Mitsuaki Yamauchi, Sadahiro Masuo
- 2Pe053 Pseudo-polyrotaxane Nanosheet: Relation Between Axial Polymer Folding and End Groups
Haruki Kazumi, Shuntaro Uenuma, Hideaki Yokoyama, Kohzo Ito
- 2Pf054 Switching of photosensitizing mechanism induced by formation of a supramolecular assemblies of Rose bengal molecules and the application to chemical reactions
Asuka Bunno, Hajime Shigemitsu, Toshiyuki Kida
- 2Pe055 Creation of Supramolecular Copolymers Toward Hierarchical Self-assembly
Chisako Kanzaki, Munenori Numata
- 2Pf056 Aggregation-induced emission behavior and its thermal responsivity of Push-Pull type azobenzene
Eriko Machida, Mitsuaki Yamauchi, Sadahiro Masuo
- 2Pe057 Construction of photoresponsive quantum dot-arrangement structure by using azobenzene-functionalized cholesterol derivative
Kazuhito Yamaoki, Mitsuaki Yamauchi, Sadahiro Masuo
- 2Pf058 Development of sustainable materials by functional block polymers having both hydrophilicity and biodegradability
Fuka Kimura, Tomoyuki Toda, Katsuhiko Takenaka, Nobuhiro Nishiyama, Michihiro Iijima
- 2Pe059 A large-scale synthesis of 32-terminated polyamine dendrimers to applied to molecular capsules
Shogo Tago, Atsushi Seki, Ken'ichi Aoki

- 2Pf060 Development of Quinhydrone complexes based on asymmetric BQ and HQ derivatives toward PCET function
Kota Fukuda, Masahiro Funahashi, Kyosuke Isoda
- 2Pe061 Research on thin-film pressure sensors using carbon nanoparticle-supported elastomer nanosheets
Momo Toyama, Shinji Takeoka
- 2Pf062 Facile Preparation of Functional Paper Using Alkylated Cellulose Oligomers
Moe Amitani, Toshiki Sawada, Takeshi Serizawa
- 2Pe063 Development of fluorene-phenylene vinylene copolymer nanoparticles using the two-step nanoprecipitation method
Takumi Kanazawa, Kazushi Enomoto, Moriya Kikuchi, Masaru Nagai, Seigou Kawaguchi
- 2Pf064 Fabrication and characterization of polymeric nanofibers dispersed in water as novel anisotropic nanomaterials
Hayato Yokose, Naoya Ichihara, Yosuke Okamura
- 2Pe065 Massive fabrication of porous nanosheets using combination processes between Roll-to-Roll coating and roller nanoimprinting.
Takuto Aoki, Hong Zhang, Tomomasa Suzuki, Yuta Sunami, Yosuke Okamura
- 2Pf066 Synthesis and function of thermo-responsive polymer capsules containing PNIPAM
Akira Wakamiko, Ren-hua Jin
- 2Pe067 Developing of curcumin hyperbranched polymer for DDS
Yusuke Nakayama, Sunnam Kim, Tsuyoshi Hukaminato, Seiji Kurihara
- 2Pf068 Association behavior and functional evaluation of hyperbranched polysaccharide nanoparticles with thermoresponsive interfaces
Hayata Kimura, Yoshihiro Sasaki, Tomoki Nishimura, Shin-ichi Sawada, Kazunari Akiyoshi
- 2Pe069 Preparation of Vertically Aligned Nanorod Arrays by Inkjet Printing
Keegan McGehee, Koichiro Saito, Kengo Manabe, Yasuo Norikane
- 2Pf070 Development of aromatic polymer spherical particles for SARS-CoV-2 adsorbents
Yudai Oishi, Mako Toyoda, Nanami Hano, Chihiro Motozono, Takamasa Ueno, Makoto Takafuji
- 2Pe071 Structural control and functionalization of polymer spherical particles having naphthalene backbone
Nanami Hano, Yudai Oishi, Haruka Kimura, Yuki Iwamoto, Mai Fukunaga, Reiko Oda, Hirotaka Ihara, Makoto Takafuji
- 2Pf072 Detection of Biotin Compounds using Polymer Microtube Motor
Mai Hashimoto, Ryo Kato, Teruyuki Komatsu

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C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 2Pe073 Fabrication and evaluation of polysaccharide nanosheets cross-linked with boronic acid controlling volatilization of odor molecules
Ryohei Fujita, Shoko Tsuchiya, Atsushi Nakagawa, Yosuke Okamura
- 2Pf074 Fabrication and evaluation of dual cross-linked gel sheets containing antioxidants for preventing aged body odor
Ayumi Sakai, Hironori Iwamatsu, Yosuke Okamura
- 2Pe075 Study on electret property of electrospun PVDF nanofiber
Mio Yoshita, Shin-ichiro Suye, Satoshi Fujita
- 2Pf076 Characterizing Elastic Conductive Fibers
Kohei Ayai, Yasuhiro Masumoto, Hideyuki Nakanishi

- 2Pe077 Patterning of Perovskite Quantum Dots using Thermodynamic Driving Force
Takuto Iwaki, Mamoru Morinaga, Hideyuki Nakanishi
- 2Pf078 Patterning Perovskite Quantum Dots using Light
Mamoru Morinaga, Takuto Iwaki, Hideyuki Nakanishi
- 2Pf080 Synthesis of Organic-inorganic Hybrids from POSS and Diol and the Preparation of Their Free-Standing Films
Hiroki Nonaka, Kazuki Yamamoto, Takahiro Gunji
- 2Pe081 Synthesis of cage-fused siloxane rings as inorganic-based host molecules and their inclusion behaviors
keigo okamoto, hiroaki imoto, kensuke naka
- 2Pe083 Preparation of PDMS/Silica Hybrid for Transparent Material in Deep UV LED
Erena Uchimura, Takahiro Uno, Masataka Kubo
- 2Pf084 Synthesis and photophysical properties of europium(III) coordination polymer with donor-acceptor typed linker
Miyu Harukawa, Hideaki Takano, Tsuyoshi Mita, Sunao Shoji, Koji Fushimi, Yuichi Kitagawa, Yasuchika Hasegawa
- 2Pe085 Aggregation and photophysical properties of Nona-nuclear lanthanide(III) clusters with amphiphilic groups
Yuki Konishi, Sunao Shoji, Yuichi Kitagawa, Koji Fushimi, Yasuchika Hasegawa
- 2Pf086 Recyclable Colloidal Crystal Elastomer Films Fabricated by Shear Force
Sawa Matsuura, Mami Obara, Naoto Iwata, Seiichi Furumi
- 2Pe087 Preparation and Electrical Properties of PP/PE Polymer Blends Filled with Thermally Reduced Graphene Oxides Through Different Oxidation Degrees
Kota Ota, Hoshi Hirono, Hiroshi Eguchi, Kenji Nagata
- 2Pf088 Preparation and Electrical Properties of Epoxy Composites Incorporated with Graphene/PVA Porous Materials
Mayu Hamamoto, Hiroshi Eguchi, Kenji Nagata
- 2Pe089 Structure and properties of graphene oxide reinforced nylon6 nanocomposites
Ryusei Shibuya, Seira Morimune-moriya
- 2Pf090 Structural transformation and circularly polarized luminescence of chiral Eu(III) coordination polymer with phase-transition behavior
Makoto Tsurui, Yuichi Kitagawa, Sunao Shoji, Hitomi Ohmagari, Miki Hasegawa, Masayuki Gon, Kazuo Tanaka, Masato Kobayashi, Tetsuya Taketsugu, Koji Fushimi, Yasuchika Hasegawa
- 2Pe091 Phase Transitions of Hybrid Systems Composed of Amorphous Molecular Materials and Liquid Crystalline Materials
Shoma Sato, Hideyuki Nakano
- 2Pf092 Application of Hydrotalcite Intercalated with Cyclic Compounds
Kazuya TAKADA, Takahiro KAKUTA, Tada-aki YAMAGISHI
- 2Pe093 Organic-Inorganic composites from itaconic acid-derived bionylon and montmorillonites.
Hao Li, Mohammad ASIF ALI, Hongrong Yin, Maninder Singh, Kenji Takada, Tatsuo Kaneko
- 2Pf094 Clays-Interlayer Control Using Cyclodextrin Derivatives
Harumi YUI, Takahiro KAKUTA, Tada-aki YAMAGISHI
- 2Pe095 Preparation and Evaluation of Polyaniline Carbon Nanotube Composites
Kazuki Yanagida, Mai Ichikawa, Hiromasa Goto

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S13. Polymeric Materials for Contributing Healthcare in Post-Corona World

- 2Pe097 Synthesis of N-acetyl-D-galactosamine-modified polyrotaxanes and their interaction with asialoglycoprotein receptor for targeting hepatic parenchymal cells.
Moe Ohashi,Atsushi Tamura,Nobuhiko Yui

S14. Observing, Creating, and Manipulating Biosystems by Biopolymers

- 2Pe099 Anticancer Chemotherapy by Cysteine-based Antioxidant Nanoparticles
Yuta Koda,Yukio Nagasaki

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 2Pe101 Electrostatic interaction between cationic nanobrushes and nucleic acids
Shin Takano,Miyashima Yusuke,Shota Fujii,Kazuo Sakurai
- 2Pf102 Construction and function of intracellular antibody delivery system using magnetic nanogels
Katsuya Ozeki,Ryosuke Mizuta,Yoshihiro Sasaki,Shinichi Sawada,Kazunari Akiyoshi
- 2Pe103 Construction of supramolecular nanostructures by self-assembly of oligoproline conjugates via hydrogen bonds
Yui Okamoto,Masahiro Higuchi,Shogo Matsubara
- 2Pf104 Effects of different polymer chain morphologies on the self-assembly behaviors of amphiphilic glycopolymers.
Naoki Ozawa,Tomoki Nishimura
- 2Pe105 Construction of the enzyme-encapsulated fibermats, using the post-crosslinkable hydrophilic polymers
Taira Ishiguro,Toshihisa Mizuno
- 2Pf106 Cellular uptake behavior of degradable and transformable polyester based particles
Syuuhei Komatsu,Satoshi Yamada,Akihiko Kikuchi
- 2Pe107 Construction of nano-assembly using carborane derivatives.
Keita Yamana,Riku Kawasaki,Hidetoshi Hirano,Naoki Tarutani,Tomoki Nishimura,Neval Yilmaz,Kiyofumi Katagiri,Yoshihiro Sasaki,Kazunari Akiyoshi,Atsushi Ikeda
- 2Pf108 Molecular assembly of polyethylene glycol revealed by antigen-antibody reaction
Takuma Kishimoto,Koichi Shiraishi,Shinichi Mochizuki
- 2Pf110 The wettability and the frictional property investigations on the surface microstructures of the *Necrophilia japonica*
Kazuma Tsujioka,Yuji Hirai,Masatsugu Shimomura,Yasutaka Matsuo
- 2Pe111 Analysis and imitation of the mechanism of penguin feathers to withstand high water pressure
Ryosuke Kawasaki,Daisuke Ishii,Rikima Kuwata,Yosuke Zaito,Masanori Kurita
- 2Pf112 Formation of non-spherical alginate hydrogel particles using a water/oil interface in a microfluidic device
Hirotsugu Maeda,Daisuke Saeki,Yukihisa Okumura

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D. BIOPOLYMERS AND BIORELATED POLYMERS

- 2Pe113 Electrochemical biosensing of C-reactive proteins using functional conducting polymers
Daisuke Kano,Tatsuro Goda
- 2Pf114 Monomer design of PS-mimetic polymers and their anti-inflammatory effect.
Shunsuke Matsumoto,Mitsuhiro Ebara

- 2Pe115 Preparation of transformable thermo-responsive core-corona nanoparticles for targeting macrophages.
Tomohiro Oizuru, Shuhei Komatu, Akihiko Kikuchi
- 2Pf116 Characterization of dragonfly wing using FTIR and IR dichroism imaging
Fumiya Nakamura, Minoru Yamaguchi, Takashi Isoshima, Hiromi Kimura-Suda
- 2Pe117 Fabrication of keratin film with permeability for both hydrophilic and hydrophobic substances
Yoshiyasu Nagakawa, Kazuhiko Tsuchiya, Shunji Yunoki
- 2Pf118 Preparation of bone-like material based on collagen/ β -turn peptide composite scaffold
Mio Takada, Shogo Matsubara, Masahiro Higuchi
- 2Pe119 Analysis of selective permeability of several materials induced by structural difference of gelatin networks.
Tamaki Maeda, Syuuhei Komatsu, Akihiko Kikuchi, Yoshihiro Nomura, Kazuki Murai
- 2Pf120 Creation of biomembrane hybridization method for nanoparticles and evaluation of membrane properties and functions
Keigo Ukyo, Shin-ichi Sawada, Eisuke Kanao, Yoshihiro Sasaki, Kazunari Akiyoshi
- 2Pe121 Multivalent Metal Ions-Induced Thermoresponsiveness of Carboxylated Polyallylamines
Junya Emoto, Yukiya Kitayama, Eiji Yuba, Atsushi Harada
- 2Pf122 Water-soluble polymers for manipulation of liquid-liquid phase separation
Genki Higuchi, Noriyuki Uchida, Takahiro Muraoka
- 2Pe123 Incorporation of Fluorescent Molecules into Cellulose-based Bilayer Assemblies for Application to Cellulase Detection
Koichi Shirokawa, Toshiki Sawada, Takeshi Serizawa
- 2Pf124 High-throughput phase diagram construction for thermo-responsive polymers assisted by machine-learning-based multiple suggestions of experiments
Naoki Matsuoka, Yasuyuki Nakamura, Ryo Tamura, Masanobu Naito
- 2Pe125 Design of homogeneous oligomer ligand-modified liposomes for neutralizing target toxins in blood.
Takumi Okamoto, Hiroyuki Koide, Yu Hoshino, Naoto Oku, Tomohiro Asai

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Wed. Sep 7

Presentation Time

<a = 10:20~11:00>

<b = 11:00~11:40>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 3Pa001 Development of Self-Immolative Polymers by Click Living Polymerization
Yuto Nakauchi, Tomohiro Kubo, Kotaro Satoh
- 3Pb002 Thionoester Linkage Introduction via Ring-Opening Copolymerization of Lactones for Improved Degradability
Andrea Mialdea Molina, Tomohiro Kubo, Kotaro Satoh
- 3Pa003 Radical and hydrogen transfer polymerizations of polar vinyl monomers by Lewis pair catalysts
Riki Akita, Mayo Horibe, Shin-ichi Matsuoka, Masato Suzuki
- 3Pb004 Synthesis of Alternating Polypeptides between Cysteine and Amino Acids by Using Thioester-Amide Rearrangement
Koya Yamakita, Raimu Kawai, Shin-ichi Matsuoka, Koji Takagi, Masato Suzuki
- 3Pa005 Novel Polymerization of α,β -Unsaturated Acylsilane with Brook Rearrangement
Tomoki Yoshimatsu, Ryo Sato, Shin-ichi Matsuoka, Koji Tagagi, Masato Suzuki

- 3Pb006 Anionic polymerization of epoxide via Brook rearrangement
Asuka Hamaguchi, Masaya Terasaki, Kaoru Adachi
- 3Pa007 Synthesis and Properties of Cross-Stacked Polymers Composed of Orthogonally Arranged pi-Electronic Systems
Lukai Wan, Heng Wang, Masayoshi Bando, Zhiyi Song, Tamaki Nakano
- 3Pb008 Preparation and elongation of chiral syndiotactic styrene trimers
Sorachi Saito, Yuma Tanaka, Naoki Fukaya, Kazutada Ikeuchi, Keitaro Matsuoka, Keiji Tanino, Kenta Kokado, Kazuki Sada
- 3Pa009 Preparation of EDOT-Containing Poly(arylenevinylene) Film Using Vapor Deposition Polymerization
Tomoya Enoki, Takahiro Uno, Masashi Tamura, Masataka Kubo
- 3Pb010 Development of bio-based carbonate resin using citric acid
Ryo Okita, Kozo Matsumo
- 3Pb012 Lewis pair anionic polymerization of n-butyl acrylate using boron compounds as a Lewis acid
Yuka Naganawa, Shin-ichi Matsuoka, Masato Suzuki
- 3Pa013 Reactivity of hydrocarbon exomethylene monomers
Karen Kawazome, Raita Goseki, Takashi Ishizone
- 3Pb014 Anionic self-alternating polymerization and intramolecular-intermolecular alternating polymerization of AB-type divinyl monomers
Hamin Kim, Raita Goseki, Takashi Ishizone
- 3Pa015 Development of initiators for anionic polymerization using desilylation of benzylsilanes with metal alkoxide.
Masaya Terasaki, Yujiro Hiraki, Kaoru Adachi
- 3Pb016 Development of anionic vinyl polymerization initiator using desilylation of benzyltrimethylsilanes
Daichi Fuyuki, Kosuke Nakano, Kaoru Adachi

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A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 3Pa017 Synthesis of multibranched polymers by desilylation reaction of poly(p-trimethylsilylmethylstyrene)
Yujiro Hiraki, Masaya Terasaki, Kaoru Adachi
- 3Pb018 Development of TMEDA-free lithiation reaction and application to macroinitiators
Honoka Matsumoto, Kaoru Adachi
- 3Pa019 Anionic Polymerization of Methyl Methacrylate with Dilithium Tetra-tert-butylzincate- Characterization of the Chain Ends-
Masayoshi Watanabe, Tomohiro Hirano, Koichi Ute, Miyuki Oshimura
- 3Pb020 Ring-opening (co)polymerization of α -amino acid carboxyanhydrides and L-lactide using tetraalkylammonium carboxylates as initiators
Ken Watanabe, Miyuki Oshimura, Tomohiro Hirano, Koichi Ute
- 3Pa021 Controlled Cationic Polymerization of Styrenes with Tellurium-containing Redox-active Catalysts
Shuhei Hayashi, Koji Takagi
- 3Pb022 Cationic Ring-Opening Copolymerization of Trioxane and 1,3-Dioxepane Comonomers with Various Substituents
Kaho Sakamoto, Mariko Higaki, Takahiro Uno, Masataka Kubo, Takahito Itoh, Tomohiro Monma, Hatsuhiko Harashina
- 3Pa023 Synthesis and Polymerization of ortho-Quinone Methides with Methyleneedioxy Group
Ryousuke Shigemori, Takefumi Nakanishi, Takahiro Uno, Masataka Kubo

- 3Pb024 Ring-expansion polymerization of thiiranes using aromatic cyclic anhydrides as initiators
Koki Okumura, Saki Yasuda, Tomoya Kaneko, Akira Takahashi, Atsushi Kameyama
- 3Pa025 Study on Control of Grafted Chains by Radiation Induced RAFT Graft Polymerization
Noriaki Seko, Natsuki Hayashi, Jinhua Chen, Madrid Jordan F, Hiroyuki Hoshin, Yuji Ueki

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 3Pa027 Effects of dispersion characteristics of melanin particles in the presence of ionic liquids on the particle assembled structure
Mai Urase, Keiki Kishikawa, Michinari Kohri
- 3Pb028 Preparation of structural color films using polymer brush-modified melanin particles
Daiki Yoshioka, Keiki Kishikawa, Michinari Kohri
- 3Pa029 Preparation of melanin-based structural color materials using Fenton reaction
Ayano Shirai, Keiki Kishikawa, Michinari Kohri
- 3Pb030 Preparation and magnetic properties of amorphous metal-organic-framework particles using holmium as the metal species
Nao Komiyama, Yuta Fujita, Keiki Kishikawa, Michinari Kohri
- 3Pa031 Fabrication of magnetic molecular assemblies based on dinuclear holmium complex
Yoshiki Maeda, Keiki Kishikawa, Michinari Kohri
- 3Pb032 Crystal shape change and functionalization of diacetylene derivatives doped with holmium
Sojiro Isomura, Keiki Kishikawa, Michinari Kohri

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B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 3Pa033 Surface Modification of Polymer Particles by Aqueous Metal-Free Photo-Induced Atom Transfer Radical Polymerization of Amine Monomer
Risa Sugihara, Daiya Shimizu, Daisuke Aoki, Tatsuo Taniguchi, Takashi Karatsu
- 3Pb034 Preparation of π -conjugated polymer brushes by surface-initiated polymerization.
Taisuke Takano, Takehiro Kawauchi
- 3Pa035 Preparation of non-spherical liquid crystal capsules for flexible liquid crystal displays
Atsuya Kato, Daisuke Aoki, Taniguchi Tatsuo, Takashi Karatsu
- 3Pb036 Stimuli-responsive polymer aggregate with sulfobetaine as a shell
Dongwook Kim, Hideki Matsuoka, Yoshiyuki Saruwatari
- 3Pa037 Characterization and application of G-quadruplex DNA-functionalized nanoparticles
Masahiro Fujita, Mizuo Maeda
- 3Pb038 Graphene Oxide as 2D Cationic Photoinitiator and Photoluminescence Enhancement
Katsuki Kanazawa, Yu-uta Yonenaka, Kenta Kikuchi, Koudai Abe, Yu-uki Inose, Mahiro Ohtaki, Masahito Sano
- 3Pa039 Preparation of Polysaccharide Composite Films by Heat Stretching Techniques Using Hyaluronic Acid and Its Derivatives
Daisuke Ito, Takuya Sagawa, Mineo Hashizume
- 3Pb040 Differences in photo-oxidation of fluorinated self-assembled monolayers between UV/O₃ and vacuum UV exposure
Kanta Kawasaki, Rie Shishido, Hiromasa Niinomi, Akiko Onuma, Masaru Nakagawa
- 3Pa041 Synthesis of polyimide particles using reactive dispersant
Riku Yamaguchi, Daiki Goto, Takeshi Namikoshi, Shinji Watanabe

- 3Pb042 Analysis of the formation mechanism of pseudo-polyrotaxane nanosheets
Riku Kanno, Shuntaro Uenuma, Hideaki Yokoyama, Kohzo Ito
- 3Pa043 Infrared spectroscopic evaluation of reactivity between monomers used in vapor deposition polymerization
Ryo Tabata, Ryosuke Matsubara, Atsushi Kubono
- 3Pb044 Polymer topology effects on the thermoresponsive behaviors of cyclized PEG and Pluronic
Tomohisa Watanabe, Daichi Ida, Akiyuki Ryoki, Takuya Yamamoto
- 3Pa045 Analysis on the adsorption properties of cyclic poly(ethylene glycol) onto the surface of nanoparticles
Akira Takatsuka, Tomohisa Watanabe, Takuya Yamamoto
- 3Pb046 Salt Effects on Self-Assemblies of Phosphobetaine Polymers
Shu Morita, Dongwook Kim, Hideki Matsuoka, Yoshiyuki Saruwatari
- 3Pa047 An Random Copolymer Exhibits Microphase Separation: Sphere to Ultrathin-Plate Transition Induced by pH in rPSAA
Anh Doan, Yuka Kitajima, Shota Fujii, Kazuo Sakurai
- 3Pb048 Synthesis of crosslinked polymer particles using the difference in radical reactivity
Yangyang Bai, Shimomoto Hiroki, Ihara Eiji, Itoh Tomomichi

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B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 3Pa049 Development of low viscosity Ni particle dispersion for conductor paste
Seiya Yamamoto, Kazushi Enomoto, Moriya Kikuchi, Masao Asada, Hideharu Okami, Kenji Fukuda, Tatsuo Aikawa, Seigou Kawaguchi
- 3Pb050 Elucidating protein adsorption behavior on crystalline cellulose film by molecular dynamics simulation
Sawa Ishii, Hiromi Tsuyuki, Takeshi Serizawa, Go Watanabe
- 3Pa051 Aromatic Micelles: Catch and Release of Unsubstituted π -Conjugated Polymers in Water
Shinji Aoyama, Lorenzo Catti, Michito Yoshizawa
- 3Pb052 Interfacial cellular culture on polydopamine film synthesized via interfacial polymerization
Hiroya Abe
- 3Pa053 Barnacle settlement behaviors on the micro-patterned SAMs surface with two different functional groups
Jumpei Watanabe, Takayuki Murossaki, Yasuyuki Nogata, Masatsugu Shimomura, Yuji Hirai
- 3Pb054 Effect of Plasma Gas Species on Thin Film Formation Process and Film Properties in Atmospheric Pressure Plasma CVD
Kenichi Yamazaki, Hiroyuki Yasui, Hinako Suematsu, Tsuyoshi Noguchi, Yuma Suenaga, Akitoshi Okino
- 3Pa055 Reversible formation of gold nanoparticle-vesicles and their formation mechanism
Ryo Sugiyama, Hideyuki Mitomo, Yusuke Yonamine, Kuniharu Ijiri
- 3Pb056 Polymer aggregate with dual temperature responsiveness
Yuta Edasawa, Dongwook Kim, Hideki Matsuoka

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 3Pa057 Effect of long alkyl side chains on operating temperature of shape memory gel.
Daiki Hinata, Jin Gong

- 3Pb058 Development of Gel Actuators Driven by Bipolar Electrochemistry
Taichi Hino, Keiichi Imato, Naoki Shida, Shinsuke Inagi, Ichiro Imae, Yousuke Ooyama
- 3Pa059 Structural design of self-oscillating droplets that achieve both macroscopic sol-gel and volumetric transitions simultaneously.
Itaru Tomikawa, Enomoto Takafumi, Terui Keita, Aya M. Akimoto, Ryo Yoshida
- 3Pb060 The development of fluorenon-based supramolecular gels
Mao Suzuki, Atsushi Seki, Ken'ichi Aoki
- 3Pa061 Fast and Large Motion of Self-Oscillating Gels based on High Diffusivity Induced by Phase-separated Structures
Jaewon Choi, Taehun Chung, Ryo Yoshida, Youn soo Kim
- 3Pb062 Helical-shaped Thermoresponsive Hydrogels Showing Anisotropic Deformation
Nagyeong Jeon, Taehun Chung, Ryo Yoshida, Youn Soo Kim
- 3Pa063 Development of Novel Hydrogel Catalyst System with Interpenetrating Polymer Networks
Minghao CHEN, Junta SANO, Shigeki HABAUE
- 3Pb064 Preparation of Cation Exchange Resin Encapsulated Hollow-type Spherical Bacterial Cellulose Gels and Evaluation of Their Potassium Adsorption Ability
Genki Takano, Toru Hoshi, Takao Aoyagi
- 3Pa065 Reinforcement of self-assembled fibers of low-molecular-weight gelators containing coumarin moieties
Momoka Okajima, Nanako Matsuo, Kazuhiro Yabuuchi, Masaya Moriyama
- 3Pa067 Photoconversion of Cross-linked Polymers having Photochromic Naphthacenequinone Structures under Existence of Amines
Aya Miyashita, Ikumi Shimada, Yusuke Koba, Yukiko Kawasoe, Takunori Harada, Masaya Moriyama
- 3Pb068 Gelation of kojic acid and its application to stimulus-responsive gels
Koumei Harajiri
- 3Pa069 The effects of multi-componentization of gelators on photo-induced reinforcement of supramolecular gels
Shunki Sasamoto, Kazuhiro Yabuuchi, Masaya Moriyama
- 3Pb070 Encapsulation of Activated Carbon Particles with Small Diameter Hollow-type Spherical Bacterial Cellulose Gel Aimed at Symptomatic Improvement of Uremia
Kaito Sato, Toru Hoshi, Takao Aoyagi
- 3Pa071 Physical properties of CNT-added self-healing gel
Tomoyuki Takata, Satoshi Aoki, Jin Gong
- 3Pb072 Synthesis of Polymer Gels with Thermoresponsive Crosslinked Domains Containing Iridium Complex for Ammonia Sensing and Catalytic Reaction
Shohichi Furukawa, Shohei Ida, Ken-ichi Fujita

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C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 3Pa073 Synthesis of Three-Component Hybrid IPN Gel Containing Chitosan Derivatives
Takuya TSUKAMOTO, Baoguo Ma, Akari KACHI, Gen YAMAKAWA, Junta SANO, Shigeki HABAUE
- 3Pb074 Synthesis of Ternary Interpenetrating Polymer Networks (IPN) Gel Containing polyurethane Derivatives
Chima Hasegawa, Reina Tomita, Junta Sano, Shigeki Habaue
- 3Pa075 Immobilization of Peroxidase on the Surface of Poly(chloromethyl styrene) Particles Encapsulated in a Hollow-type Spherical Bacterial Cellulose Gel.
Takenori Oda, Toru Hoshi, Takao Aoyagi

- 3Pb076 Fabrication of PEDOT:PSS Electrodes by Thermal Transfer Method and Application to Flexible Sensors
Kanako Matsushita, Takaya Furuyama, Liang Tian, Hidenori Okuzaki
- 3Pa077 Synthesis of Self-healable Gels with Heat-reversible Crosslinking Points
Satoshi Aoki, Tomoyuki Takata, Jin Gong
- 3Pb078 Gelation properties of low-molecular-weight gelators easily obtained by the combination of commercially available reagents
Takuya Senda, Tomohiro Momiyama, Kazuhiro Yabuuchi
- 3Pa079 Preparation of Polyurethane-Poly(ethyl acrylate) Hydrogels by Simultaneous Dual Polymerization of Radical Polymerization and Polyaddition and investigation of These Mechanical Properties
Ryo Kawatani, Yasuhiro Kohsaka
- 3Pb080 Development and functionalization of hydrogel adsorbent for selective separation of target molecules.
Takahide Takenami, Naoki Suda, Takuma Kureha
- 3Pa081 Synthesis and properties of self-healing slide-ring hydrogels crosslinked by Diels-Alder reaction
Tsuyoshi Takigawa, Masatoshi Kidowaki, Takayuki Kato, Mikihiko Tsubouchi
- 3Pb082 Temperature-responsive hydrogels based on polysaccharides.
Naofumi Fujiwara, Kazunari Yoshida
- 3Pa083 Synthesis and property of carboxylated slide-ring hydrogels using photodimerization of cinnamic acid for crosslinking
Takahiro Fujita, Masatoshi Kidowaki, Takayuki Kato, Mikihiko Tsubouchi
- 3Pb084 Effect of solution absorbability of copolymer gels bearing a sulfo group on their catalytic activities for acetalization and esterification
Hideaki Tokuyama, Hiroki Ohno, Tara Fujita
- 3Pa085 Development of diacetylene derivatives that can control luminescence color by external stimuli
Subaru Hoshi, Kyosuke Isoda, Masahiro Funahashi
- 3Pb086 Development of stimuli-responsive photoluminescent liquid materials and their external stimuli-responsive behavior
Kyosuke Isoda, Masafumi Kawabe, Yuya Tanabe
- 3Pa087 Novel stimuli-response of poly(4-hydroxystyrene)
Kota HASHIMOTO, Natsuki INABA, Keitaro MATSUOKA, Kazuki SADA
- 3Pb088 Development of light conversion film using polybutylene succinate having aggregation-induced emission unit in the main chain
Yuta Takei, Kohei Iritani, Ayumi Kobayashi, Takashi Yamashita
- 3Pa089 Polymerization of Organohalogenochromic Dye
Kumpei Kozuka, Keiichi Imato, Yousuke Ooyama
- 3Pb090 Mechanical Properties of Cross-Linked Polybutadiene Films Containing Azobenzenes in the Side Chains
Midori Ishii, Yumiko Naka, Takeo Sasaki, Khoa V. Le
- 3Pa091 Photoinduced Change in Mechanical Properties of Polymers with Viologens at the Side Chains.
Takumi Takahashi, Yumiko Naka, Takeo Sasaki, V. Khoa Le
- 3Pb092 Synthesis of Polymers Ion-Crosslinked by Viologens and Their Mechanical Properties
Rin Shimizu, Yumiko Naka, Takeo Sasaki, van Khoa Le
- 3Pa093 Unique Deformation and Locomotion Performance of Soft Actuator with Auxetic-typed Armored Structure
Shuntaro Kondo, Yukihide Tashiro, Hiroshi Endo
- 3Pb094 Design and Dynamic Performance of Mechanical Metamaterials based on 3D Chiral Transformation

Sho Kazuguchi,Yukihide Tashiro,Hiroshi Endo

- 3Pa095 Construction of Auxetic 3D deformation mechanism using by multiple simultaneous expansions of bellows-typed tube
Yuki Honda,Yukihide Tashiro,Hiroshi Endo
- 3Pb096 Effects of topological defects on the bond exchange properties of vitrimer
Takaya Inaba,Mikihiro Hayashi

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D. BIOPOLYMERS AND BIORELATED POLYMERS

- 3Pa097 Development of Novel Blood-compatible Acrylic Coating Polymer for Medical Devices
Shota Taniguchi,Kenichi Nakamura,Masaru Tanaka
- 3Pb098 Preparation and characterization of glucose-responsive core-corona type particles under physiological condition.
Fumihide INOUE,Syuuhei KOMATSU,Taka-Aki ASOH,Akihiko KIKUCHI
- 3Pa099 Design of Laser-actuatable Shape-memory Polymers for Minimally Invasive Fetoscopic Surgery
Fulati Ailifeire,Koichiro Uto,Miho Watanabe,Mitsuhiro Ebara
- 3Pb100 Fluorescence Characterization of a Hairpin DNA-Gold Nanoparticle Monoconjugate with a Single-Dye Molecule for Targetable Molecular Beacon Strategies
Ayaka Komatsu,Yoshitsugu Akiyama,Masao Kamimura
- 3Pa101 Formation of MPC monolayer on the surface of epoxidized PE prepared by scCO₂ and its surface properties
Yuki Matsui,Toru Hoshi,Takao Aoyagi
- 3Pb102 Potentiometric detection of new coronavirus spike proteins using DNA aptamers-modified gold electrodes.
Yumeka Murayama,Tatsuro Goda
- 3Pa103 Design of Zeolite Incorporated Nanofiber Meshes for the Removal of Indoxyl Sulfate in Blood of Patients with Chronic Kidney Disease
Makoto Sasaki,Yihua Liu,Mitsuhiro Ebara
- 3Pb104 Design of immune-activated polysaccharide nanogels and application to vaccine carriers
Yuki Yazawa,Shin-ichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi
- 3Pa105 Development of PEG-terminated amphiphilic fluorescent probes and Visualization of plasma membrane
Takuya Tanaka,Atsushi Matsumoto,Yuki Maekawa,Koya Tsuzimura,Nobuaki Matsumori,Junichi Ikenouchi,Gen-ichi Konishi
- 3Pb106 A molecular dynamics study of protein adsorption on biocompatible polymer brushes
Hiromi Tsuyuki,Tomoya Ueda,Shinnosuke Nishimura,Shohei Shiimoto,Daiki Murakami,Masaru Tanaka,Go Watanabe
- 3Pa107 Design and Property of Zwitterionic Sulfobetaine-Modified Poly(buthylene succinate) and its Copolymer Films and Their Cell Adhesion
Nalinthip CHANTHASET,Utana Narukawa,Hiroaki Yoshida,Hiroharu Ajiro
- 3Pb108 Photoresponsive hydrogel layers for image-based single-cell sorting
Xueyang Li,Satoshi Yamaguchi,Renjiro Uehara,Shinya Yamahira,Akimitsu Okamoto
- 3Pa109 Preparation and characterization of the phospholipid polymer brushes using the adhesive macroinitiator
Sora Hashimoto,Tsukuru Masuda,Madoka Takai
- 3Pb110 Development of Sensor protein-encapsulated core-shell fibermats
Yuna Kato,Toshihisa Mizuno

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 3Pa113 Fabrication of Calcium Carbonate Coated Vesicles Having Target Recognition and the Drug Release Control
Nana Kato, Shogo Matsubara, Masahiro Higuchi
- 3Pb114 Lung and spleen selective mRNA delivery by lipid nanoparticles composed of amino-functionalized poly(ϵ -caprolactone) derivatives
Yuta Mizukami, M. Abd Elwakil Mahmoud, Yusuke Sato, Takuya Isono, Takuya Yamamoto, Kenji Tajima, Hideyoshi Harashima, Toshifumi Satoh
- 3Pa115 End-group functionalization of biocompatible poly(vinyl ether) and evaluation of cellular uptake of poly(vinyl ether)-modified gold colloids
Kento Fujiura, Mitsuru Naito, Seiichi Ohta, Kanjiro Miyata
- 3Pb116 Fine-tuning of molecular design for enhanced blood circulation of single-oligonucleotide-loaded unit polyion complex
Mitsuru Naito, Hiroyuki Chaya, Masaru Cho, Kazuko Toh, Koutaro Hayashi, Shigeto Fukushima, Kazunori Kataoka, Kanjiro Miyata
- 3Pa117 Size-tunable graft copolymers, nanoruler, for passive targeting muscle tissues
Mitsuru Naito, Yusuke Watanuki, Kazuko Toh, Jongmin Yum, Masaru Cho, Hiroyuki Chaya, Yuichi Yamasaki, Kensuke Osada, Kanjiro Miyata
- 3Pb118 Development of temperature-responsive polyion complex structures capable of sustained release of nucleic acid-based polymeric micelles
Hiroshi Kamizawa, Rento Ota, Ziwei Ma, Teruki Nii, Takeshi Mori, Yoshiki Katayama, Akihiro Kishimura
- 3Pa119 Biodegradable photothermal polymer micelles for specific manipulation of thermo-responsive TRPV1 channel
Taiki Onoe, Wei-Hsu Chen, Yutaro Matsushita, Masao Kamimura

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Presentation Time

<c = 13:20~14:00>

<d = 14:00~14:40>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 3Pc001 Synthesis of One-Handed Helical Spiro-Conjugated Ladder Polymers Containing Optically Active 9,9'-Spirobifluorene Units and Their Use as Chiral Stationary Phases
Takehiro Matsumoto, Yoshiki Kato, Tomoyuki Ikai, Kosuke Oki, Eiji Yashima
- 3Pd002 Synthesis of a Fully- π -Conjugated Ladder Polymer Composed of [4]Helicine-Based Repeating Units with Dynamic Chirality and Its Optical Properties
Hayato Inagaki, Tomoyuki Ikai, Eiji Yashima
- 3Pc003 Synthesis and Optical Properties of Novel U-Shaped π -Conjugated Ladder-Type Molecules
Koichi Izaki, Tomoyuki Ikai, Eiji Yashima
- 3Pd004 Synthesis and Macromolecular Helicity Control of Poly(biphenylacetylene)s Bearing [5]Helicene Pendants with Dynamic Chirality
Shun Anzai, Tomoyuki Ikai, Eiji Yashima
- 3Pc005 Synthesis of poly(phenylacetylene)s introduced host-guest interaction site at the end
Haru Nozue, Li Feng, Tsuyoshi Taniguchi, Tatsuya Nishimura, Tomoki Ogoshi, Katsuhiko Maeda
- 3Pd006 Synthesis of mono-substituted polyacetylene bearing optically active borneo-group
Toru Kita, Kyoka Komaba, Hiromasa Goto

- 3Pc007 Helix Polymer Charge Transfer Complex Prepared in Cholesteric Liquid Crystal
Takuya Yonehara, Hiromasa Goto
- 3Pd008 Construction of Stimuli-Responsive Conjugated Polymer Using Hypervalent Compounds
Keisuke Shibahara, Yuusuke Morisaki, Masayuki Gon, Kazuo Tanaka
- 3Pc009 Development of Carborane-Containing Conjugated Polymer for Solid-State NIR Luminescence
Kazuhiro Yuhara, Kazuo Tanaka
- 3Pd010 Water Solubilization of Near-Infrared Emissive π -Conjugated Polymers by Protein Adsorption and Their Optical Properties
Dahye Yoo, Masashi Nakamura, Misato Kanjo, Masayuki Gon, Kazuo Tanaka
- 3Pc011 Synthesis and optical properties of cyclic compounds containing naphthalenediimide and curved donor terarylenes by means of unstoichiometric Suzuki-Miyaura polycondensation
Shota SUZUKI, Ryota SHIMADA, Yoshihiro OHTA, Izumi IWAKURA, Tsutomu YOKOZAWA
- 3Pd012 Development of novel polyindazoles
Hidetoshi Okuzaki, Masaru Kondo, Tomohiro Agou, Hiroki Fukumoto
- 3Pc013 Development of semiconducting polymers with twisted stress relaxation units in their main chains for the application to organic field-effect transistors using stretched thin films
Tomoya Yahagi, Yuto Ochiai, Tomoya Higashihara

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B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 3Pc017 Effects of Silane Coupling Agents on the Nanoscale Ductile Fracture Behaviors of Silica Nanoparticle-dispersed Rubbers
Daisuke Watanabe, Tomohiro Miyata, Hironori Marubayashi, Hiroshi Jinnai
- 3Pd018 Structure and properties of isosorbide-based polycarbonate containing biobased plasticizer
Ruiqi Han, Takumitsu Kida, Masayuki Yamaguchi
- 3Pc019 Blend composition at surface of injection-molded products comprising miscible blends of polycarbonate and poly(methyl methacrylate)
Nantina Moonprasith, Takumitsu Kida, Masayuki Yamaguchi
- 3Pd020 Primary Particle Size Effect on Physical Properties for the Polystyrene Composite with Mixed Fumed Silica Having Different Surface Properties
Momona Fukuura, Yoshihisa Fujii, Naoya Torikai
- 3Pc021 Cryo-STEM-EELS Analysis of Conventional Polymers
Kiyoshi Yase, Takeshi Hanada, Naohiro Yamahira, Kazumasa Shimamoto, Nao Terasaki, Haruhisa Akiyama, Shin Horiuchi
- 3Pd022 Study on durability of cellulose fiber-added polyethylene.
Shuta Iwai, Katsuhisa Tokumitsu, Hiroki Takeshita, Kazuaki Sakaguchi, Masahiro Yamada
- 3Pc023 AFM nanomechanics of thermoplastic elastomer blends
Makiko Ito, Airi Sato, Haonan Liu, Xiaobin Liang, Ken Nakajima, Ryohei Hosoya, Hiroshi Morita
- 3Pd024 Molecular Mechanism of Baroplastic Behavior of Block Copolymers: Effects of Voids
Hiroki Degaki, Ikuro Taniguchi, Shigeru Deguchi, Tsuyoshi Koga
- 3Pc025 A study on blends for high-pressure hydrogen tanks
Naoya Osada, Katsuhisa Tokumitsu, Hiroki Takeshita, Eichi Nishi, Toru Sasaki, Shin Nishimura, Hirotada Fujiwara

- 3Pd026 Reinforcement Effects on Carbon Fiber Reinforced Thermoplastics with Poly(ether ether ketone) / Nanodiamond Composite Matrix
Jun Iwata, Chiharu Tominaga, Takuya Matsumoto, Yasuo Gotoh, Takashi Nishino
- 3Pc027 Phase Transition Behaviors and Hierarchical Structures of Semi-Interpenetrating Polymer Networks consisting of rubber and crystalline resin
Rikuto Oosaka, Noboru Osaka, Misaki Okufuji
- 3Pc029 Synthesis of a polyacetylene derivative bearing aspirin with chiral charge carrier "chiralions"
Mai Ichikawa, Hiromasa Goto
- 3Pd030 Twist-bend nematic liquid-crystal prepared by bridged stilbene structure
Sheng Bi, Gen-ichi Konishi
- 3Pc031 π -extended bridged-stilbene liquid crystals: room-temperature nematic liquid crystal and high birefringence
Riki Iwai, Gen-ichi Konishi
- 3Pd032 Thermal conductivity of main-chain polymer liquid crystal model compounds by molecular dynamics simulation
Hidemine Furuya, Akinori Akatsuka

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C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 3Pc033 Control of nanophase separated morphology in mixed monolayers composed by hydrogenated and fluorinated amphiphiles containing s-triazine ring
Yoshiki Shioda, Momo Maeda, Atsuhiko Fujimori
- 3Pd034 Surface-modification effect on nanodiamond obtained by detonation method and adsorption and immobilization of biomolecules on its interfacial single particle layer
Kei Obuchi, Yuna Yamada, Atsuhiko Fujimori
- 3Pc035 Adhesion of an acryl film to a glass substrate using the Cu-free click reaction
Yusuke Kanki, Sayuki Kanemitsu, Shota Yamamoto, Koki Miyahara, Kenta Morita, Tatsuo Maruyama
- 3Pd036 Development of Hydrophobic Hydrogen Bonding Motif for Underwater Application
Kohei Kikkawa, Yoshimitsu Itoh, Takuzo Aida
- 3Pc037 Regulation of protein adsorption abilities to peptide brushes having various polarities and ionicities.
Yuya Kobayashi, Shogo Matsubara, Masahiro Higuchi
- 3Pd038 Comprehensive analysis and molecular understanding for tensile, shear, and peel adhesion forces of epoxy resins based on quantum chemical calculations
Yosuke Sumiya, Yuta Tsuji, Kazunari Yoshizawa
- 3Pc039 The Analysis of Adhesion Interaction at the Interface between Zirconia-dental materials and Phosphate Adhesives : A Density Functional Theory Study
Takahiro Uwabe, Yosuke Sumiya, Kazunari Yoshizawa
- 3Pd040 Evaluation of adhesive properties of glycidate-anhydride curing systems for environmentally compatible dismantlable adhesives
Kota Okumura, Bungo Ochiai
- 3Pc041 Dismantling from Adhesion Interface Induced by Stimulus-Responsive Molecular Layer Consisted with Anthracene Moieties
Miho Aizawa, Haruhisa Akiyama, Yoko Matsuzawa
- 3Pd042 Properties of Poly(ethylene terephthalate) Copolymer Adhesives and Adhesion with Different Polymer Adherends
Ai Tamai, Takuya Matsumoto, Takashi Nishino

- 3Pc043 Synthesis and properties of composite materials of glycol lignin/solvent-soluble polyimide bearing methacrylic groups and their electrodeposition properties
Yasuhiro Funayama, Ayumi Kobayashi, Rumana Nozawa, Kohei Iritani, Daisuke Misho, Hideyuki Kikuchi, ThiThi Nge, Tatsuhiko Yamada, Takashi Yamashita
- 3Pd044 Growth control of gold nanoparticles immobilized on an amino group-displayed plastic substrate
Sarina Yoshida, Takane Tsuchi, Mimari Matsumoto, Kenta Morita, Tatsuo Maruyama
- 3Pc045 Fabrication of polymer brush to control the orientation of rod-shaped gold nanoparticles
Yu Sekizawa, Hideyuki Mitomo, Yusuke Yonamine, Takuya Isono, Kenji Tajima, Toshifumi Satoh, Kuniharu Ijro
- 3Pd046 Synthesis of polyesters having zwitterionic structure and their interfacial properties
Rika Itomitsu, Akifumi Kawamura, Takashi Miyata
- 3Pc047 Preparation of Strain Sensors by Mimicking the Structure of Spider Silk Mucous Spheres by Making Artificial Fiber Threads
Taro Echizen, Olaf Karthaus
- 3Pd048 Observation of Surface and Cross-Section of Galvanized Sheet Iron by Laser Radiation
Kiyoshi Yase, Noriyuki Saito, Takeshi Hanada, Naohiro Yamahira, Kazuniro Kawasaki, Kazumasa Shimamoto, Nao Terasaki, Haruhisa Akiyama, Shin Horiuchi

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C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 3Pc049 Meniscus-Climbing of Bending Elastomer Film Containing Liquid Metal by Near-Infrared Laser Irradiation
Minami Taya, Hizuma Takahashi, Hiroshi Endo
- 3Pd050 Synthesis of polymeric dyes and development of colour particles for inkjet applications.
Kaito Nishijima, Kazushi Enomoto, Moriya Kikuti, Seigou Kawaguchi
- 3Pc051 Fabrication of metal substrates with micro-protrusion using polymer molds and analysis of anisotropic wetting behaviors
Sumire Isachi, Daisuke Ishii
- 3Pd052 The effect of the structural parameters of the metal micro groove structure on the friction force.
Yohei Shimada, Yuji Hirai, Masatsugu Shimomura
- 3Pc053 Synthesis of Core Cross-linked Star Polymers by Living Coordination Copolymerization of Allene Derivatives Under Polymerization-induced Self-assembly Conditions and Their Applications to Superhydrophobic Surfaces and Slippery Liquid-infused Porous Surfaces
Yidan Cheng, Takeshi Wakiya, Shinsuke Inagi, Ikuyoshi Tomita
- 3Pd054 Morphology Control and Surface Properties of Hydrophobic Polymer Films via Air Plasma Treatment
Shintaro Yasuda, Fujii Yoshihisa, Naoya Torikai
- 3Pc055 Hydrophilic Polymer Membrane with Microstructure and the Influence of Surface Characteristics by the Changes in Surface Morphology
Tatsuya Takeshima, Junji Watanabe
- 3Pd056 Polymer surface modification by UV-induced chemical reactions in presence of hydrogen peroxide
Masaya Moriyama, Nanami Katakura, Nozomu Okizawa, Ryotaro Takayama
- 3Pc057 Measurement of Adhesion Force of Live Cypris on the Coating Film of Polymer-grafted Silica Nanoparticle

Ryota Sato, Yasuyuki Nogata, Motoyasu Koubayashi

- 3Pc061 Monolayers and gold nanoparticle composite monolayers of hydrophobic poly(alkyl thiophene)s by cospread method with liquid crystal molecule
Taikai MATSUDA, Yuya ISHIZAKI, Syusaku NAGANO
- 3Pd062 Photoresponse and Mass Transportation of an Amphiphilic Azotolan Liquid Crystal
Anna Tamai, Ayumi Kobayashi, Kohei Iritani, Takashi Yamashita
- 3Pc063 Stimuli response properties of cholesteric liquid crystal elastomers in various deformation modes
Saki Mori, Tomohiro Yasui, Shinichi Sakurai, Nobutaka Shimizu, Hideaki Takagi, Kenji Urayama
- 3Pd064 Lyotropic liquid crystalline characters and sheared-oriented films of Self-doped Polythiophene
Motoaki ONISHI, Hirokazu YANO, Hidenori OKUZAKI, Shusaku NAGANO
- 3Pc065 Design of columnar liquid crystal monomers for fixing 1D stacked assemblies of pi-conjugated molecules
Shion Rai, Hironobu Iwasawa, Takahiro Ichikawa
- 3Pd066 Cholesteric Liquid Crystalline Elastomer Films of Cellulose Derivatives That Reflect Both Right and Left Circularly Polarized Light
Yuki Ogiwara, Kazuma Matsumoto, Naoto Iwata, Seiichi Furumi
- 3Pc067 Analysis of molecular conformation and self-organization behavior of ionic fan-shaped liquid crystal molecules with atropisomerization ability
Soki Obara, Keiichi Noguchi, Toshiyo Kato, Takahiro Ichikawa
- 3Pd068 Self-organization control of a polymerizable amphiphile using ionic liquids as solvents for creating nanostructured membranes
Daisuke Uchida, Takahiro Ichikawa
- 3Pc069 Evaluation of Liquid-Crystalline Behavior of Tropolonates Containing Phosphonium Moieties with Long Alkyl Chains and Their Applications to Functional Soft Materials
Akane Goshima, Sakiko Murakumo, Akihiko Kanazawa
- 3Pd070 Thin film and polymerization of liquid crystal compounds with imidazolium salt and siloxane ring in perylene bisimide
Masahiro Funahashi, Kosei Okamoto, Masashi Tanaka
- 3Pc071 Development and evaluation of LC mixed conductors based on perylene bisimide bearing triethylene oxide chains
Masahiro Funahashi, Kurumi Suemoto, Tastuaki Kajiwara, Masahiro Funahashi
- 3Pd072 Preparation of polymeric carriers having diol groups for benzoxaborole-based drug
Kota Katsube, Yohei Kotsuchibashi

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C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 3Pc073 Bridged biphenyls as a new building block for design of well-processable functional liquid crystals and polymers
Yoshimichi Shimomura, Gen-ichi Konishi
- 3Pd074 Electroactive Soft Actuators Based on Liquid-Crystalline Polymer Composite Membranes Composed of Phosphate Esters, Lithium Salts, Polyvinyl Chloride, and Poly(vinylidene fluoride-co-hexafluoropropylene)
Chengyang Liu, Masafumi Yoshio
- 3Pc075 Effect of hydrophilic comonomer structure on homeotropic alignment of nematic liquid crystals induced by liquid crystalline copolyethers.
Kouki Itou, Osamu Haba, Yuichi Momoi

- 3Pd076 Morphological control of the main-chain liquid crystalline polyesters (BB-5) by design of mesogens
Kosuke Yokota, Yoshimichi Shimomura, Genichi Konishi
- 3Pc077 Development of Colloidal Liquid Crystals with Layered Nanospaces
Takahiro Milkami, Riki Kato, Yoshihiro Hosokawa, Nobuyoshi Miyamoto, Takashi Kato
- 3Pd078 Effect of the substrate on the thermosensitive light-controlling LC devices
motoi kinoshita, yume honda, ryohei watanabe, tomonori watanabe, satoru yamamoto, mana sugiyama, daiki hosonuma
- 3Pc079 Internal catalytic effects on dynamic cross-linked resins with disulfide exchange reaction
Kanta Yamawake, Mikihiro Hayashi
- 3Pd080 Study on the synthesis of compounds giving cationic groups and their interaction with cells
Yuto Matsushita, Sunnam Kim, Tuyoshi Fukaminato, Seiji Kurihara
- 3Pc081 Design for controlling physical properties of functional crosslinked resins with a Trans-N-Alkylation bond exchange mechanism.
Takumi Kitou, Mikihiro Hayashi
- 3Pd082 Electrochemical characterization of self-oscillating polymer brush and observation of its phase transition for active control of oscillation
Keita Terui, Takafumi Enomoto, Shunsuke Yagi, Aya M. Akimoto, Ryo Yoshida
- 3Pc083 Control of elastomer extensibility using crosslinker polymers bearing multiple vinyl groups for tough elastomer preparation
Tatsuya Aoyama, Mikihiro Hayashi
- 3Pd084 Controlling bending direction of liquid crystalline elastomer with different photothermal conversion layers
Takumi Shimono, Haoxuan Guo, Hiroyuki Aota, Hirosato Monobe
- 3Pc085 Self-Healing Materials of Cellulose Derivatives
Yo Baba, Kazuma Matsumoto, Naoto Iwata, Seiichi Furumi
- 3Pd086 Crystallization behavior and fusion properties of multi-copolymers containing crystalline components
Kazuki Nakao, Shojiro Kaita, Hiroki Takeshita, Katsuhisa Tokumitsu
- 3Pc087 Marked Extensibility and damping of polycatenane networks
Hiroya Kawanishi, Takuma Aoyama, Kenji Urayama
- 3Pd088 Synthesis of Liquid-Crystalline Block Copolymers by Spatiotemporal Photopolymerization and their Nanostructure Formation
Kaito Takahashi, Daisuke Taguchi, Takuto Ishiyama, Miho Aizawa, Kyohei Hisano, Shoichi Kubo, Atsushi Shishido
- 3Pc089 Analysis of the Formation Mechanism of Periodic Structures Induced by Spatiotemporal Photopolymerization
Hirona Nakamura, Takuto Ishiyama, Miho Aizawa, Kyohei Hisano, Shoichi Kubo, Atsushi Shishido
- 3Pd090 Formation of Surface Concave Structure Arising from Anisotropic Molecular Diffusion by Patterned Photopolymerization
Sayuri Hashimoto, Miho Aizawa, Kyohei Hisano, Shoichi Kubo, Atsushi Shishido
- 3Pc091 Development of aryl silicon-crosslinked polymer material degraded by light irradiation and proton diffusion
Tomoki Nakagawa, Hiroshi Masai, Jun Terao
- 3Pd092 Preparation and functions of composite resins based on the photo patterning polymerization
Haruka Fukunishi, Mikihiro Hayashi
- 3Pc093 3D analysis for the chain structure of magnetic particles in magnetic elastomers by X-ray computed tomography

Kejun Chen, Yoshihiro Takeda, Takayuki Maruyama, Akihisa Takeuchi, Masayuki Uesugi, Motohiro Suzuki, Kentaro Uesugi, Masahiro Yasutake, Mika Kawai, Tetsu Mitsumata

- 3Pd094 Effect of vacancies on magnetorheological effect for magnetoresponse elastomers
Rio Urano, Mika Kawai, Tetsu Mitsumata
- 3Pc095 Precise synthesis and LCST analysis of end-functionalized thermosensitive polymers
Ryohei Kakuchi, Takuma Oguchi, Kiho Matsubara, Shu-ta Honda, Takeshi Matsuda, Kei Takahashi
- 3Pd096 Synthesis of novel temperature-responsive block polymers with multiple ionic poly (amino acid)s and their application
Ryota Inaba, Erika Yoshihara, Michihiro Iijima

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D. BIOPOLYMERS AND BIORELATED POLYMERS

- 3Pc097 Poly(2-ethyl-2-oxazoline) modified magnetic nanoparticles for manipulation of mechanosensitive TRPV2 channels
Masakazu Kubota, Ryota Kanke, Keito Nakajima, Masao Kamimura
- 3Pd098 Protein Aggregation Inhibition Study by Zwitterionic Polymer Coated to Gold Nanoparticles
Arouba Iftikhar, Robin Rajan, Kazuaki Matsumura
- 3Pc099 Drug-wrapped adhesive nanomaterials for wound healing ~fabrication and characterization of composite of nanosheet and nanofibers~
Yota Shiba, Genta Yagami, Tadahiro Fuyama, Hideaki Sumiyoshi, Yutaka Inagaki, Yosuke Okamura
- 3Pd100 Development of boron-containing hybrid nanogel as boron agent for BNCT
Riku Kawasaki, Hidetoshi Hirano, Keita Yamana, Yu Sanada, Kaori Bando, Anri Tabata, Takushi Takata, Yoshinori Sakurai, Hiroki Tanaka, Minoru Suzuki, Shin-ichi Sawada, Yoshihiro Sasaki, Kazunari Akiyoshi, Takeshi Nagasaki, Ikeda Atsushi
- 3Pc101 Synthesis and Anti-Cancer Activity of Polyoxazoline-modified L-Asparaginase as a Drug for Leukemia
Marika Ishimaru, Taiga Yamada, Teruyuki Komatsu
- 3Pd102 Development of Smart Nanofiber Mesh for Fallopian Tube Obstruction for Contraceptive Treatment
Emiho Oe, Mitsuhiro Ebara
- 3Pc103 Synthesis of pH-responsive polybetaine lipids conjugates and lipid nanoparticles for application of siRNA delivery
Motoaki Kobayashi, Aria Ghasemzadeh, Masahiro Toyoda, Wanphiwat Chintrakulchai, Yi-Jung Sung, Xin Shen, Yuto Honda, Takahiro Nomoto, Yutaka Miura, Nobuhiro Nishiyama
- 3Pd104 Preparation of functional poly(lactic acid) nanoparticles as an oligonucleotide carrier
Takashi Taguchi, Masahiro Yamamoto, Kenshin Yamada, Miki Muroi, Satoru Ito, Tsutomu Ishihara
- 3Pc105 An application of Nylon-4-based nanomaterials in the treatment of depression diseases
Duc Tri Bui, Babita Shashni, Yukio Nagasaki
- 3Pd106 Fabrication of pH-responsive drug delivery system and the drug release regulation by the control in the surface functional group composition
kourin wan, masahiro higuchi, syogo matubara
- 3Pc107 Preparation of DDS carriers composed of vesicles having magnetite shell and the structural analysis by 3D-TEM
Yuuka Chinda, Shogo Matsubara, Masahiro Higuchi

- 3Pd108 Design of the OLE-ZIP based amphiphilic protein that includes the single-chain antibody domain at the N-terminal side and evaluation of its capsule formation property
Kousuke Takahashi, Taiki Nishiyama, Toshihisa Mizuno
- 3Pc109 Development of multi-functional liposomes for intracellular protein delivery
Shinya Hirata, Hiroyuki Koide, Midori Watanabe, Hiromichi Egami, Yoshitaka Hamashima, Takehisa Dewa, Naoto Oku, Tomohiro Asai
- 3Pd110 Nanomedicine targeting NEU1 sialidase in cancer cells
Ken Murakami, Daiki Kambe, Yasuhiro Yokoi, Hajime Wakui, Nozomi Hirane, Ryosuke Koide, Michiru Otaki, Shin-Ichiro Nishimura
- 3Pc111 Design and function of cationic polysaccharide nanogels for mucosal vaccine carrier
Sotaro Iguchi, Shin-ichi Sawada, Yoshihiro Sasaki, Kazunari Akiyoshi
- 3Pd112 Zwitterionic polymer conjugation for drug delivery of DNA aptamer
Seojung Cho, Ryosuke Ueki, Shinsuke Sando

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D. BIOPOLYMERS AND BIORELATED POLYMERS

- 3Pc113 Research on Cytotoxicity of photoactive Surfactants
Rintarou Goushi, Yuya Ashikaga, Sunnam Kim, Tsuyoshi Fukaminato, Seiji Kurihara, Wei Xu, Takuro Niidome
- 3Pd114 Development of protein-encapsulated liposome using freeze-thawing technology
Midori Watanabe, Hiroyuki Koide, Hiroki Ochiai, Hikaru Suzuki, Shinya Hirata, Takehisa Dewa, Naoto Oku, Tomohiro Asai
- 3Pc115 Phenylboronic acid-modified glycogen as a reactive oxygen species-responsive protein nanocarrier and its application to inflammatory diseases
Hinata Isozaki, Riku Kawasaki, Keita Yamana, Shigeru Miyaki, Stubelius Alexandra, Atsushi Ikeda

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Presentation Time

<e = 15:20~16:00>

<f = 16:00~16:40>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 3Pe001 Rotaxane Formation of Multicyclic Poly(dimethylsiloxane) in Silicone Rubber
Asuka Soga, Minami Ebe, Kaiyu Fujiwara, Takuya Isono, Takuya Yamamoto, Kenji Tajima, Toshifumi Satoh
- 3Pf002 Synthesis of multicyclic polymer using the dynamic structural property of rotaxane
Ryota Watanabe, Kazuko Nakazono
- 3Pe003 Synthesis and characterization of vinyl polymer-containing rotaxane cross-linkers directed toward toughened network polymers
Syuntaro Morimoto, Yuma Sasaki, Takumi Watanabe, Daisuke Suzuki, Kazuko Nakazono
- 3Pf004 Synthesis of cyclic polymers by ring-expansion RAFT polymerization of N-isopropyl acrylamide and their thermoresponsive properties
Kenichi Bessho, Jin Motoyanagi, Masahiko Minoda
- 3Pe005 Synthesis of well-defined cyclic glycopolymers by ring-expansion RAFT polymerization
Nanako Kozaki, Jin Motoyanagi, Masahiko Minoda
- 3Pf006 Synthesis of pillar[5]arenes modified with various substituents and preparation of novel polyrotaxanes using these compounds

Yuhei Kobayashi, Shota Ando, Hideaki Yokoyama, Kohzo Ito, Tomoki Ogoshi, Akishige Seo, Hiromitsu Takeuchi

- 3Pe007 A Rational Strategy to Inhibit Elongation of Supramolecular Polymer Catenanes
Hiroki Itabashi, Shiki Yagai
- 3Pf008 Self-assembly and thermo-responsive properties of triptycene-appended triblock copolymers
Jiatong Yu, Tomoya Fukui, Takashi Kajitani, Takanori Fukushima
- 3Pe009 Precise synthesis of block-copolymer with acid-base catalyst and physical properties of tough biomass plastics
Shiori Yano, Joji Kadota, Akinori Okada, Hiroshi Hirano
- 3Pf010 Synthesis and OFET characterization of multiblock copolymers comprised of polyisobutene and naphthalene-diimide-based n-type semiconducting polymer segments
Naoki Matsuda, Megumi Matsuda, Tomoya Higashihara, Rin Kobayashi, Hiroyuki Matsui, Tomoya Higashihara
- 3Pe011 Synthesis of ABA Triblock Copolymer for Multi-Pitch DSA Materials
Rino Arai, Takehiro Seshimo, Takahiro Dazai, Kazufumi Sato, Yuta Nabae, Teruaki Hayakawa
- 3Pf012 Synthesis of poly(4-vinylpyridine)-b-poly(2,2,2-trifluoroethyl methacrylate) and control of thin film nanodomains
Haruna Sasaki, Yuta Nabae, Teruaki Hayakawa
- 3Pe013 Block and graft copolymerization of more-activated monomers using poly(vinyl ether) segment
Mikito Muratomi, Mikiya Ishihara, Atsushi Endo, Atsushi Matsumoto, Yasushi Maeda, Shinji Sugihara
- 3Pf014 Preparation of Ordered-Silica Domain Using a POSS-Containing Block Copolymer
Sota Iwao, Yoshinobu Nakamura, Syuji Fujii, Tomoyasu Hirai
- 3Pe015 New Donor-Acceptor Type Copolymers Based on Thiazole-Fused Germoles as Weak Electron-Donor Units
Weipeng Sun, Yohei Adachi, Joji Ohshita
- 3Pf016 Development of high refractive index and self-healing polymers by zinc-imidazole coordination using S-vinyl methimazole
Kaori Morikawa, Sadaki Samitsu, Hideharu Mori

E313, Institute for the Advancement of Higher Education

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 3Pe017 Synthesis of various chain-end functionalized polymers using chain-end transformation of Reversible Complexation Mediated Polymerization (RCMP) polymer-iodides with organic peroxides
Kazuya Ohtani, Kanta Shimizu, Tatsuhiro Takahashi, Masumi Takamura
- 3Pf018 Synthesis of Donor-Acceptor-Type Rigid Polymers by Exchange Reaction of Aromatic Imines with Activated Methylene Compounds
Rikarudo Minematsu, Keiya Masumura, Motoki Yasugi, Atsushi Kimoto
- 3Pe019 Synthesis of Novel Push-Pull-Type Monomers by Exchange Reaction of Aromatic Imines with Activated Methylene Compounds and its Application to π -Conjugated Polymers
Keiya Masumura, Rikarudo Minematsu, Motoki Yasugi, Atsushi Kimoto
- 3Pf020 Synthesis of Rigid Polymers with Perinaphthothioindigo Unit in the Main Chain
Yuuki Hizume, Ryuichi Sugimoto, Kimoto Atsushi
- 3Pe021 Synthesis of Polythioindigo with Fused π -Electron System
Arisa Mega, Ryuichi Sugimoto, Atsushi Kimoto

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 3Pf024 Mechanical Properties of a Single Polypeptide Chain Forming α -Helix Structure Using Atomic Force Microscopy
Yuta Onozawa, Xiaobin Liang, Hidemine Furuya, Ken Nakajima
- 3Pe025 Development of an MRI methodology for polymeric thin films by ex-situ solid-state NMR with needle-like paramagnet
Natsuki Kawabata, Naoki Asakawa
- 3Pf026 Sequence Analysis of Poly(buthylene terephthalate-co-buthylene isophthalate) Using ¹H NMR Spectroscopy
Nahoko Kajimoto, Koshi Matsubara
- 3Pe027 Conformational analyses of polynorbornenes and hydrogenated polynorbornenes
Yuki Nakama, Satoshi Natori, Takahiro Sato
- 3Pf028 Analysis of Higher-Order-Structure of Native Lignin Derivatives by Photo-excited Relaxation Processes
Yuka Morishige, Misturu Aoyagi
- 3Pe029 Dilute solution properties of un-, mono- and bi-substituted poly(phenylacetylene)
Sho Kasuga, Kazushi Enomoto, Moriya Kikuchi, Shiori Sakamoto, Sandip Das, tsuyoshi Taniguchi, Tatsuya Nishimura, Katsuhiko Maeda, Seigou Kawaguchi
- 3Pf030 Comparison of molecular conformation of poly (D-lactide) between in THF and HFIP
Natsuki Fukuta, Yoshinori Suzuki, Takahiro Watanabe, Kazushi Enomoto, Moriya Kikuchi, Seigou Kawaguchi

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B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 3Pe033 Hydration structure and dynamics of aqueous solutions of schizophyllan, a triple helical polysaccharide
Kazuto Yoshida, Rio Kita, Kaito Sasaki, Naoki Shinyashiki, Yuji Miyazaki, Motohiro Nakano
- 3Pf034 Chain morphology of poly(*N-tert*-butylacrylamide)-based amphiphilic alternating multiblock copolymers in solution
Mizuki Hirano, Yusuke Sanada, Yukiteru Katsumoto
- 3Pe035 Scaling Analysis of the Entanglement Properties for Polyelectrolyte Semidilute Solutions via Diffusing Wave Spectroscopy Technique
Atsushi Matsumoto, Chi Zhang, Frank Scheffold, Amy Q. Shen
- 3Pf036 Phase separation of poly(2-isopropyl-2-oxazoline) in ionic liquids
Mai Ueda, Yuji Kamiyama, Takeshi Ueki, Keisuke Watanabe, Yukiteru Katsumoto
- 3Pe037 Thermo-responsive behavior of mixture of oppositely charged polyelectrolytes bearing charge groups attached via ester bond
Ema Onodera, Shin-ichi Yusa
- 3Pf038 Structure formed by a double helical polysaccharide, xanthan after microbial decomposition
Yuino Takahashi, Kosuke Kuno, Masaki Shintani, Yasuhiro Matsuda
- 3Pe039 Dependence of Local Chain Conformations of Polyelectrolytes on the Added Salt Concentration
Hinata Naruse, Daichi Ida
- 3Pf040 Small angle X-ray scattering measurements for cyclic oligo(dimethylsiloxane)s in solution
Akiyuki Ryoki, Naohiro Osanai, Kana Nakajima, Daichi Ida

- 3Pe041 Preferential solvation of proteins in sugar + water mixtures
Yasuyuki Maki, Isamu Kuroiwa, Masahiko Annaka
- 3Pf042 Expansion of viscoelasticity theory for semi-flexible polymer dilute solutions and application to cellulose tris(phenyl carbamate) solutions
Nodoka Sakamoto, Yuka Goto, Tadashi Inoue
- 3Pe043 Evaluation of Liquid-Liquid Phase Separation Behavior of Temperature-Responsive Polyampholytes
Tomoka Hirose, Masaru Nakada, Hironobu Uchiyama, Shinya Seki, Kazuaki Matsumura
- 3Pf044 Solution properties and morphology of poly(ethylene oxide)-poly(2-methoxyethyl acrylate) alternating multiblock copolymer in water
Narumi Uematsu, Keisuke Watanabe, Yusuke Sanada, Yukiteru Katsumoto

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C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 3Pe049 Preparation and Evaluation of Reverse Osmosis Membranes by Interfacial Polymerization with Caged Siloxane
Takumi Nagura, Yoshiro Kaneko, Kazuki Yamamoto, Takahiro Gunji
- 3Pf050 Preparation of Functional Prepolymers for Protein Molecular Imprinting Gel and Estimation of Specific Recognition
Kaito Suzuki, Toru Hoshi, Takao Aoyagi
- 3Pe051 Preparation of Protein Molecular Imprinting Gel by Prepolymer Method and Estimation of Specific Recognition
Hiroki Fukumitsu, Toru Hoshi, Takao Aoyagi
- 3Pf052 Investigation on function induced by introduction of photo-cleavable target molecule into a polypeptide and dynamic exchange reaction of its side chains
Shun Takada, Toshiyuki Oyama
- 3Pe053 Adsorptive removal of humic acid with quaternized porous cellulose beads
Kana Uchiyama, Hiromichi Asamoto, Hiroaki Minamisawa, Kazunori Yamada
- 3Pf054 Inclusion properties of phenolic cyclic compounds in aggregation
Orie AKAGANE, Takahiro KAKUTA, Tada-aki YAMAGISHI
- 3Pe055 Investigation on chiral recognition using dynamic exchange reaction of polypeptide side chains
Shinya Matsumoto, Toshiyuki Oyama
- 3Pf056 Development of highly selective mixed-mode HPLC stationary phases using zwitterionic polymer-grafted interfaces
Yongxing Hu, Jun Kadotani, Hirotaka Ihara, Makoto Takafuji
- 3Pe057 Functionalization of porous silica beads with alkylamine chains and their application to removal of Cr(VI) ions
Ayane Taki, Hiromichi Asamoto, Hiroaki Minamisawa, Kazunori Yamada
- 3Pf058 Development of fibrous adsorbent with extractant introduced as functional group for rare earth recovery
Hiroyuki Hoshina, Jinhua Chen, Haruyo Amada, Noriaki Seko
- 3Pe059 Development of polypyrrolone - silica hybrid membranes for gas separation
Ayumi Asano, Tomoyuki Suzuki
- 3Pf060 Electrochemical properties of quinone-based ionic liquids under CO₂ conditions
Hiroki Iida, Kaoru Dokko, Masayoshi Watanabe, Kazuhide Ueno
- 3Pe061 Development of highly gas permeable composite membrane composed of porous particles and poly(diphenylacetylene)s
Shigeyoshi Imaizumi, Toshikazu Sakaguchi, Tamotsu Hashimoto

- 3Pf062 Gas permselectivity of thermally rearranged polybenzoxazole - silica hybrid membranes
Rena Kitagawa, Tomoyuki Suzuki
- 3Pe063 Synthesis and gas transport properties of novel copolybenzoxazole membranes
Takuo Nakajima, Tomoyuki Suzuki
- 3Pf064 Gas transport properties of thermally rearranged copolybenzoxazole membranes with rigid structures
Eikichi Murata, Tomoyuki Suzuki
- 3Pe065 Highly permeable PIM-1 complex membrane loaded with high concentration of particles
Takumu Morita, Masafumi Yamato, Hiroyoshi Kawakami
- 3Pf066 Structure and Physical Properties of Highly Loaded Films with Silica Nanoparticles
Masafumi Yamato, Mizuki Akatsuka, Shiori Higashi, Hiroyoshi Kawakami
- 3Pe067 Polythiophene/hydrophilic polymer layer as an oxygen evolution catalyst for water oxidation
Hiromi SHINOHARA, Hiroyuki NISHIDE
- 3Pf068 Continuous Flow System with a Polymer-Supported Dirhodium(II) Complex: Application to Enantioselective Carbonyl Ylide Cycloaddition Reactions
Ryo Sato, Kyosuke Kaneda, Koji Tsubowa
- 3Pe069 Changes in optical properties induced by functional group conversion of 2,3-diarylmaleimide derivatives substituted with nitrobenzenesulfonyl groups
Takumi Ishitobi, Kazuhiro Yamabuki, Kenjiro Onimura

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D. BIOPOLYMERS AND BIORELATED POLYMERS

- 3Pe073 Improved synthesis of flexible polymer crosslinker and its application for collagen-based composite thread
Riku Kubota, Mana Naritomi, Ichiro Fujimoto
- 3Pf074 Healing process of collagen scaffold aided by cells.
ASATO TONEGAWA
- 3Pe075 Analysis of bone formation ability of carbonate apatite capsules encapsulating biodegradable coacervate droplets capable of loading drugs.
Takurou AIKAWA, Suuhei KOMATSU, Taka-Aki ASOH, Akihiko KIKUCHI
- 3Pf076 Preparation of magnetic nanoparticles cross-linked gels as stiffness-tunable cell culture substrates
Kaho Konishi, Masao Kamimura
- 3Pe077 Development of nano-particles with sustained-release of angiogenic factor for the efficient cell transplantation
Marin Nagaoka, Yuto Nakano, Sota Yamada, Rie Utoh, Hideko Kanazawa, Kenjiro Hanaoka, Kenichi Nagase
- 3Pf078 Temperature-Modulated Cell Separation using Thermo-responsive Biocompatible polymers with peptide ligand
Ruka Shimane, Masaki Shimura, Hideko Kanazawa, Kenjiro Hanaoka, Kenichi Nagase
- 3Pe079 Investigation of high-density cell culture using non-woven fabrics
Ayumi Ishiguro, Ryuki Takenaka, Shin-ichiro Suye, Satoshi Fujita
- 3Pf080 Development of cell culture platforms using dicarboxylic acids and glutamic acid crosslinked chitosan hydrogels
Kentaro Hozumi, Chie Takahashi, Motoyoshi Nomizu

- 3Pe081 Construction of a pseudo-brain tissue semi-vivo system for the purpose of elucidating the neural network reconstruction mechanism for the treatment of Parkinson's disease
Yuna Kato, Ayumu Ogasawara, Hikari Yasui, Noriyasu Oguma, Tadashi Nakaji-Hirabayashi
- 3Pf082 Development of Highly Accurate and Low-Toxicity Cell Separation Devices Using Bioactive Polymer-Modified Columns
Moe Kato, Tadashi Nakaji-Hirabayashi, Yuki Usui, Takahiro Kishioka, Taito Nishino
- 3Pe083 Construction of cell scaffolds using photocrosslinkable polymers for the construction of artificial cartilage tissue bodies.
Ryoma Takagi, Chiaki Yoshikawa, Tadashi Nakaji-Hirabayashi
- 3Pf084 Creation of cell-material composite tissue bodies by applying three-dimensional gel culture and gravity-controlled culture
Kenshin Hirota, Kojiro Nakagawa, Reiichi Ishihara, Tadashi Nakaji-Hirabayashi
- 3Pe085 Tissue grafts engineered through collagen microgel contraction for hair regenerative medicine
Ayaka Nanmo, Tatsuto Kageyama, Junji Fukuda
- 3Pf086 3D printing of gel materials for regenerative medicine using biodegradable PEG cross-linker
Ryo Takahashi, Yoshihiro Sasaki, Shunya Hayashi, Hiroyuki Harada, Shin-ichi Sawada, Kazunari Akiyoshi
- 3Pe087 Preparation of surface-immobilized Ti substrate with fluorohydroxyapatite (FAP) or hydroxyapatite (HAp) and evaluation of osteoblast proliferation on the HAp immobilized Ti substrate
Yasutaka Akita, Mariko Watanabe, Kei Kuratani, Syusaku Sagara, Takahisa Yamamoto, Kohei Shiraishi, Kiyotaka Okada, Hiroshi Kaji
- 3Pf088 Evaluation of impacts of the introduced substitution groups on cell adhesion and proliferation properties of shellac
Yurino Sunakawa, Mai Kondo, Toshihisa Mizuno
- 3Pe089 Thermal response and molecular behavior of Side-Chain Crystalline Block Copolymer (SCCBC) coated on Tissue culture polystyrene (TCPS) dish surface
Aki Kashiwazaki, Mai Hazekawa, Shigeru Yao
- 3Pf090 Relationship between side chain structure and cryoprotection effect using temperature-variable solid-state NMR
Ryota Yamasaki, Fumiaki Hayashi, Toshio Nagashima, Robin Rajan, Kazuaki Matsumura
- 3Pe091 Application of radiation-crosslinked gelatin hydrogel for artificial blood vessel coating material
Mayu Ueno, Satoshi Ohno, Shota Ishida, Yuto Honda, Makoto Matsui, Takahiro Nomoto, Hitoshi Sugiyama, Kazukiyo Nagai, Takashi Endo, Toshio Takayama, Tomoko. G Oyama, Mitsumasa Taguchi, Nobuhiro Nishiyama, Yutaka Miura
- 3Pe093 Hydrolysis of amide bonds using histidine-containing peptide lipids
Toshihisa Kimura, Natsumi Shimizu, Kenta Morita, Tatsuo Maruyama
- 3Pf094 Stereocomplex composed of a L-peptide and a D-peptide that have the same sequence
Shiho Seguchi, Takane Tsutii, Sayuki Kanemitsu, Kunihisa Sugimoto, Kenta Motira, Tatsuo Maruyama
- 3Pe095 Induction of apoptosis by tyrosine-containing peptide lipids
Natsumi Shimizu, Sayuki Kanemitsu, Tomoko Yashiro, Kenta Morita, Takashi Aoi, Tatsuo Maruyama
- 3Pf096 Synthesis of metal subnanoparticles by Solid-Phase Peptide Synthesis
Yusuke Narita, Nanami Antoku, Shogo Saito, Masayoshi Tanaka, Takane Imaoka, Mina Okouchi, Kimihisa Yamamoto

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 3Pe097 Development of cyclic oligo(ethylene glycol) for suppression of amyloid protein fibrillation
Thirasara Sammani,Wijak Yospanya,Adam M.Wawro,Kohei Sato,Kazushi Kinbara
- 3Pf098 Creation of artificial viral capsid decorated with sialyllactose
Satomi Yano,Hiroshi Inaba,Masanori Nagao,Yoshiko Miura,Kazunori Matsuura
- 3Pe099 Charge effects of thiol compounds on oxidative protein folding promotion
Mai Kitamura,Takahiro Muraoka
- 3Pf100 Self-assembling peptides forming dovetail-packing for injured brain regeneration
Atsuya Yaguchi,Hirotsugu Hiramatsu,Itsuki Ajioka,Takahiro Muraoka
- 3Pe101 Development of Tau-derived peptide stabilizing microtubules by photocrosslinking
Soei Watari,Hiroshi Inaba,Rashedul Kabir Arif Md.,Akira Kakugo,Kazuki Sada,Kazunori Matsuura
- 3Pf102 Investigation of temperature-responsive polymer modification of proteins using the grafting from method
Erika YOSHIHARA,Ahmed Nabil,Michihiro IJIMA,Mitsuhiro EBARA
- 3Pe103 Creation of Peptide Nanofibers that Reversibly Polymerize/Depolymerize by Light
Yingbing Liang,Hiroshi Inaba,Kazunori Matsuura
- 3Pf104 Molecular transport from Cx43-embedded viral replica into Cx43-expressing GUVs and cells
Hiroto Furukawa,Yuiya Ishikawa,Hiroshi Inaba,Yoshihiro Sasaki,Kazunori Akiyoshi,Kazunori Matsuura
- 3Pe105 Chemoenzymatic synthesis and structural analysis of resilin-mimicking polypeptide with dityrosine crosslinks
Shogo Takemura,Shota Sakamoto,Hirohisa Uji,Kousuke Tsuchiya,Keiji Numata
- 3Pf106 Modification of epitopes onto MOF 2D grid interface and their application in the antibody recognition
Takanao Hirai,Motoaki Horii,Keitaro Matsuoka,Hiroshi Hinou,Kazuki Sada
- 3Pe107 Intracellular photoactivation of proteins using sterically bulky photodegradable protection groups
Ryotaro Yamamoto,Satoshi Yamaguchi,Kazuho Yamamoto,Kosuke Minamihata,Okamoto Akimitsu
- 3Pf108 Immobilization of green fluorescent protein on a glass substrate using N-terminal modification with a triazole carbaldehyde derivative
Yan Zhang,Akira Onoda
- 3Pe109 Evaluation of enzymatic activity of adenylation domain in PmxB gene of P. Polymyxa
Taichi Mano,Toshihisa Mizuno
- 3Pf110 Water Solubilization of Hydrophobic Compounds Using Polypeptides as Solubilizers and Their Biological Applications
Shogo Kawamura,Riku Kawasaki,Shodai Hino,Keita Yamana,Tomoki Kodama,Seiji Kawamoto,Atushi Ikeda
- 3Pe111 Development of a peptide that captures and neutralizes target toxins as biodegradable antidotes
Haruka Maruhashi,Hiroyuki Koide,Kaito Saito,Tomohiro Asai
- 3Pf112 Surface presentation of post-crosslinkable hydrophilic polymers onto cell surface using the PG-surfactant, DWWKC12-K3, and application of it to cell-assembling method
Tatsuki Nakakubo,Toshihisa Mizuno

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 3Pe113 Development of a novel intracellular TGF β signaling inhibitor using a cell- permeable PG-surfactant
Momoka Yamada, Toyohiro Imai, Natsumi Sumito, Yasumichi Inoue, Naoki Umezawa, Toshihisa Mizuno
- 3Pf114 Demonstration of the stepwise catalytic system for oxidative protein folding under condensed condition using the enzyme-mimetic folding promoters
Shunsuke Okada, Masaki Okumura, Takahiro Muraoka
- 3Pf116 DNA Strand Displacement Reactions Based on Metal Complexation of 5-Hydroxyuracil Nucleobases: Sequence Design of Metal-binding Sites
Keita Mori, Yusuke Takezawa, Mitsuhiko Shionoya
- 3Pe117 Development of self-assembly nucleic acid nanoparticles for nucleic acid delivery
Noriko Miyamoto, Yukio Kitade
- 3Pf118 Design of dimeric aptamers with strong anticoagulant activity in vivo
Kazuki Kubota, Masanobu Nagano, Asuka Sakata, Keitaro Yoshimoto