# Room P

Bldg.4, Area4 4301

# Tue. Sep 16

Presentation Time

<a = 10:20~11:00> <b = 11:00~11:40>

## A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

1Pa001	Synthesis of Hyperbranched Poly(ethylene oxide) Using Thiol-Ene Polyaddition <u>Genki Yama</u> ,Arisa Tachibana,Masataka Kubo,Takahiro Uno
1Pb002	Comparison of ring PEG synthesis by intra- and bi-molecular ring-closing reactions. <u>Hinako Shimazaki</u> , Yuya Doi
1Pa003	Polymerization and cross-linking reaction of MMA in montmorillonite layers and solvent washing of polymerized products <u>Kodai Sato</u> , Yuya Doi
1Pb004	Surface modification of polymethacrylate with branched-chain polydimethylsiloxane <u>Toshiki Fujii</u> ,Naoki Watanabe,Daisuke Touma
1Pa005	Surface Modification of Gold Nanoparticles with Polynorbornenes Containing Platinum Complexes Ryota Kobayashi, Hiromitsu Sogawa, Fumio Sanda
1Pb006	Surface characterization of star-shaped polycaprolactone end- functionalized with perfluoroheptyl groups <u>Riku Satou</u> ,Asahi Takamure,Hirofumi Suzuki,Minako Kishi,Kenji Sugiyama
1Pa007	Synthesis and photo-reactivity of 5-armed star-shaped poly(D,L-lactide) end-functionalized with coumarin groups <u>Manato Ono, Minami Matsuda, Kenji Sugiyama</u>
1Pb008	Synthesis and properties of hyperbranched polymer and cyclic compound from AB2-type monomer using incompletely condensed POSS Naoki Yamaguchi, Cashew Nagashima, Hiroaki Imoto, Kensuke Naka
1Pa009	Graft Polymerization onto Polysilanes Using Vinyl Monomers Himi Okuda,Yukino Saiki,Kokoa Takai,Sanosuke Tanaka,Yuuta Nakamura, <u>Yukihito Matsuura</u>
1Pb010	Development of Graft Copolymers with a Cellulose-Based Backbone and Aliphatic Polycarbonate and Polyester Branches <u>Kaito Shiobara</u> , Ayano Iida, Koji Nakano
1Pa011	Relationship between the hydroxyl group protection ratio and the number of graft chains in graft polymerization using polyrotaxane with a constant number of cyclodextrin hydroxyl groups protected as an initiator.  Megumi Akiyama, Takahiro Imai, Shota Ando, Kohzo Ito
1Pb012	Synthesis and ATRP behaviour of multivinyl polymers with various double bond distances <u>Yoshinagi Otake</u> ,Kazuteru Kawanami,Moriya Kikuchi,Seigou Kawaguchi
1Pb014	Polymerization and copolymerization of norbornene using nickel complexes with mono- or bidentate benzimidazole ligands <u>Kei Nishii</u> ,Kohei Uyama,Yusho Takashima,Keita Shimamura,Takehito  Kato,Tomoyuki Toda,Tomoyuki Toda

1Pa015	Copolymerization of norbornene with α-olefins using phosphinimide titanocene catalysts <u>Taiki Inoko</u> ,Shin-ichi Matsuoka
1Pb016	Fast ring-opening polymerization of trimethylene carbonates with a highly active La catalyst and their properites <a href="Koki Taga">Koki Taga</a> , Naoto Hirano, Tsuyoshi Ando, Hiroharu Ajiro
1Pa017	Lewis-Acid Catalyzed Ring-Opening Polymerization of ε-Caprolactam for Nylon-6 Derivatives <u>Yinan Gao</u> ,Ryoga HIRATA,Yoji TANAKA,Hironobu WATANABE,Mineto UCHIYAMA,Masami KAMIGAITO
1Pb018	Synthesis of 3-methyl-1,4-dioxan-2-one and its polymer bearing high molecular weight Kohei Yamamoto, <u>Tatsuya Masumoto</u> , Nobuyoshi Nomura
1Pa019	Synthesis of Thiophene-Based Poly(arylenevinylene)s via Pyrazolonaphthyridine Ligated Pd-Catalyzed Direct Alkenylation <u>Daichi Terauchi</u> ,Junpei Kuwabara,Takaki Kanbara
1Pb020	Synthesis of Bottlebrush Polymers containing Conjugated Polymer as the Side Chains <u>Yusei Ishii,</u> Daisuke Shimoyama,Hiroki Chino,Mikiko Kunisawa,Kotohiro Nomura
	B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES
1Pb024	Micellar Structures of Amphiphiliic Branched polysaccharides in Aqueous Solution <u>Hina Sugimura</u> ,Ken Terao,Rintaro Takahashi
1Pa025	Thermoresponsive Behavior of Glycogen-graft-poly(N-isopropylacrylamide) in Aqueous Solution Ken Terao,Rintaro Takahashi, <u>Mayuko Kurata</u>
1Pb026	Elucidation of Phase Separation Mechanism in Polyphenylene Sulfide (PPS)-NMP Solution System Keisuke Watanabe, <u>Daichi Sakamoto</u>
1Pa027	Unique morphological transition by polymerization-induced self-assembly of triblock terpolymers <u>Ibuki Shibata</u> , Ayae Sugawara-Narutaki, Rintaro Takahashi
1Pb028	Elucidation of origin of added-ion dependence of the aggregation behavior of polydiallyldimethylammonium chloride <a href="Sakino Endo">Sakino Endo</a> , Mafumi Hishida
1Pa029	Effect of freezing thaw treatment of polysaccharide dispersion on convective self-assembly <u>Haruka Tomojiri</u> ,Leijie WU,Kosuke Okeyoshi
1Pb030	Time-resolved measurements of the dissolution prosses of water-soluble polysaccharides using turbidity and light scattering <a href="Kazuya Kodera">Kazuya Kodera</a> , Rintaro Takahashi, Ken Terao
1Pa031	Effect of small molecules on the LCST behavior of hydroxypropyl cellulose Sohta Fukumoto, Mafumi Hishida
1Pb032	Determination of equilibrium constant in dynamic covalent polymers using light scattering <a href="Kyoka Into">Kyoka Into</a> , Takashi Yasuda, Xiang Li
1Pa033	Universality in Molecular Size Limit in Osmotic Equation of State for Polymer Solutions Noriaki Mizumoto, Takashi Yasuda, Xiang Li

1Pb034	Relationship between Polyelectrolyte Charge Fraction and Solvent Dielectric Constant <u>Marina Ikeda</u> ,Carlos Lopez,Watanabe Takaichi,Shinji Sugihara,Yasushi Maeda,Atsushi Matsumoto
1Pa035	Comparison of the Physical Properties of Poly(4-vinylpyridine) Before and After Quaternization Using Small-Angle X-ray and Light Scattering Momoko Hoki, Akiyuki Ryoki, Yo Nakamura
1Pb036	Aggregation Structure and Thermal Denaturation Behavior of Lysozyme in the Presence of Silica Nanoparticles <u>Chikano Okamoto</u> ,Rintaro Takahashi,Ken Terao
1Pa037	Solubilization mechanism of phthalocyanine by polyvinylpyrrolidone <u>Yuji Jinbo</u> ,Yui Tajima,Mao Takei
	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS
1Pb042	Preparation of thermosensitive hydrogel particles with catechol groups and adhesive properties <u>Yu Tamura</u> , Hidenobu Shimizu
1Pa043	Structural Characteristics of Dopamine Acrylamide Revealed by X-ray Crystal Structure Analysis and Its Adhesive behavior Ryoichi Akaishi, Masayoshi Matsuno, Yasushi Kawai
1Pb044	Particle Embedding into Human Hair: A Novel Approach for Surface Modification and Long-Lasting Hair Coloration Megumi Nishimura, Yuuka Fukui, <u>Keiji Fujimoto</u>
1Pa045	Evaluation of Strength and Disassemblability of Directly Bonded Al/PA6 Joints Using PA6 Oligomer-Modified Aluminum Surfaces <u>Naohiro Hoshikawa</u> ,Kazuhiko Umemoto
1Pb046	Analysis of Initial Wear Process with Mesoscale Polymer using Smoothed Particle Hydrodynamics Method <u>Akinori Fujita</u> ,Kaito Nomura,Yudai Uenosono,Natsuko Sugimura,Hitoshi Washizu
1Pa047	Adding effect of organic bases toward salts of 2-aminopyridyl groups in adhesive layers <u>Hinata Okada</u> , Masahiro Furutani
1Pb048	Photo-fabrication and evaluation of adhesive layers incorporating hydroxypyridyl groups <u>Miku Matsui</u> , Masahiro Furutani
1Pa049	Anti-icing effect of aluminum surface immobilized with anti-ice nucleation peptide-PMMA hybrids <u>Kentaro Kurihara</u> ,Aoi Hayakawa,Riku Ogawa,Tatsuya Mizusawa,Yoshiaki HIRANO
1Pb050	Elucidation of the Adhesion Mechanism of Biomimetic Polymers to Various Materials <u>Kazushi Yoshida</u> ,Masanobu Naito,Takayuki Miyamae
1Pa051	Development and Evaluation of Alginate Adhesives Bearing Galloyl Groups <u>Gakuto Kitajima</u> ,Hiromitsu Sogawa,Fumio Sanda
1Pb052	Polymer Design around Diamine Moieties for Controlled CO2-responsive Behavior <u>Hikaru Kiyohara</u> ,Kenichi Oyaizu,Takeo Suga

1Pa053	Wettability Switching of Crosslinked Anionic Polymer Coatings <u>Homare Kuwahara</u> ,Kenichi Oyaizu,Takeo Suga
1Pb054	Dynamic wettability evaluation under water of biomimetic microstructured surfaces <u>Miwa Hattori</u> , Tomoki Tanaka, Daisuke Ishii
1Pa055	Evaluation of Adhesion Properties of Aliphatic Polyesters with Catechol Groups at the Interface of Dissimilar Materials. Kosuke Kumagai, Takumi Yoshida, Toru Hoshi
1Pb056	Synthesis of New Yellow Polymerizable Dyes and Development of High Performance Color Particles. <u>Shuto Suzuki</u> ,Kaito Nishizima,Moriya Kikuchi,Seigou Kawaguchi
1Pa057	Surface Reinforcement and Adhesion Enhancement of PTFE Films via Atmospheric Pressure Plasma Treatment and Photo-grafting Shin-ichi Kuroda, Tamio Mori, Katsuhiko Hosoi, Yoshio Kijima, Norio Tanaka
1Pb058	Light Stimuli-Responsive Degradable and Tough Polymeric Materials with Movable Crosslinks <u>Kenji Yamaoka</u> ,Yusei Matsumura,Ryohei Ikura,Yoshinori Takashima
1Pb060	Evaluation of monomer penetration characteristics in vapor deposition polymerization for conformal coating on complex-shaped materials <u>Hironori Suzuki</u> ,ryou Tabata,Moeka Osumi,Ryosuke Matsubara,Atsushi Kubono
1Pa061	Characterization of ePTFE substrates co-immobilized with heparin and integrin ligand peptides using cross-linked LbL procedure <u>Rikuto Uemura</u> ,Tumugi Kawaguchi,Yuki Matui,Sachiro Kakinoki
1Pb062	Preparation of a polyethylene tube with poly(N-isopropylacrylamide) grafted surface for control of protein adsorption on temperature change <u>Kazuya Onohara</u> ,Toru Hoshi
1Pa063	Development of polymeric dispersants that emble nanodispersion and encapsulation of organic pigments <u>Daishi Saito</u>
1Pb064	Synthesis of polyurethanes with zwitterionic polyester structure and their interfacial properties <a href="Yuto Yakushiji">Yuto Yakushiji</a> , Akifumi Kamura

Bldg.4, Area4 4201

1Pb066	Synthesis of Novel Self-Doped PEDOT with Different Side Chain Structures <u>Rui Horikirikawa</u> ,Daiki Ozawa,Daito Goto,Yuxin Jing,Hidenori Okuzaki
1Pa067	Higer-order Structure and Carrier Transport Properties of Highly Conductive n-type PBFDO <u>Daiki Sera</u> ,Daito Goto,Yuxin Jing,Hidenori Okuzaki
1Pb068	Fabrication of Piezoionic Sensors by 3D Printing and Inkjet Printing <u>Taiki Horiuchi</u> , Tian Liang, Daito Goto, Hidenori Okuzaki
1Pa069	Synthesis and lithium-ion conductivity of polycarbonates derived from carbohydrate-based bicyclic ether derivatives and oligoethylene glycols Kenshi Yamada, <u>Daiki Tanimoto</u> , Keigo Aoi, Bharat Srimitra Mantripragada, Noriyoshi Matumi

1Pb070	Effect of alkyl chain length on the low dielectric properties of epoxidized 1,2-polybutadiene cured materials having trialkylsilyl groups <a href="Yuma Nakagawa">Yuma Nakagawa</a> , Tomoyuki Ariyoshi, Tatsuki Kamura, Naomi Sato, Yoshio Furusho
1Pa071	Creating and performance evaluation of conductive fibers using silver nanoparticles <u>Atsushi Tashiro</u> , Yuka Horiguchi, Hideyuki Nakanishi
1Pb072	Synthesis of resins based on bismaleimide using cyclic siloxane
	compounds as additives <u>Takuro Kodama</u> ,Shusei Sato,Taiga Baba,Tsukasa Ichikawa,Nobukatsu Nemoto,Yuki Hakamata,Shoji Fukuyama
1Pa073	Fabrication of Polymeric Electret Nonwoven Fabrics and Evaluation of Their Energy Harvesting Performance <u>Keita Suzuki</u> ,Rintaro Takahashi,Ayae Sugawara-Narutaki
1Pb074	Analysis of melting and recrystallization of gold nanocrystals in solvent and their application to polymeric materials <u>Yume Munegami</u> , Misawo Fuji, Hideyuki Nakanishi
1Pa075	Influence of Polyelectrolyte Networks on the Piezoionic Effect in Double Network Gel Hidetoshi Okuzaki,Tomoki Yasui,Yoshinori Katsuyama,Hidenori
	Okuzaki,Daito Goto,Takayuki Kurokawa
1Pb076	Synthesis and Electronic Properties of Sulfonate-Containing PEDOT Copolymers <u>Tsubasa Higuchi</u> ,Kenji Komaguchi,Keiichi Imato,Yousuke Ooyama,Ichiro Imae
1Pa077	Investigation of Oxidative Polymerization Behavior of Troponoids toward Development of 7π-Electron Conjugated Polyenes <u>Eiki Suzuki</u> ,Ryosuke Shinkon,Tomohiro Kigami,Akihiko Kanazawa
1Pb078	Effect of Mesh Ground Plane on the Electrical Characteristics of an Organic Interposer Targeted for Chiplet Applications Ying Ying Lim, Shunsuke Nemoto, Ken-ichi Nomura
1Pa079	Linear Polyglycerol-Based Hybrid Composite Binder for Si Anodes <u>JaeYu Kim</u> ,Seonghyeon Jung,Jeonghun Kim,Byeong-Su Kim
1Pb080	Effect of Film Formation Kinetics on Charge Transport in Crystalline Conjugated Polymers Blended with Insulating Polymer <u>Hinata Tamada</u> , Hyung Do Kim, Shunsuke Yamamoto, Hideo Ohkita
1Pa081	Ferroelectric phase control in PVDF thin films: Effects of high-boiling amphiphilic solvents <u>Yasuko Koshiba</u> ,Sakura Suga,Azumi Akiyama,Shohei Horike,Masahiro Funahashi,Kenji Ishida
	E. POLYMERS AND ENVIRONMENT
1Pa085	Complete sequence randomness of lactate-based copolymers (LAHBs) with varied lactate monomer fractions <a href="Sangho Koh">Sangho Koh</a> , Shinji Tanaka, Shinji Tanaka, Yusuke Imai, Seiichi Taguchi
1Pb086	Mechanical properties and seawater biodegradability of α-1,3-glucan-graft-poly(p-dioxanone) copolymers <u>Zhengyu Su</u> ,Jin Ho Seok,Satoshi Kimura,Tadahisa Iwata
1Pa087	Evaluation of superabsorbent polymeric materials prepared directly from Poaceae weeds. <u>Maiko Nishimura</u> ,Kenji Fukunaga,Masahiro Kanaoka,Mitsuru Aoyagi

1Pb088	Synthesis and characterization of lignophenols derived directly from
	unutilized weeds for utilization
	<u>Yuka Sakaue</u> ,Mitsuru Aoyagi

1Pa089 Well-designed native lignin derivative macromolecules directly from various plants around us

<u>Mitsuru Aoyagi, Mohamad Sarbani Nur Maisarah, Nanami Kameda</u>

Bldg.4, Area4 4202

#### E. POLYMERS AND ENVIRONMENT

1Pb090	Co-crystallization behavior of microbial polyesters with vinyl groups in their side chains and effects of post-extension thermal crosslinking <a href="Sumire Ogura">Sumire Ogura</a> , Taku Omura, Taizo Kabe, Yuki Miyahara, Takeharu Tsuge, Tadahisa Iwata
1Pa091	Analysis of initial step in biodegradation process of PHBH by QCM and electrochemistry.  Momoko Kitamura, Tomohiro Hiraishi, Yasumasa Takenaka, Hideki Abe, Noriyuki Asakura
1Pb092	Manufacturing, structure analysis and enzymatic degradation of poly(ethylene succinate) high-strength fibers <a href="Meillshida">Kei Ishida</a> , Taizo Kabe, Sumito Kumagai, Yasumasa Takenaka, Hideki Abe, Tadahisa Iwata
1Pa093	Environmentally benign five-membered cyclic carbonate resin synthesized from resveratrol and carbon dioxide Takeo Mitoma,Iku Yamashita,Tatsuki Watanabe,Kozo Matsumoto
1Pb094	Preparation and property evaluation of seaweed-derived films Kei Samuela Nishikawa, Teruyuki Seino
1Pa095	Development of high heat resistance and high thermal conductive insulating materials using biomass epoxy resin <u>Yu Matsuo</u> ,Kenji Mimura,Kantaro Nishio,Miyuki Harada
1Pb096	Synthesis of bio-based polyimides using directly bio-produced pyrazinediamines. <u>Suzune Miyamoto</u> , Jiabei Zhou, Shunsuke Masuo, Kenji Takada
1Pa097	Synthesis of Bio-based polyesters Using Pyrazine Diesters for Bio- degradable Plastics <u>Ayaka Muratsubaki</u> , Jiabei Zhou, shunsuke Masuo, Kenji Takada
1Pb098	Synthesis of low temperature curing benzoxazine using "glycol lignin", a new forest-derived material <u>Tomohiro Shimokawaji</u> , Morio Yonekawa, Hajime Kimura, Yasunori Ohashi, Yusuke Matsumoto, Laszlo Szabo, Nge Thi Thi, Tatsuhiko Yamada
1Pa099	Synthesis and properties of bio-based epoxy resins using crosslinkers with reversible reactivity <u>Yohtaro Inoue</u>
1Pb100	Synthesis and Degradation of Bio-based Polymers Derived from Acetal- containing Furan Monomer <u>Aito Nakano</u> , Hiromitsu Sogawa, Fumio Sanda
1Pa101	Formation of Hollow Biodegradable Polymer Particles by Anti-solvent Crystallization Using Fine Bubbles <u>Ukyo Saito</u> ,Nozomu Yasui,Tsuyoshi Yamaguchi,Keiji Yasuda
1Pb102	Physical properties and degradability of branched L-lactide block copolymer

	<u>Chikara Tsutsumi</u> ,Yoshihiro Kagawa,Ruka Hirota,Sayo Tan,Misaki Shiraishi	
1Pa103	Evaluation of biodegradation progress in surface of cellulose triacetate (TAC) films using energy-variable positron beam method <u>Hiroyuki Hosomi</u>	
1Pb104	Effect of the contents of cellulose and poly(vinyl alcohol)-graft-poly(lactic acid) on poly(lactic acid)-cellulose composites <u>Takuya Hamada</u> ,Yuushou Nakayama,Ryo Tanaka,Takeshi Shiono,Takashi Endo	
1Pa105	Degradation of Dual-Stimuli Sensitive Polymers Generating Bubbles Containing Titanium Oxide and Photoacid Generators by Ultrasound Irradiation and Heating Keisuke Oshima, Kohji Ohno, Haruyuki Okamura	
1Pb106	Photo-thermal Degradation of Stimuli-Sensitive Polymers with Epoxy and Tertiary Ester Moieties <a href="Keigo Matsuyama"><u>Keigo Matsuyama</u></a> , Haruyuki Okamura	
1Pa107	Development of Hydrogen-Responsive Self-Immolative Polyamides Incorporating a Ruthenium Complex <u>Hiryu Takinami</u> ,Naoki Noto,Mineto Uchiyama,Masami Kamigaito,Susumu Saito	
Bldg.4, Area4 4301 Presentation Time <c 13:20~14:00="" ==""> <d 14:00~14:40="" ==""></d></c>		
A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS		
1Pc001	Free Radical Copolymerization of Cyclic Acrylimides Bearing Isopropyl Group at The Allyl Position <u>Risa Takata</u> ,Ryo Kawatani,Tomohiro Hirano	

#### 1Pd002 Analysis of 1H NMR Spectra of alkyl chain-end Polystyrene Using a Chain Transfer Agent to Analyze the Chain-end Structure Yuta Tsukaguchi, Ryo Kawatani, Kohei Torii, Ken Yoshida, Hitoshi Mizuguchi, Tomohiro Hirano 1Pc003 Phase transition behavior of poly(N-vinyl-\(\epsilon\)-caprolactam) prepared by lowtemperature radical polymerization Sora Ogawa, Ryo Kawatani, Tomohiro Hirano 1Pd004 Radical copolymerization of ethyl 2-(hydroxymethyl)acrylate with Li salts Eito Takemura, Ryo Kawatani, Tomohiro Hirano Radical polymerization of cyclic acrylate from itaconyl dichloride and 1,4-1Pc005 butanediol Ryoga Yamano, Ryo Kawatani, Tomohiro Hirano 1Pd006 Synthesis and Polymerization of N-Vinylcinnamicamide Derived from Cinnamoyl Chloride Retsu Wakai, Ryo Kawatani, Tomohiro Hirano Controlled synthesis of liquid-crystalline polymers under ambient 1Pc007 conditions by red-light-driven atom transfer radical polymerization Kaito Takahashi, Xiaolei Hu, Krzysztof Matyjaszewski, Shoichi Kubo, Atsushi Shishido 1Pd008 Radical homopolymerization of N,N- disubstituted methacrylamides Ryu Tada, Yoshio Furusho

1Pc009	Creation of high refractive index materials by photocopolymerization of heteroaromatic ring-containing monomers <u>Rikuto Ito</u> , Yuji Tuhara, Satoru Ozeki, Hideharu Mori
1Pd010	Influence of penultimate unit effect on chain transfer reaction in radical copolymerization <u>Rikuta Otomo</u> ,Moriya Kikuchi,Seigou Kawaguchi
1Pc011	Stereoregularity Control of Amphiphilic Poly(a-dodecyloxymethylacrylic acid) <u>Kazuki Nagasaka</u> ,Kazuki Kawai,Masataka Kubo,Takahiro Uno
1Pd014	Synthesis of Poly(carbon sulfide) Particles by Electroreductive Polymerization of CS <sub>2</sub> <u>Taiki Yamada</u> ,Jun Yamaguchi,Yuya Atsuta,Atsushi Ohtaka,Osamu Shimomura,Syuji Fujii,Yoshimasa Matsumura
1Pc015	Synthesis of Side-Chain Functionalized Reductively Degradable Poly(disulfide)s by Domino Polymerization <u>Taiga Takiuchi</u> ,Yukiya Kitayama,Atsushi Harada
1Pd016	Development of new polymerization approach for synthesizing poly(thioacetal) possessing ROS-induced degradability. <u>Hikaru Nakaichi</u> , Yukiya Kitayama, Atsushi Harada
1Pc017	Controlled/Living Click Polymerization of Conjugated AB Monomers with chirality in the side chain <a href="Seiichiro Uchida">Seiichiro Uchida</a> , Tomohiro Kubo, Kotaro Satoh
1Pd018	Synthesis of High Refractive Index Polymer Films by Radical Polymerization of Bismuth-Dithiocarbamate Derivatives <u>Tomoaki Tanaka</u> ,Atsushi Ohtaka,Osamu Shimomura,Yoshimasa Matsumura
1Pc019	Synthesis of various polybenzothiazoles by oxidative cyclopolymerization of aromatic diamines and aliphatic dialdehydes using element sulfur Masaru Yoneyama, Ryu Minei, Atsuki Ise, Yuito Koganezawa, Takeshi Yamanobe
	B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES
1Pc023	Self-Assembly Behavior and Thin-Film Properties of Hydrogen-Bonding π-Extended Perylene Diimides Aoi Yamamoto,Keisuke Fujimoto,Hiroto Iwasaki,Seiichiro Izawa,Yuhei Yamada,Shiki Yagai,Taketoshi Minato, <u>Masaki Takahashi</u>
1Pd024	Surface modification of polymer particles by betainization of polymer brushes for suppression of non-specific protein adsorption <u>Masahiko Yamamoto</u> ,Ryota Niwa,Daisuke Aoki,Tatsuo Taniguchi
1Pc025	Co-deposition of Polydopamine with Polyethyleneimine on Polyethylene Naphthalate Substrates for Its Application in Electroless Metal Deposition <u>Toshiyuki Tamai</u> ,Mitsuru Watanabe,Yasuyuki Kobayashi,Junpei Kobata,Yoshio Nakahara,Setsuko Yajima
1Pd026	Synthesis of polymer particles with selective adsorption properties for bisphenol A and their application as column packing materials Masayuki Yokoyama, Haruki Hoshino, Daisuke Aoki, Tatsuo Taniguti
1Pc027	High functionality by surface modification of living polymer particles synthesized by RAFT precipitation polymerization <a href="Sota Kayama">Sota Kayama</a> , Daisuke Aoki, Tatsuo Taniguchi, Yasuyuki Yamada, Takeshi Wakiya
1Pd028	Preparation of grooved cylindrical particles

	<u>Tomoki Nakagami</u> ,Mayuka Mishima,Asuka Ishii,Akihide Arima,Makusu Tsutsui,Toyoko Suzuki,Hideto Minami,Nozomu Suzuki
1Pc029	pH and magnetic field responsive gas marbles <u>Takahiro Kadono,</u> Takanori Yasui,Tomoyasu Hirai,Yoshinobu Nakamura,Syuji Fujii
1Pd030	Stability of polycyclic aromatic hydrocarbons adsorbed on a graphite surface
	Yoshihiro Kikkawa, Seiji Tsuzuki
1Pc031	Simple formation of bicontinuous structures using Janus particles as building blocks <u>Taichi Umeno</u> ,Reina Nakamoto,Honoka Kondo,Nozomu Suzuki,Toyoko Suzuki,Hideto Minami
1Pd032	Synthesis of semi-aromatic polyimide microparticles via precipitation polymerization <u>Moe Onoda</u> ,Yuqian Chen,Teruaki Hayakawa,Yuta Nabae
1Pc033	Preparation of uniform main-chain azobenzene polymer particles <u>Shoma Yamamoto</u> , Yuito Takechi, Hiroaki Shimomoto, Eiji Ihara, Tomomichi Itoh
1Pd034	Redox Responsive Polymer Capsules Prepared by Interfacial Photocrosslinking. <u>Yuki Miyaji</u> ,Yukiya Kitayama,Atsushi Harada
1Pc035	Fabrication of helically oriented polymer thin films by polarized UV-assisted vapor deposition polymerization <u>Hiroki Minakuchi</u> , Seika Murashita, Yan Tan, Ryosuke Matsubara, Atsushi Kubono
1Pd036	Substrate temperature dependence of out-of-plane dipole orientation in polyurea thin films prepared by vapor deposition polymerization Tatsumi Kitamura, Syusaku Nandate, Atsushi Sugita, Ryousuke Matsubara, Atsushi Kubono
1Pc037	Investigation of chemically modified triazine-based covalent organic structures in organic solutions <u>Kazuhiro Oboshi</u> , Ming Cheng, Shinobu Uemura
1Pd038	Effect of ionic strengths on the compression behavior of microgel arrays at the air-water interface <u>Kotomi Hibi</u> , Takahisa Kawamoto, Haruka Minato, Daisuke Suzuki
1Pc039	Modification and Investigation of the supporting membrane surface for the preparation of nanosheets-based nanofiltration membranes <u>Yuto Katsuda</u> ,Zhaojun Fan,Akimitsu Ichimori,Takeru Nitta,Shouma Soeki,Shinobu Uemura
1Pd040	Anchoring Control and Liquid Crystal Device Characteristics with Bottle Brush LB Films <u>Toshiya Yoshigai</u> , Yuji Kinose, Osamu Sato, Yoshinobu Tsujii
	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS
1Pc043	Synthesis and the curing kinetics study of high refractive index organic-inorganic nanocomposite materials <u>Yinglu Liu</u> , Yukikazu Takeoka
1Pd044	Morphological control and 3D networking of PLA hybrids using photosensitive TiO2 nanoparticles <a href="Keiya Kawamura"><u>Keiya Kawamura</u></a> , Shuta Hara, Shigeru Shimizu, Hiroki Ikake
1Pc045	Particle size dependence of activation energy required for melting and recrystallization of silver nanocrystals in water

	<u>Takeru Kitao</u> , Yume Munegami, Hideyuki Nakanishi
1Pd046	Preparation of Polyimide Composite Particles by Precipitation Polymerization in the presence of Mica <u>Akiko Nakahashi</u> ,Hideki Tachi
1Pc047	Creation of Perovskite-Containing Water-Based Ink <u>Yoshiki Kageyama</u> ,Moriya Kikuchi,Kazushi Enomoto,Shigeki Takahashi,Seigou Kawaguchi
1Pd048	Design of silica particle composite elastomer with unique reinforcement mechanism <u>Moeka Higuchi</u> ,Moe Sakamoto,Karin Ito,Yukikazu Takeoka
1Pc049	Preparation of BN@Al2O3 composite particles and their high dispersion in polyimide matrix <u>Ritsuki Wada</u> ,Keiya Kawamura,Shuta Hara,Shigeru Shimizu,Hiroki Ikake
1Pd050	Fabrication and characterization of organic-inorganic composite hydrogels for application to multifunctional smart gels <a href="Kazuto Tanigawa">Kazuki Murai</a>
1Pc051	Structure and mechanical properties of polymer nanocomposites with chain-like silica nanoparticles <u>Tatsuki Oishi</u> , Ayae Sugawara-Narutaki, Rintaro Takahashi
1Pd052	Synthesis and hybridization of polymer-inorganic composite particles Yayoi Yoshioka
Bldg.4, Are	ea4 Foyer

	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS
1Pc053	Synthesis and properties of a composite composed of self-doped polythiophene and magnetic nanoparticle <a href="Sosuke Abe">Sosuke Abe</a> , Koichiro Tanaka, Takahiro Uno, Masataka Kubo
1Pd054	Preparation of High Water-resistance Flaky Aluminum Pigments Coated with Hydrophobic and Application to Water-based Ink <u>Takeru Miyauchi</u> , Moriya Kikuchi, Seigou Kawaguchi
1Pc055	Preparation and Properties of Self-Doped Polycyclopentadithiophene Composite with Inorganic Oxides <u>Toshiki Itakura</u> ,Kiho Asari,Takahiro Uno,Masataka Kubo
1Pd056	Surface modification of polymer using various octaalkoxy-substituted POSSs as surface segregants <u>Nanami Okamura</u> , Jinshiro Takeuchi, Hiroaki Imoto, Kensuke Naka
1Pc057	Fabrication of organic-inorganic hybrid capsule for immobilization of formate dehydrogenase <u>Miyuki Ishii</u> ,Fumio Kurayama,Sora Imanishi,Tatsushi  Matsuyama,Junichi Ida
1Pd058	Polymerization behavior of methacrylate monomers from the surface of ZnO nanorods by photoinduced atom transfer radical polymerization Kaho Nakano, Hironobu Murata, Krzysztof Matyjaszewski, Shoichi Kubo, Atsushi Shishido
1Pc059	Synthesis of Gold Nanoparticles with Uniform Particle Size Using a Nearly Homogenous Polymer Hydrogel Network Composed of Temperature-Responsive Star-Shaped Polymers as a Template <a href="Yian Wang">Yian Wang</a> , Taiki Hoshino, Yukikazu Takeoka
1Pd060	Hybridization of PIM-1 and PIM-2 with inorganic nanoparticles and their film properties Kenichi Chiba, Tadashi Tsukamoto, Yuji Shibasaki

1Pc061	Alignment behavior of liquid-crystalline polymer films containing ZnO nanorods by scanning wave photopolymerization <u>Hikaru Nakoshi</u> , Kaito Takahashi, Kaho Nakano, Shoichi Kubo, Atsushi Shishido
1Pd062	Preparation and properties of transparent thiourethane acrylate/alumina composite materials <u>joya ikoma</u> ,hideki sugimoto
1Pc063	Preparation of Acrylic/Alumina Composites Containing Coumarin Moieties <u>Daisuke Itakura</u> ,Hideki Sugimoto
1Pd064	Preparation of polyvinyl butyral/alumina nanofiber composites Koki Ino, Hideki Sugimoto
1Pc065	Impregnation Condition Dependence of Repairing Behavior of Fatigued Epoxy/Silica Nanocomposites with Impregnation into Monomer Yukiya Uda, Takuya Matsumoto, Takashi Nishino
511 4 4	. 1004

	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS
1Pc067	Study on the properties of aliphatic polyamide containing ether bonds in the backbone Chen Gu, Shintaro Nakagawa, Naoko Yoshie
1Pd068	Fabrication of poly(vinyl alcohol)-based hydrogels with various interactions <u>Asahi Inoue</u> ,Yohei Kotsuchibashi
1Pc069	Preparation of vitrimer with crossliner bearing carbonate backbone and polyalcholol <u>Issa Tanaka</u> ,Kanako Okuda,Hiroharu Ajiro
1Pd070	Strategy for higher elasticity of gels by using side-chain terminal functional groups <u>Yuka Wakayama</u> , Takuma Kureha
1Pc071	Evaluation of Anisotropic Physical Properties of Thermal-Compressed Wood under Different Heat Pressing Conditions <u>Koki Hayashi</u> ,Daisuke Ishii
1Pd072	Polybenzoxazoles with Low Coefficient of Thermal Expansion (23). Modification Effects of ester- containing Monomers Sara Tanaka, Juan Nakazono, Junichi Ishii, Masatoshi Hasegawa
1Pc073	Organo-Soluble Low CTE Polyimides (25). <u>Kouichi Ohta,</u> Masaki Hayashi,Humiya Hayashi,Junichi Ishii,Masatoshi Hasegawa
1Pd074	Transparent Thermoplastic Polyimides (14). Thermal and UV-stability <u>Yuno Tomita,</u> Hiroto Kawamorita,Naomi Shindo,Junichi Ishii,Masatoshi Hasegawa
1Pc075	Development of Low-CTE Polyimides for Flexible Printed Circuit Boards (7). Study on Low Dielectric Dissipation Factor Enhancement. Junichi Ishii,Naoto Goto,Naoya Nakano,Masatoshi Hasegawa
1Pd076	Poly(ester imide)s with Low CTE and Low Water Uptake (49). Effect of novel 8-ring-type ester-containing diamine structure on high-frequency dielectric properties <u>Kotoha Sato</u> ,Junichi Ishii,Masatoshi Hasegawa
1Pc077	UV-light Lift Off of Polyimide Films (7)

	<u>Yui Miura,</u> Natsumi Takagi,Yuta Shimode,Junichi Ishii,Masatoshi Hasegawa,Kazuya Ebara
1Pd078	Novel bio-solvents alternative to NMP for polyimide film manufacturing. <u>Mana Hashimoto</u> ,Junichi Ishii,Takao Miwa,Masatoshi Hasegawa
1Pc079	Poly(ester imide)s with Low CTE and Low Water Uptake (50). Effect of novel 8-ring-type ester-containing tetracarboxylic dianhydride structure on high-frequency dielectric properties <a href="Sebun Matsunaga">Sebun Matsunaga</a> , Junichi Ishii, Masatoshi Hasegawa
1Pd080	Colorless Polyimides Derived from Novel Spiro-type Monomers (13). Strategies to Overcome the Trade-off between Low CTE and Low Birefringence Masatoshi Hasegawa, Ko Nagahaba, Hikaru Sugihara, Junichi Ishii
1Pc081	Effect of the spacer structure of bifunctional (meth)acrylate on the properties of photocured film Risako Kobayashi,Tomoya Mizumori,Masayoshi Matsuno,Kouki Tsubaki
1Pd082	Thermoplastic and self-healing behavior of elastomers containing haloger atoms <u>Kanji Niimi</u> ,Yuya Oyama,Atsushi Hotta
1Pc083	High mechanical properties and thermal resistance of high-concentration agarose hydrogels <a href="Haruna Oshita">Haruna Oshita</a> , Kenji Urayama, Jun-ichi Horinaka

## E. POLYMERS AND ENVIRONMENT

120086	Akihiko Masui, Yuzuko Toyoshima, Satoshi Ikawa, Akiko Nakahashi, Hideo Okamura, Atsuyoshi Nakayama
1Pc087	Relationship between the repeating units of P3HA biosynthesized by R. eutropha with pentanoic acid and 1,6-hexanediol as mixed carbon sources and preferentially metabolized carbon sources <u>Mayu Hirota</u> , Takahiko Nakaoki
1Pd088	Relation between the fraction of varelate units and B-oxidation using odd- numbered fatty acids as carbon sources by R. eutropha <u>Meguno Tsunekawa</u> ,Takahiko Nakaoki
1Pc089	Physical Properties and decreasing and increasing rates of Molecular Weight of each Block for P(3HB-b-3HBV) by R. eutropha Ren Yashita, Takahiko Nakaoki

Bldg.4, Area4 4202

## E. POLYMERS AND ENVIRONMENT

1Pd090	Discovery of the marine biodegradability of fishing lines made mainly of nylon 6 and nylon 66  Shota Ando, Daisuke Kasai, Eri Ueno, Megumi Akiyama, Namiko Gibu, Yingjun An, Takako Kikuchi, Maina Yonemura, Dai-ichiro Kato, Hirofumi Hinata, Atsushi Takahara, Kohzo Ito
1Pc091	Comparative Study of Poly(ethylene succinate) Biodegradation in Freshwater and Seawater using Raman mapping Miyu Ogawa, Harumi Sato
1Pd092	Development of aspartic acid based superabsorbent polymers with spontaneous degradation.

	<u>Daichi Yasutake</u> ,Naoki Yamada,Mitsuru Naito,Kanjirou Miyata,Takeshi Mori
1Pc093	Synthesis of aromatic polyethers aimed at biodegradability <u>Daiki Morimoto</u> , Akihide Sugawara, Hiroshi Uyama
1Pd094	Optical Fiber Fabrication from Water-Soluble Polysaccharides via a Novel Gel Spinning Approach <u>Yuya Fukata</u> ,Aayush Jaiswal,Ari Hokkanen,Hannes Orelma,Tadahisa Iwata
1Pc095	Enhancement method of the paper strengths by cellulose nanofiber composite photocurable resin [2] Surface properties <u>Takeshi Onji</u> ,Kazuaki Katagiri,Naoya Harada,Sonomi Kawakita
1Pd096	Development of Porous Materials Using Polysaccharide Polyion Complexes and Evaluation of Their Oil/Water Separation Ability <u>Misaki Hayashi</u> ,Takuya Sagawa,Mineo Hashizume
1Pc097	Development of high-strength film by cross-linking reaction of carboxyl-modified starch and oxazoline group-containing polymer <a href="Yuta Okuda">Yuta Okuda</a> , Yu-I Hsu, Hiroshi Uyama
1Pd098	Synthesis of Surface-Functionalized Zinc Oxide Nanoparticles and Their Application in PLA Composite Haruka Nakagawa, <u>Kohei Iritani</u>
1Pc099	Bestowing novel functionalities to cellulose/chitin nanowhiskers by surface modifications and applications of them to functional materials <u>Jun Araki</u> ,Akari Iizuka,Toshiko Amemiya,Hitomi Hamada,Takaomi Nomura,Yoshitake Akiyama
1Pd100	Exploring interactions between cellulose fatty acids <u>Takeru Tanaka</u> , Yoshito Ando
1Pc101	Development of microbeads from Sterile Silk Material - Spherical Particle Formation from Aqueous Fibroin Solutions and their Morphological Regulation  Shoji Nagaoka, Kazumi Masuda, Kyohei Yoshida, Maki Horikawa, Tomohiro Shirosaki, Hirotaka Fuchigami, Makoto Sasaki
1Pd102	Synthesis of the selectively degradable peptide cross-linker and its application to cross-linked natural rubber <u>Sekiguchi Satsuki</u> ,Kousuke Tsuchiya,Takamasa Sakai
1Pc103	Synthesis and Properties of Biobased Polyesters from Cinnamoyl Dimers Having Fused Ring Skeleton <u>Takumi Noda</u> , Yasuhiro Kohsaka
1Pd104	Synthesis and modification of bio-based water-soluble polyimides <u>Haru Kawano</u> , Yoichiro Sawada, Noriyoshi Matsumi, Kenji Takada
1Pc105	Improving mechanical properties and changing the crystal structure through solvent vapor annealing with paramylon triacetate fibers <a href="Shungo Noguchi">Shungo Noguchi</a> , Taizo Kabe, Tadahisa Iwata
1Pd106	Synthesis and properties of novel sequence-controlled copolyesters containing 5-hydroxypentanoic acid and 6-hydroxyhexanoic acid Yudai Shuto, Yuushou Nakayama, Ryo Tanaka, Takeshi Shiono, Shodai Hino, Norioki Kawasaki, Naoko Yamano, Atsuyoshi Nakayama
1Pc107	Fabrication and Characterization of Synthetic Rubber Latex/Sodium Alginate Composites Kazuki Nishidoi,Hiromitsu Sogawa,Fumio Sanda

# A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

1Pe001	Radical Copolymerization of Formaldehyde: Synthesis and Properties of Novel Copolymers with Oxygen Atoms in the Main Chains Ryogo MURAKAMI, Hironobu WATANABE, Mineto UCHIYAMA, Masami KAMIGAITO
1Pf002	Precision Polymer Synthesis by Cascade Process from Controlled Radical Polymerization to Reduction of Pendant Groups Using (PNNP)Mt Complexes for Various Acrylic Monomers  Ryoga HIRATA, Chihaya MURATA, Hironobu WATANABE, Mineto UCHIYAMA, Naoki NOTO, Susumu SAITO, Masami KAMIGAITO
1Pe003	Synthesis and Functionalization of Itaconic Acid-Derived Poly( <i>N</i> -vinylpyrrolidone) Derivatives with Various Functional Groups in the Side Chains <u>Shione KURITA</u> , Hironobu WATANABE, Mineto UCHIYAMA, Masami KAMIGAITO
1Pf004	Precision Synthesis of Monodisperse Vinyl Oligomers by Living Polymerization and Chromatographic Separation Shokei OKAMOTO, Shione KURITA, Hironobu WATANABE, Mineto UCHIYAMA, Masami KAMIGAITO
1Pe005	Synthesis of block copolymer with isoprene and N-vinylpentaneamide mimicing the structure of natural rubber <a href="Sho Sugimoto">Sho Sugimoto</a> , Tsuyoshi Ando, Hiroharu Ajiro
1Pf006	Initiator-free photopolymerization of $N$ -substituted acrylamides using LED $\underline{\text{Yu Zhang}}$ ,Sena Hashimoto,Atsushi Kameyama
1Pe007	Synthesis of cyclic polymethacrylates via a novel photoinduced ring- expansion polymerization using various aromatic heterocycles as cyclic initiators
	Ryo Inomata, Sena Hashimoto, Atsushi Kameyama
1Pf008	Sulfer-Free Photo-Iniferter RAFT Polymerization Using Non Benzenoid Aromatic Tropolone <u>Yuri MATSUBA</u> ,Eisuke HIRANO,Ayari NISHIO,Akitsugu SHIBATA,Atsushi MATSUMOTO,Yasushi MAEDA,Shinji SUGIHARA
1Pe009	Dispersion polymerization using polyamide acid a steric stabilizer in ethylene glycol
1Pf010	Kosuke Yamamoto, Chika Kudou, Takeshi Namikoshi, Shinji Watanabe Effect of Amine Catalysts on Polymerization Control in Reversible Complex Mediated Polymerization in Miniemulsion systems.  Yuma Kobayashi, Yukiya Kitayama, Atsushi Harada
1Pe013	Double-Ring Nanostructures Formed by Scissor-Shaped Naphthalene Dyads <u>Kintaro Miyamoto</u> ,Sota Mihara,Hiroki Itabashi,Hiroki Hanayama,Shiki Yagai
1Pf014	Zinc-Porphyrin Dyads Self-Assemble into Curved supramolecular polymer <u>Ryuichi Kawai</u> ,Soichiro Ogi,Hiroki Hanayama,Shiki Yagai
1Pe015	Self-assembly and emission properties of scissor-shaped dyad with a heterocyclic π-conjugated systems <u>Hina Ochiai</u> ,Hiroki Hanayama,Shiki Yagai
1Pf016	Supramolecular co-polymerization of water-soluble porphyrins in a microflow catalysis <u>Riku Ito</u> , Haruna Takemori, Chisako Kanzaki, Shouta Nomura, Takato Maeda, Munenori Numata

1Pe017	Development of self-healing hybrids based on boronic acid esters/silsesquioxane/titanium oxide <a href="Masanari Oba"><u>Masanari Oba</u></a> , Kohei Yamanaka, Hideharu Mori
1Pf018	Two-dimensional structural ordering of stimuli-responsive molecular units using triptycene-based supramolecular scaffold <u>Jiatong Yu</u> ,Tomoya Fukui,Takanori Fukushima
1Pe019	Controlling the structure and polarity of hydrogen-bonded urea molecular assemblies through side chain engineering <u>Azumi Akiyama,</u> Yoshiki Ogura,Yasuko Koshiba,Shohei Horike,Masahiro Funahashi,Keiki Kishikawa
	B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES
1Pe023	Stretch-induced structural transition mechanism from alpha-helices to highly oriented beta-sheet of silk having polyalanine sequences <u>Taiyo Yoshioka</u> ,Tsunenori Kameda
1Pf024	Swelling Behavior and Molecular Dynamics of Graft Copolymers with Thermoresponsive Poly(N-isopropylacrylamide) <a href="https://disable.com/Hikaru Nagata">Hikaru Nagata</a> , Hisashi Honda
1Pe025	Synthesis of T-shaped copolymers consisting of amorphous main chain/crystalline side chains and crystallization behavior of the side chains  RYOSUKE NISHI,SHUTA HARA,TAKAYUKI IKEHATRA
1Pf026	Investigation of solvent effects on crystallization and melting of PEG by DSC <u>Daisuke Kobayashi</u> , Hiroki Yabada, Go Matsuba, Yuya Doi
1Pe027	Relationship between Hierarchical Structure and Additive Bleeding Behavior of Polyethylene Film with Different Stretching Ratios  Masashi Ikehira, Ryu Miyajima, Nana Tsuji, Hiroyasu Masunaga, Sono Sasaki
1Pf028	Structural characterization of high-concentration hydrogels of kappa- carrageenan by small-angle X-ray scattering <u>Koshiro Hara</u> ,Urayama Kenji,Horinaka Jun-ichi
1Pe029	Anomalous expansion during annealing of poly(lactic acid) containing poly(tetrafluoroethylene) fibers <u>Dai Hoang Giang Vo</u> ,Masayuki Yamaguchi
1Pf030	Relationship between Molecular Morphology and bound Solvent of Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) Gel <u>Takuya Kitamura</u> ,Takahiko Nakaoki
1Pe031	Molecular Structure and Preparation of porous particle from Poly(3-hydroxybutyrate)/o-dichlorobenzene Gel Ryouta Arai, Takahiko Nakaoki
1Pf032	Preparation of porous particle of Poly (L-lactide) Oligomer and the Molecular Morphology. <u>Kota Tsuchiya</u> , Takahiko Nakaoki
1Pe033	Incorporation of Ethanol in nanoporous Syndiotactic Polystyrene from Ethanol/acetone mixed Solution Shogo Watanabe, Takahiko Nakaoki
1Pf034	Incorporation of propanol from 1 and 2-propanol aqueous solutions using nanoporous syndiotactic polystyrene. <u>Taiki Fujiwara</u> , Takahiko Nakaoki
1Pe035	Improvement of Mechanical Properties for Poly(vinyl alcohol) and its Blend Films

	Aino Shirai, Takahiko Nakaoki
1Pf036	Enhanced Cold Crystallization of Cellulose Acetate Membranes by Supercritical CO2 <u>Nobuhiro Nambu</u> ,Shinji Kanehashi
1Pe037	Structural Analysis of Fluorinated Polymer Electrolytes by Neutron and X-ray Small-Angle Scattering under Controlled Humidity Shigeki Uzuki,Shinichi Takata
1Pf038	Molecular dynamics simulation of chirality selection in crystallization of isotactic polypropylene (iPP) <u>Takashi Yamamoto</u>
1Pe039	Structural Evaluation of Water in (Meth)acrylate Polymers and Elucidation of the Recrystallization Mechanism <u>Ao Hishida</u> ,Ryuto Ohkubo,Yuri Kishimoto,Makoto Gemmei-Ide,Shigehiro Kagaya
1Pf040	A study of intermolecular hydrogen bonding in cellulose acetate using low-frequency Raman spectroscopy <u>Ritsuki Matsuoka</u> ,Harumi Sato,Mitsuru Aoyagi
1Pe041	Analysis of cyclic bending fatigue behavior of PET films using X-ray scattering <u>Yusho Kishimoto</u> ,Jiayi Yu,Kyohei Hisano,Atsushi Shishido
1Pf042	Controlling the orientation and structure of a new thermally conductive polymer <u>Jonathon Tanks</u> ,Kenji Tamura,Kimiyoshi Naito
1Pe043	The Effect of Crystallization on the Internal Stress of Poly(ether ether ketone) <u>Takeshi Horie</u> , Takuya Matsumoto, Takashi Nishino
1Pf044	Effect of Low-Molecular-Weight PEG on the Crystallization Kinetics of Poly(lactic acid) <u>Masaki Tanizaki</u> ,Akihiko Toda,Ken Taguchi
1Pe045	Fast Field Cycling NMR Relaxometry of PTFE and PCTFE Makoto Yamaguchi, Seiichi Kuroda, Kiyoshi Inokuma, Natsuki Fukuta
	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS
1Pf048	Synthesis and physical properties evaluation of discontinuous conjugate polymers with tunable energy levels for applications in solar cells <u>Hiroto Miyatake</u> , Haoxuan Guo, Hiroyuki Aota
1Pe049	Exploration of Highly Conductive and Durable Anion Exchange Membranes by Combining Literature Data and Quantum Chemical Calculations Nana Terasoba, Yuri Nara, Yin Kan Phua, Koichiro Kato, Tsuyohiko Fujigaya, Hiroyoshi Kawakami, Manabu Tanaka
1Pf050	Ternary Organic Thin-Film Solar Cells with Two Acceptors <u>Himawari Kojima</u> ,Athushi Aoki
1Pe051	Fabrication and Ion Diffusivity Evaluation of Network Polymer Membranes Bearing Cationic Crosslinking Points <u>Ryodai Fujihashi,</u> Yasutaka Kuwahara,Hiroyoshi Kawakami,Manabu Tanaka
1Pf052	Effect of Donor Unit Side-Chain Chirality on A-D-A'-D-A Type Non-Fullerene Acceptors for Polymer Solar Cell Applications <a href="Mailto:Kenta Yamada">Kenta Yamada</a> , Wataru Suzuki, Jun-ichi Nishida, Tomokazu Umeyama

1Pe053	Synthesis of Non-Fullerene Acceptor Based on Thioalkylated Thienoazacoronene Unit and Its Application in Polymer Solar Cells Ryogo Hara, Wataru Suzuki, Tomokazu Umeyama
1Pf054	Fabrication and Proton Conductivity Evaluation of Nanofiber-Containing Hydrocarbon-Based Polymer Electrolyte Membranes <u>Hiroki Mizuta</u> ,Akari Tatsukawa,Yasuyo Ogino,Masahumi Yamato,Kazuya Matsumoto,Mitsutoshi Jikei,Hiroyoshi Kawakami
1Pe055	Effect of polymer matrix structure on Li-ion conductivity of nanofiber- containing electrolyte membranes <u>Rintaro Omichi</u> , Yasuyo Ogino, Masahumi Yamato, Hiroyoshi Kawakami
1Pf056	Fabrication of polymer nanofiber-incorporated electrolyte ultrathin membranes and evaluation of their Li-ion battery characteristics Rintaro Omichi, Yosuke Saito, Yasuyo Ogino, Masahumi Yamato, Hiroyoshi Kawakami
1Pe057	Synthesis and properties of composite materials using poly siloxane derivatives with imidazolium salts <u>Taishi Yoshida</u> , Takeru Ito, Tsukasa Ichikawa, Nobukatsu Nemoto
1Pf058	Evaluation of structural changes and catalytic performance of metal phthalocyanine complexes induced by baking <a href="Yuta Nakazato">Yuta Nakazato</a> , Ayato Sasaki, Tsukasa Ichikawa, Izuru Kobayashi, Nobukatsu Nemoto, Kotaro Yoshioka, Shota Tanaka, Yuki Sakamoto, Masaji Akimoto
1Pe059	Quasi-elastic neutron scattering study on water dynamics in Nafion using Si311 analyzer <u>Takeshi Yamada</u>
1Pf060	Synthesis of PEO Networks Using Thermal Azide-Alkyne Cycloaddition Reaction and Their Application to Solid Electrolytes <u>Ryodai Kagami</u> , Hiroto Sanji, Takahiro Uno, Masataka Kubo
1Pe061	Preparation and Ion Conductivity of Comb-Shaped Polyether Electrolyte Composed of PDMS and PEG Side Chains <u>Ai Sugimoto</u> ,Ryuta Kosono,Tomoya Enoki,Takahiro Uno,Masataka Kubo
1Pf062	Synthesis of Four-Branched PEO Network Using Click Reaction and Its Application to Solid Electrolyte Soma Ishimoto, Hiroto Sanji, Takahiro Uno, Masataka Kubo
1Pe063	Recovery of All-inorganic Perovskite Layers and Effect of Surface Modification by Ink Additives. <u>Rio Shimizu</u> ,Kenichi Oyaizu,Hiroyuki Nishide,Takeo Suga
1Pf064	Preparation of Organic Thin Films with Anthraquinone Derivatives and Application to Organic Secondary Batteries. <u>Satoshi Adachi</u> , Akinari Chiba, Kenichi Oyaizu
1Pe065	MXene-CNH Composites Engineered for High-Performance Metal Ion Battery Anodes with Superior Fast-Charging Properties <u>Mukul Swain</u> , Punyasloka Saibrata, Ghoroi Chinmay, Noriyoshi Matsumi

Bldg.4, Area4 4201

## C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

1Pf066 [Choline][Pectate] as a High-Performing Bio-based Anodic Binder for Lithium-Ion Batteries

	Ze Li, Mantripragada Bharat Srimitra, Noriyoshi Matsumi
1Pe067	Rheological evaluations of electrode slurries containing poly(ethylene oxide) electrolytes as binder <a href="Kento Kimura"><u>Kento Kimura</u></a> , Mana Suzuki, Masayoshi Takano, Ryuta X Suzuki, Yuichiro Nagatsu, Yoichi Tominaga
1Pf068	Synthesis of Fluorine-free Anion Conductive Polymer Electrolyte Membranes <u>Ryuto Horiuchi</u> ,Kenji Miyatake
1Pe069	Analysis of Nafion Aggregate Formation in Fuel Cell Catalyst Ink via Coarse-Grained Simulations <u>Rei Shibata</u> ,Tsuyohiko Fujigaya,Koichiro Kato
1Pf070	Fast-Charging Lithium-Ion Batteries Enabled by a Poly(lithium borate ester) Binder with Functionalized Solid Electrolyte Interphase Pavithra Kasthurirangan,Bharat Srimitra Mantripragada,Noriyoshi Matsumi
1Pe071	Synthesis of Soluble π-Conjugated Poly(carbon monosulfide)s by Electropolymerization of Carbon Disulfide and Investigation of Its Reaction Mechanism Kousei TAKAZAWA, Hiroki NUMAZAWA, Yuta YASAKA, Akihiko KANAZAWA
1Pf072	Stabilization of Li ion secondary battery cathode using diborylbenzene type additive <u>Uday Sai Reddi</u> ,Bharat Srimitra Mantripragada,Noriyoshi Matsumi
1Pe073	Preparation and Evaluation of Solid Electrolytes Using End-capped Poly(Ethylene Carbonate) <u>Xiaodong Huo</u> ,Kento Kimura,Yoichi Tominaga
1Pf074	Development and Electrochemical Evaluation of TEMPO-oxidized Cellulose Nanofiber Hydrogel Electrolytes for Rechargeable Zinc-ion Batteries Thanigan Nakkhong, Nantapat Soontornnon, Kento Kimura, Jusef Hassoun, Yoichi Tominaga
1Pf076	Evaluation of hydrogel binders containing Nafion for use in electrochemical capacitors <u>Mai Hirukawa</u> , Yutaka Ohsedo
1Pe077	Evaluation of electrochemical properties of gel-like conductive polymer thin films <u>Yume Fushimi</u> , Yutaka Ohsedo
1Pf078	Automation Technology for Polymer Material Development Experiments Using Robotic Arms <u>Kohei Hashimoto</u> , Yuki Asano, Keiichiro Nomura, Iasmu Shigemoto, Junichiro Shiomi
1Pe079	Creation of conductive polymer thin film hydrogel electrode materials Natsuki Tsukumo, Yutaka Ohsedo
	E. POLYMERS AND ENVIRONMENT
1Pf086	Accumulation of formaldehyde using basic protein protamine Momoka Uchida, <u>Masanori Yamada</u>
1Pe087	Preparation and Characterization of Rhamnan Sulfate / Crosslinked-Poly(Acrylic Acid) Composite Hydrogels by Pre-ionic Crosslinking Method Motoki Kitagawa, Yosuke Niko, Shigeru Watanabe, Shingo Hadano
1Pf088	Development of an Iridium-Catalyzed Method for the Hydrogenative Depolymerization and Upcycling of Polyesters

<u>Chihaya Murata,</u>Arash Ghaderi,Naoki Noto,Mineto Uchiyama,Masami Kamigaito,Susumu Saito

1Pe089 Synthesis of Chitouronic Acid by TEMPO Oxidation of Chitin and Its Application to Polysaccharide Composite Films Sho Yatabe, Takuya Sagawa, Mineo Hashizume

Bldg.4, Area4 4202

#### E. POLYMERS AND ENVIRONMENT

1Pf090	Surface modification of CNF by physical adsorption with water-soluble tamarind esters <u>Yasutaka Uchijima</u> ,Ryoya Kihara,Shinji Utsunomiya,Naoki Wada,Kenji Takahashi
1Pe091	Recycling of fibers from FRP waste through metal-oxide catalyzed low temperature combustion  MANIKANDAN ILANGOVAN, TAKESHI KONDO
1Pf092	Hybridization of inorganic crystals and wood treated with deep eutectic solvents consisting of citric acid for the development of tough biomass structural materials <u>Yui Okuda</u> ,Go Matsuba,Hiroshi Kamitakahara,Eiichi Kido,Tadashi Mizutani
1Pe095	The Change in Molecular Aggregation States and Thermo-Oxidative Degradation Behaviors of Polyamide 6 Press Films Based on Thermal Treatment Sota Wachi, Shotaro Nishitsuji, Yutaka Kobayashi, Yasuhiko Otsuki, Hiroshi Ito, Hisao Matsuno
1Pf096	Analysis of environmental factors influencing the biodegradation rate of biodegradable plastics in marine <u>Hironori TAGUCHI</u> ,Nao OSAKA,Takako KIKUCHI,Hiroshi  MORITA,Yoshifumi AMAMOTO,Keiji TANAKA
1Pe097	Surface Aggregation Structures and Thermo-oxidative Degradation Behaviors of Polypropylene Hot-pressing Films <u>Yuto Tsuruya</u> ,Shotaro Nishitsuji,Yutaka Kobayashi,Yasuhiki Otsurki,Hiroshi Ito,Hisao Matsuno
1Pf098	Physical properties and biodegradation of phosphorylated ethylene vinyl alcohol copolymer <u>Takumi OKIHARA</u> , Muneharu KUROSAKI, Yukihiro KISHIMOTO
1Pe099	Circulatory Utilization of Woody Biomass by Superworms Souwalauk Na Khampol, Yoshito Ando
1Pf100	Synthesis of polyurethanes using sulfur-containing diol monomers and evaluation of their mechanical properties and degradability. <u>Ririko Fujiwara</u> , Yuichiro Kobayashi, Hiroyasu Yamaguchi
1Pe101	Polymer chromism with heptamethinenorcyanine dye <u>Mahiro Kukita</u> ,Arina Watanabe,Syouta Mizuno,Yasuhiro Kubota,Tosiyasu Inuduka,Kazumasa Funabiki
1Pf102	Analysis of the enzymatic degradability and rapid depolymerization of block copolymer containing high molecular weight poly(D-lactate) <u>Kyogo Iseki</u> ,Shin-ichi Hachisuka,Hiroshi Kikukawa,Ken'ichiro Matsumoto
1Pe103	Evaluation of the surface structure of plate and fibrous PMMA monoliths <u>Tomoko SHIRAHASE</u> ,Fumitake TAKAHASHI
1Pf104	Development of environmentally friendly high-solids urethane paints that reduce both VOC and CO2 emissions

## Nobuhito Katsumura, Yasuko Yamada, Yoshinori Hirono

1Pe105 Decomposition of poly(vinyl alcohol)-based films and the shapes of generated microplastics with equiangular polygon by an oxidizing environment

<u>Daigo Sawayanagi</u>, Yohei Kotsuchibashi

Bldg.4, Area4 4301

#### Wed. Sep 17

Presentation Time

<a = 10:20~11:00>

<br/><b = 11:00~11:40>

#### A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

2Pa001	Development of triepoxides with a rigid ortho-ester skeleton dervied from myo-inositol <a href="Saki Igashira">Saki Igashira</a> , Atsushi Sudo
2Pb002	Development of Multifunctional Epoxides Derived from Trehalose <u>Satoshi Hazama</u> , Atsushi Sudo
2Pa003	Synthesis of a Tetraol via Visible-Light-Driven Reductive Coupling of 5- Hydroxymethylfurfural and Its Application to Polymer Synthesis <u>Misaki Yamaguchi</u> ,Atsushi Sudo
2Pb004	Anionic polymerization of maleimides using amines as initiators <a href="Yutaka Yamamoto">Yutaka Yamamoto</a> , Atsusi Sudo
2Pa005	Analysis of reaction and structural effects of PVP-assisted dispersion polymerization on sulfur-containing epoxy polymers. <u>Takumi Hashimoto</u> , Yuichiro Kobayashi, Hiroyasu Yamaguchi
2Pb006	Synthesis and Dielectric Properties of Tetramethyl-substituted Poly(phenylene sulfide) <u>Yuki Yoshida</u> ,Seigo Watanabe,Kenichi Oyaizu
2Pa007	Synthesis and Optical Properties of Cross-linked Poly(dithioacetal)s <u>Tomoya Yano</u> ,Seigo Watanabe,Kenichi Oyaizu
2Pb008	Adjusting Thermostability and Refractive Index of Aromatic Poly(dithioacetal)s via Side-chain Design <u>Hana Matsunaga,</u> Tomoya Yano,Seigo Watanabe,Kenichi Oyaizu
2Pa009	Chain-growth condensation polymerization of sulfonate monomer immobilized on metal-organic framework <u>Chika YASUMURO</u> , Yoshihiro OHTA, Ami NISHIZIMA, Takashi  UEMURA, Tsutomu YOKOZAWA
2Pb010	Synthesis of Bio-Based Polyamides with Hydroxycinnamic Acid Derivatives <u>Haruto Konno</u> ,Takumi Sato,Takumi Noda,Kenji Takada
2Pa011	Synthesis and biodegradability of new poly(ester-ether)s by the hydroxylyne click reaction <u>Yune Yokoi</u> , Akinori Takasu
2Pb012	Construction of a Hydrolyzable Carbon Backbone via Condensation of Meldrum's Acid with Carboxylic Acid chlorides <u>Yota Chiba</u> , Yasuhiro Kohsaka
2Pa013	Synthesis and degradability evaluation of polyesters obtained by dimerization of coumarin derivatives and condensation reaction with dicarboxylic acids <u>Konoka Kayatani</u> , Miyuki Oshimura

2Pb014	Synthesis of boron cross-linked polymers by polycondensation of tetrahydroxydiboron with tetraols <u>Akane Ohno</u> ,Shotaro Hayashi
2Pa015	Direct arylation polycondensation of click-induced monomers with dibromoarenes <u>Yuki Kitagawa</u> ,Shotaro Hayashi
2Pb016	Preparation of amphiphilic poly(β-amino ester) <u>Koki Hisatomi</u> ,Shin-ichi Yusa,Kokoro Tsusho
2Pa017	Synthesis of Amphiphilic Alternating Copolymers of the Dense Triazole Backbone with Controlled Stereochemistry and Degree of Polymerization <u>Zijun Yan</u> ,Misaki Nakahata,Yuri Kamon,Akihito Hashidzume
2Pb018	Synthesis of structure-defined polyimines from two diamines with different functions <a href="Reika Miseki">Reika Miseki</a> , Masaru Yoneyama
	B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES
2Pa021	Annealing effect on the crystal structure of nascent polypropylene granule <u>Yutaka Kobayashi</u> , Yasuhiko Otsuki, Hiroshi Ito
2Pb022	Effect of Mechanical Properties of Rubber Materials on Self-sealing Mechanism <u>Yoichiro Manabe</u> ,Shin Nishimura
2Pa023	Verification of measurement principles and equipment for low- temperature properties of rubber <u>Jinwoo Lee</u> ,Hiroaki Ono,Shin Nishimura
2Pb024	Nano-void Generation in Epoxy Resins by Exposure to High-Pressure Hydrogen <u>Tatsuru Nishikawa</u> ,Shin Nishimura
2Pa025	Spatial distribution of rapid decompression failure in transparent plastics <u>Hiroaki Ono</u> ,Masahiro Kasai,shin Nishimura
2Pb026	Influence of high-pressure hydrogen on polymer materials <u>Fumitoshi Kaneko</u> ,Keiko Ohyama,Hiroaki Ono,Shin Nishimura
2Pa027	Structural Changes in Crystalline Polymer Materials Induced by Exposure to High-Pressure Hydrogen Gas: Effects of Temperature and Pressure Cycling <a href="Keiko Ohyama">Keiko Ohyama</a> , Fumitoshi Kaneko, Hiroaki Ono, Shin Nishimura
2Pa029	Functionalization and Emission Property Control of Luminescent Sulfonic Acid Polymers <u>Kanta Kimura</u> , Shunsuke Ohtani, Kenichi Kato, Tomoki Ogoshi
2Pb030	Molecular Dynamics Simulation Study of Correlation Between Polymer Chain Orientation and Thermal Conductivity <u>Tetsuya Kobayashi</u> ,Norie Matsubara,Shosei Kubo
2Pa031	Modification of Mechanical Properties of PMMA Matrix Based on Control of Arm Chain and Core Structure of Star polymer Additives with Flexible Segments <u>Kumpei Yoshida</u> ,Shohei Ida,Shokyoku Kanaoka
2Pb032	Hyperpolarized Xe-129 and Solid-State C-13 NMR Study of Silk Fibroin Materials. Detection of Very Broad and Weak Signals by Hyper-CEST Spectroscopy <u>Hideaki Fujiwara</u> , Akira Naito, Tetsuo Asakura, Atsuomi Kimura
2Pa033	Evaluation of Absorption Properties of Various Polyimides in the 1–10 THz Band by Terahertz Spectroscopy

	<u>Haonan Liu</u> ,Ririka Sawada,Hiromichi Hoshina,Shinji Ando
2Pb034	Viscoelastic Properties of Composites of Cyclic [n] Phenylene Sulfide and Polystyrene <u>Koki Nishida, Ryohei Ikura, Kenji Yamaoka, Yoshinori Takashima</u>
2Pa035	Effect of adhesive interlayer on bending strain behavior in multilayer PET
21 a000	films <u>Hinako Yamashita</u> ,Jiayi Yu,Yusho Kishimoto,Miho Aizawa,Kyohei
2Pb036	Hisano,Atsushi Shishido  Multifaceted quantitative measurement of mechanical properties under tensile and bending deformations and its application to compressive behavior analysis of polymer films <u>Jiayi Yu</u> ,Yusho Kishimoto,Kyohei Hisano,Atsushi Shishido
2Pa037	Asymmetry in mechanical and optical responses between inner and outer surfaces of crystalline polymer films under bending deformation Yuki Otani, Jiayi Yu, Kyohei Hisano, Atsushi Shishido
	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS
2Pb042	Development of L-threonine-immobilized gels and their catalytic properties for asymmetric aldol reaction <a href="https://disable.com/Hideaki Tokuyama">Hideaki Tokuyama</a> , Yuto Ishida, Taichi Kano
2Pa043	Fabrication and thermomechanical properties of EPDM:CB fibers <a href="Yuma Furuya">Yuma Furuya</a> ,Shuki Toyoshima,Hidenori Okuzaki
2Pb044	Mechanoresponsive luminescence exhibited by a shape-memory polyurethane containing rotaxane-based supramolecular mechanophores <u>Ayane Mori</u> ,Riku Yamamoto,Yoshimitsu Sagara
2Pa045	Functionalization of Gels with Crosslinked Nanodomain Structures: Thermoresponsive Simultaneous Changes in Photoluminescence and Mechanical properties and Mechanical Toughening Hayato Wakuda, Shohei Ida, Masatoshi Oyama, Keiji Nakajima, Hiroki Takeshita, Takeshi Ueki, Shokyoku Kanaoka
2Pb046	Design of hydrogels hybridized with solvatochromic dyes visualizing the polarity of the internal environment and their temperature/pH-responsive luminescence properties <u>Taisuke Okada</u> ,Shohei Ida,Shin-ichiro Kato,shokyoku kanaoka
2Pa047	Design and Synthesis of a Self-Healing Slide-Ring Hydrogel Cross-Linked via the Diels-Alder Reaction Keiya Takahashi,Masatoshi Kidowaki
2Pb048	Stimuli-responsive polymer micelles triggered by pH or light <u>Sari Usuda</u> ,Rintaro Takahashi,Shin-ichi Yusa
2Pa049	Effects of steric hindrance and density of ionic functional groups on self-assembly in linear polysiloxanes <u>Fuya Matsunami</u> ,Yukikazu Takeoka,Mitsuo Hara
2Pb050	Thermosensitive properties of PAMAM dendrimers having precision amide dimer at the surface. <u>Minamo Nishikawa</u> ,Kai Ota,Keigo Aoi
2Pa051	Circular dichroism measurements of the st-PMMA inclusion complex gels prepared with various guest molecules in a mixture of toluene and a chiral compound <a href="Ryunosuke Yamamoto">Ryunosuke Yamamoto</a> , Takehiro Kawauchi
2Pb052	Synthesis of Biodegradable Polyrotaxanes Using Intramolecular Photocyclization as an End Capping Method <u>Nanako Noda</u> ,Masatoshi Kidowaki

2Pa053	Mechanochromic fluorescent supramolecular nanorings consisting of hetero-dumbbell-shaped molecules <a href="Shunsuke Imaoka">Shunsuke Imaoka</a> , Yoshimitsu Sagara
2Pb054	Study of temperature-responsive gels using polysaccharides <u>Koumei Harajiri</u>
2Pa055	Synthesis and photo-responsivity of $\pi$ -conjugated polymer bearing 8,8'-biscoumarin in the main chain Naoyuki Kishida, Aohan Wang
2Pb056	Development of a Polymer Thin-Film Tactile Sensor that Responds to Skin Deformation <u>Takahiro Aihara</u> ,Shinji Takeoka
2Pa057	Simultaneous synthesis and properties of poly(N-isopropylacrylamide)/polyethylene glycol IPN gels using various crosslinking agents <u>Hikaru Katou</u> ,Shigeki HABAUE
2Pb058	Synthesis and properties of IPN gel using maleic anhydride copolymer <u>Teruyoshi FURUHASHI</u> ,Shigeki HABAUE
2Pa059	Impact of EG chain length and monomer content on the thermoresponsive behavior of POEGMA-zwitterionic copolymers <a href="Mayuko Kira"><u>Mayuko Kira</u></a> , Daniel Citterio, Yuki Hiruta
2Pb060	Development of high-strength gel material with bone-like remodeling properties <u>Riku Fukuoka</u> ,Takuma Kureha
2Pa061	Self-association behavior of hydrophilic polymers bearing a terminal hydrophobic dodecyl group in water Ngan Thi Vu,Shinichi Yusa
2Pb062	Development of ion gel cell scaffold materials exhibiting photo-induced phase transition in non-cytotoxic ionic liquids. <u>Tsubasa Naka</u> , Takeshi Ueki
2Pa063	Mechanical Properties of Highly Stretchable Hydrogels with Hydrophobic Aggregation Noriko Kurihara, Ryouhei Ikura, Hiroaki Yoshida, Hiroharu Ajiro
2Pb064	Synthesis of silk fibroin composite polymer gels using various diglycidyl ethers Jieyu ZHANG,Zhi-Qing WANG,Shigeki HABAUE
2Pa065	Irreversible fluorescence change exhibited by rotaxane-based supramolecular mechanophores with short axles  Naoki Shimada, Yoshimitsu Sagara

Bldg.4, Area4 4201

2Pb066	Synthesis of temperature-responsive polymer gels with dangling chains <u>Honami Itakura</u> ,Kai Kawabata,Taiki Hoshino,Yukikazu Takeoka
2Pa067	Spatial Control of Selective Reflection Color Based on Chiral-Nematic

	$\underline{\text{Keishiro Uehara}}, \!\!\!\!\text{Tatsuya Ishibe}, \!$
2Pb068	Optical Properties of Core-Shell Chiral-Nematic Liquid-Crystalline Polymer Particles with Radial Alignment Gradients <u>Rina Tanigawa</u> ,Tomoki Shigeyama,Kohsuke Matsumoto,Osamu Tsutsumi
2Pa069	Synthesis of Refractive Index-Tunable Methacrylate Copolymers and Development of a Novel Thermochromic Polymer Blend Konomi Yamashita, Takayuki Hirai, Norihiro Mizoshita
	D. BIOPOLYMERS AND BIORELATED POLYMERS
2Pa073	Preparation of self-healing microgels and the application to biomolecule sustained release matrix <u>Kasumi Ariake</u> , Yuta Yoshizaki, Tomohiro Konno
2Pb074	Temperature-responsive antibacterial properties of cicada-wing-inspired nanopillar hydrogel films. <u>Rui Ikeda</u> , Yohei Kotsuchibashi
2Pa075	Effect of molecular crowding on sol-gel transition and mechanical strength of gelatin <u>Gaku Yazawa</u> ,Shigehito Osawa
2Pb076	Self-assembling behavior of diblock copolymers composed of pH-responsive peptide and thermo-responsive vinyl polymers. <u>Taisei Kawai</u> ,Shin-nosuke Nishimura,Tomoyuki Koga
2Pa077	Design of Stimuli-Responsive Polymeric Materials Responding to Denatured Proteins and Their Recognition Behavior <a href="Yuto Murashima">Yuto Murashima</a> , Akifumi Kawamura, Takashi Miyata
2Pb078	Controlled formation of inorganic nanomaterials based on anion valence of the constituents and the encapsulation behavior of biomacromolecules Sachi Ibuki, Tomohiro Umeno, Tomonori Waku, Tetsuya Kambe, Makoto Oba, <u>Hiroyasu Takemoto</u>
2Pa079	Secondary Template effect accompanying progressing of HAp mineralization-Correlation between the structural transition of templates and crystal growth processes- Yusuke Hattori, Shogo Matsubara, Masahiro Higuchi
2Pb080	Effect of Oxygen Addition on Microstructure Formation to Commercial Acrylic Plate Surface Using Atmospheric Pressure Low-Temperature Plasma Ayumu Takada, Motoki Tanaka, Atsushi Sekiguchi, Masashi Yamamoto
2Pa081	Edible gas marbles <u>Takuto Yagishita,</u> Fameau Anne-Laure,Syuji Fujii
2Pb082	Development of a synthesis method for DNA-encoded oligomer libraries <u>Tomohiro Yamanaka</u> ,Hayato Tada,Honoka Moriguchi,Sotaro Tsuji,Yukiko Nagai,Yu Hoshino
2Pb084	The atelocollagen fiber reinforced with slide-ring polymer for artificial tendon/ligament applications <u>Riku Kubota</u> ,Ichiro Fujimoto
2Pa085	Application of stiffness-tunable magnetic nanoparticle cross-linked PEG gel scaffolds for myoblast differentiation <u>Rion Takada</u> , Ayano Ogawa, Nanami Kuwahara, Masao Kamimura
2Pb086	Observation of cell behavior using stiffness-tunable magnetic nanoparticle cross-linked PEG gel scaffolds <u>Ayano Ogawa</u> ,Nanami Kuwahara,Rion Takada,Yutaro Arai,Ryo

Inoue,Masao Kamimura

2Pa087	micelle cross-linked gels <u>Yuto Chiba</u> , Yu Ochiai, Tomoki Iwashita, Nanami Kuwahara, Masao  Kamimura
2Pb088	Preparation of Cell-Transplantable Gel Beads Encapsulating Bone-Like Components and Osteoinductive Factors Shota TSUKADA, Syuuhei KOMATSU, Shohei SHIOMOTO, Tatsuya NISHINO, Akihiko KIKUCHI
2Pa089	Impact of hydrogel charge density and stiffness on cancer stemness induction <u>Wakana Komamura</u> , Yanpeng Sun, Yoshinori Katsuyama, Tomoki Yasui, Takayuki Kurokawa

## D. BIOPOLYMERS AND BIORELATED POLYMERS

2Pb090	Lowest gelation concentration of injectable polymers with different molecular archtechture <u>Hiroyuki Imai</u> ,Yusuke Taoka,Yuichi Ohya
2Pa091	Development of ß-tricalcium phosphate dispersion injectable gel formulations for alveolar bone regeneration. <u>Momoka Tokuoka</u> ,Seigo Ohba,Yo Shibata,Yasutaka Sugamori,Keijiro Kojima,Arina Takada,Yusuke Taoka,Yuichi Ohya
2Pb092	Development of Light-Induced Rapidly Gelating Natural Polymers and Their Application to 3D Cell Culture Systems <u>Masaaki Okihara,</u> Ayaka Tomoda,Toshiyuki Takagi,Kimio sSumaru
2Pa093	Engineering Cell-Compatible Click-Gels via Strain-Promoted Crosslinking of Azide-Modified Hyaluronic acid <a href="Kazuya Shimada">Kazuya Shimada</a> , Taichi Ito, Natsuko Inagaki, Masayuki Tera
2Pb094	Development of Photo-responsive Cell Culture Scaffolds Using Shellac Modified with Coumarin Derivatives. <u>Kouki Ando</u> ,Toshihisa Mizuno
2Pa095	Structure and function analysis of cell aggregate inducing peptides incorporating nonnatural amino acids <u>Ami Tsuboi</u> , Hiroaki Kadobayashi, Takuya Sugiyama, Masaki Iwamoto, Yoshiaki Hirano
2Pb096	Design of injectable polymer systems that aim to achieve high levels of tissue adhesion, mechanical properties, and degradability <a href="Yuki Miyaji">Yuki Miyaji</a> , Yusuke Taoka, Yuichi Ohya
2Pa097	Electrospinning of Photo-responsive Cell Culture Scaffold, DEAC-Shellac, and Evaluation of Light-irradiation Effects on its Cell Adhesion Properties <u>Ritsuho Ono</u> , Ando Koki, Tosihisa Mizuno
2Pb098	Development of a Fibermat-type Immobilized Enzymes, in which Enzyme Molecules were Encapsulated within Fibermat Nanofibers, made of Network Polymers via in situ Huisgen Cycloaddition of Post-Crosslinkable Polymer and Cross-Linker. <u>Hikaru Sugiura</u> , Toshihisa Mizuno

Bldg.4, Area4 4301 Presentation Time <c = 13:20~14:00> <d = 14:00~14:40>

#### A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

2Pc001	Synthesis of block copolymers from monomer mixtures composed of acrylates and methyl crotonate using Lewis pair catalysts <u>Huma Yamamoto</u> ,Shin-ichi Matsuoka
2Pd002	Aluminum-transfer polymerization of (meth)acrylates <u>Mei Ueno</u> ,Shin-ichi Matsuoka
2Pc003	Synthesis of Block and Graft Copolymers using Lewis Pair Polymerization of Acrylamides <u>Osuke Ishihara</u> ,Shin-ichi Matsuoka
2Pd004	Synthesis and properties of hyperbranched poly(1,1-ditolyethylene) <u>Tamami Kondo</u> ,Honoka Matsumoto,Kaoru Adachi
2Pc005	Control of the anionic polymerization mechanism of p-methylstyrene using various bases <u>Yu Hui LIM</u> ,Kaoru ADACHI
2Pd006	Anionic polycondensation of benzyltrimethylsilanes via desilylation with fluoride ions <u>Taishi Nakatani</u> ,Kuruto Mae,Kaoru Adachi
2Pc007	N-Heterocyclic Carbene-catalyzed anionic polymerization of trityl methacrylate <u>Soma Sugimoto</u> ,akinori Takasu
2Pd008	Anionic Ring-Opening Polymerization of Cyclic Trisiloxane Monomers Catalyzed by an Organic Base Using Polystyrene as a Macroinitiator <u>Haku Saito</u> ,Ryota Uehara,Riku Takahashi,Shinsuke Maekawa,Takehiro Seshimo,Naohiro Dazai,Kan Hatakeyama,Yuta Nabae,Teruaki Hayakawa
2Pc009	1,4-Selective Anionic Polymerization of Bio-Based 1-Phenyl-1,3-Butadiene Derivatives <u>Yasunobu Isobe</u> ,Tomohiro Kubo,Kotaro Satoh
2Pd010	Preparation and Polymerization of 7-Aryl-3,4-methylenedioxy- orthoquinone Methides with Substituted Phenyl Groups <u>Atsushi Sugiura</u> ,Ryosuke Shigemori,Masataka Kubo,Takahiro Uno
2Pc011	Development of Photoinduced Cationic RAFT Polymerization by Non-Ionic Photoredox Organocatalysts

## **B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES**

2Pc021 Effect of Number Fluctuation on Dynamic Light Scattering <u>Toramasa Uematsu</u>,Takashi Hiroi

2Pd022	Structural analysis of gels prepared by radical copolymerization of styrene and diacrylate using a combination of polymer reaction and multivariate analysis of 1H NMR spectra <u>Reina Tamakoshi</u> , Hitoshi Nishimura, Ryo Kawatani, Kohei Torii, Ken Yoshida, Hitoshi Mizuguchi, Tomohiro Hirano
2Pc023	Quantitative analysis of Poly(vinyl acetate) contained in paper <u>Hayato Watanabe</u> ,Shinsuke Sato,Michiko Kuroda
2Pd024	Sequence Analysis of Siloxane Octamers by Mass Spectrometry and Their Application to Molecular Tagging Shotaro Ito, Kazuhiro Matsumoto, Hiroaki Sato
2Pc025	Effect of mobile phase polarity on GPEC separation behavior <u>Chika Nogami</u> , Atsuko Naito
2Pd026	Theory of the Racemization Kinetics of Helical Foldamers <u>Nozomu Suzuki</u> , Toyoko Suzuki, Hideto Minami
2Pd028	Effect of Salt and Sugar on Viscosity and Drug Release Behavior of Mixed solution of Xanthan gum and Xyloglucan Kunihiko Itoh, Fumiya Chikushi, Tetsuya Shimoyama, Akira Tabuchi, Yumeo Suzuki, Kazuhiko Yamatoya, Michiya Kobayashi
2Pc029	Elucidation of Mechanism of Liquid-Liquid Phase Separation in Transient Networks through Control of Network Functionality <u>Shota Michida</u> ,Mitsuru Naito,Ung-il Chung,Takuya Katahima
2Pd030	Relation between the changes in viscosity and hydration state of aqueous PEO solutions by addition of salts or small organic molecules Wakaba Sakamoto, Mafumi Hishida
2Pc031	Thermal Analysis of Mullins Effect in Filled Elastomers <u>Koshi Shimazaki,</u> Kakeru Obayashi,Katsuhiko Tsunoda,Kenji Urayama
2Pd032	Relationships between rheology of Ni paste and solution/adsorption behaviors of ethyl-cellulose Kenji Fukuda, Moriya Kikuchi, Yuya Doi, Seigou Kawaguchi
2Pc033	Molecular dynamics simulation on the effect of side chain length in acrylate polymer systems <a href="mailto:Shuuhou Nakashima">Shuuhou Nakashima</a> , Tatsuya Ishiyama, Makoto Gemmei
2Pd034	Molecular Interpretation of Thermoresponsive Behavior of Amide-based Polymers using All-atom Molecular Dynamics <u>Kotaro Fujii</u> ,Takuro Tsutsumi,Kazuki Sada
2Pc035	Elucidation of the Viscosity Inversion Between Microscale and Macroscale in a Deep Eutectic Solvent Koichi Murakami, Soh Kushida, Shunichiro Noguchi, Hiroshi Masai, Jun Terao, Yohei Yamamoto
2Pc037	Peculiar Deformation of CircularVacancy Defect in Liquid Crystal Elastomer Takumi Kato,Yasushi Okumura,Hirotsugu Kikuchi,Urayama Kenji
2Pd038	Molecular Design and Synthesis of Liquid Crystalline Polybenzoxazoles toward Enhanced Thermal Conductivity <u>Taisei Sakurai</u> , Hayato Maeda, Yuqian Chen, Kan Hatakeyama, Yuta Nabae, Teruaki Hayakawa
2Pc039	Effect of Terminal Groups on Mesogenic Side Chains on the Liquid Crystalline Behavior of Side-Chain Liquid Crystal Polymers with Long Spacer Satoshi Tanaka, Seiji Ujiie
2Pd040	Preparation and structural evaluation of oriented films of PBO using water-based lyotropic liquid crystal precursors <u>Aogi Amada</u> ,Ryohei Ishige

2Pd042	Material Reservoirs of Self-Doped Polythiophene Nanofilms Using Mixed Ion-Electron Conduction <u>Yuya Ishizaki</u> , Motoaki Onishi, Hirokazu Yano, Shusaku Nagano
2Pc043	Development of Astaxanthin-containing Segmented Polyurethanes Showing Antioxidant and Antibacterial Activity <u>Maki Kanda</u> , Hiromitsu Sogawa, Fumio Sanda
2Pd044	Functional evaluation of hydrogels formed from water-soluble phospholipid polymers with controlled dissolved state <a href="Temma Takamisawa">Temma Takamisawa</a> , Yuta Yoshizaki, Tomohiro Konno
2Pc045	Effect of the freezing process on properties of self-oscillating gels <u>Hikaru Amano</u> ,Takahumi Enomoto,Ryo Yoshida
2Pd046	Circularly Polarized Reflection in Layered Chiral-Nematic Liquid- Crystalline Elastomers Incorporating an Auxetic Structure <u>Mengqi Li</u> ,Yudai Fuwa,Kohsuke Matsumoto,Osamu Tsutsumi
2Pc047	Development of a hinge-like mechanophore that changes red fluorescence intensity <u>Kota Masuda</u> ,Shohei Shimizu,Yoshimitsu Sagara
2Pd048	Development of Mechano-Responsive Photoluminescent Polyurethane Elastomers <u>Tetsuma Inaoka</u> ,Hiromitsu Sogawa,Fumio Sanda
2Pc049	Design and characterization of sustained drug release hydrogels using kinetically-controlled cleavability of dioxazaborocane <u>Daichi Yamawaki</u> , Wenbo Wang, Keiichiro Yaginuma, Kevin  Barthelmes, Mao Hori, Takao Aoyagi, Toru Hoshi, Akira Matsumoto
2Pd050	Rotaxane-based supramolecular mechanophore featuring a platinum complex <u>Yuto Yoshida</u> , Yoshimitsu Sagara
2Pc051	Phase separation behavior by design of polymer-solvent hydrogen bonding <u>Shu Takeuchi</u> ,Koki Takasu,Natsuki Inaba,Keitaro Matsuoka,Kazuki Sada
2Pd052	Effect of Halogenations on Pressure-Induced Phase Transitions in Pressure-Responsive Polymers <u>Sota Kakesu</u> , Takaya Okazaki, Fanny Moses Glady, Ikuo Taniguchi

Bldg.4, Area4 Foyer

2Pc053	Activation of the Surface Proton Hopping Conduction Mechanism via Dense Alignment of Sulfonate Groups and Elucidation of Water Molecule Dynamics on the Surface  Mina Nakazawa, Takeshi Yamada, Tang Yumin, Zeng Xiangbing, Takahiro Ichikawa
2Pd054	Study on the mechanism of the luminescence phenomenon of external stimulus response liquid materials Hibiki Oota, Kyoichi Tsurusaki, Rika Takeda, Takumi Oomura, Shougo Morisako, Kyosuke Isoda, Ryo Takahashi
2Pc055	In-Plane Uniaxial Alignment of Helical Axis in Chiral Liquid Crystalline Polymer Self-Assembled via Photo-Gradient Polymerization <u>Yuki Shikata</u> ,Kohsuke Matsumoto,Osamu Tsutsumi

2Pd056	Orientation control of liquid crystalline block copolymer thin films with supramolecular side chains <u>Yuki Machida</u> , Yuya Ishizaki, Takahiro Seki, Shusaku Nagano
2Pc057	Evaluation of Phosphate Ion Adsorption Capacity of Hollow-type Spherical Bacterial Cellulose Gels Encapsulating Anion Exchange Resin Yuito Ito, Toru Hoshi
2Pd058	Fluorescence Properties of Gels Cross-Linked with Aggregation-Induced Emission Luminogens <u>Yuki Ayuzawa</u> ,Takashi Miyata
2Pc059	Surface Modification of Sharp-Memory Aliphatic polyester with Zwitterionic Polymers <u>Koshi Ota</u> ,Takumi Yoshida,Toru Hoshi
2Pd060	Synthesis and Characterization of Slide-Ring Hydrogels Incorporating Styryl pyridinium Derivatives with Photo-crosslinking and Self-healing Properties <u>Seiya Otani</u> , Masatoshi Kidowaki
2Pc061	Development of Functional Rheological Fluids Using Thermo-Responsive Polymer Electrolytes with Liquid-Crystalline Properties <u>Nozomi Matsuo</u> ,Ryosuke Shinkon,Akihiko Kanazawa
2Pd062	Higher-Order Structure and Enantioselective Adsorption Ability of Chiral Supramolecules Constructed by Carbamoylated Riboflavins bearing Azobenzene Moiety <u>Nico Ishige</u> , Cheng-Wei Huang, Hiroki Iida
2Pc063	Encapsulation of Activated Carbon with Cellulose Gel and Evaluation of Its Glucose Adsorption Capacity <u>Yusuke Yamamoto</u> , Toru Hoshi
2Pd064	Fabrication of crosslinked liquid-crystalline polymer films by dual wavelength photopolymerization: effect of crosslinker concentration on thermal deformation behavior <u>Kotaro Shinmura</u> ,Kaito Takahashi,Miho Aizawa,Kyohei Hisano,Shoichi Kubo,Atsushi Shishido
2Pc065	Synthesis and physical properties evaluation of conductive polymer hydrogels using PEDOT:NBP <u>Mina Matsumoto</u> ,Kouken Kaku,Hiroyuki Aota

2Pd066	Correlation between Dynamic Mechanical Properties of polymers and Structural Flexibility of Hydrogen Bonds Rena Tajima, Shintaro Nakagawa, Naoko Yoshie
2Pc067	Mainchain structure and hybrid LC phases in side-chain LC polymer blends with binary heterogeneous mesogens <a href="Shoichi KANAI">Shoichi KANAI</a> , Shion DAIKUHARA, Yuno YOKOTA, Yuya ISHIZAKI, Shusaku NAGANO
2Pd068	Development of Injectable Hydrogels with Tunable Gelation Time via Multi-Substituted Dioxazaborocane Structures <u>Yingfu Zhao</u> ,Barthelmes Kevin,Debabrata Palai,Mao Hori,Takuya Katashima,Akira Matsumoto
2Pc069	Main Chain Orientation and Current-Voltage Characteristics of Self- Doped Conducting Polymer Monolayers <u>Kentaro SUZUKI</u> , Yuya ISHIZAKI, Hirokazu YANO, Shusaku NAGANO

# D. BIOPOLYMERS AND BIORELATED POLYMERS

2Pc073	Synthesis of amphiphilic block copolymers having FRET dye and their application to polymeric micelle characterization Genki Murofushi, Makoto Obata
2Pd074	Introduction of FRET dye into block copolymers via post-polymerization modification and stability evaluation of their polymer micelles <u>Kotomi Umehara</u> , Makoto Obata
2Pc075	Synthesis of amphiphilic block copolymers bearing AIEgen and characterization of the resulting polymeric micelles <u>Daiki Sakajiri</u> , Makoto Obata
2Pd076	Encapsulation of benzoxaborole-based drugs by polymeric carriers having diol groups via a dynamic covalent bonding <a href="Ryo Chiba">Ryo Chiba</a> , Daigo Sawayanagi, Yohei kotsuchibashi
2Pc077	Functional Evaluation of CaCO3-coated Vesicles for DDS Carriers having Targeting Ability using Tissue Model Gels <u>Wakana Nishiyama</u> , Masahiro Higuchi, Shogo Matsubara
2Pd078	Evaluation of photophysical properties of up-conversion in dye- encapsulated cationic liposomes <u>Yuna Imagawa</u> ,Hideki Kawai
2Pc079	Effect of cholesterol on upconversion in dye-encapsulated liposomes <u>Tomohito Nakayama</u> ,Hideki Kawai
2Pd080	Encapsulation of Phosphorylated Chitosan into Ceramide-Containing Giant Liposomes <u>Kiho Umezu</u> ,Yuuka Fukui,Keiji Fujimoto
2Pc081	Preparation of Fe ion-Incorporated Oil Droplets by S/O/W Emulsification for Induction of Ferroptosis <u>Mai Shiraki</u> ,Yuka Fukui,Keiji Fujimoto
2Pd082	Preparation of polymer nanoparticles with phenylboronic acid- functionalized solid-fluid interface and post-loading of drug <u>Kazuma Seo</u> ,Yuta Yoshizaki,Tomohiro Konno
2Pc083	Isolation and Characterization of Lipid Nanoparticles derived from the Apoplastic Fluid of Fresh Flowers <u>Ayaka Sato</u> , Mizuki Yoshihara, nana Nakabayashi, Chisato Nishitani, Hruka Takai, Kurumi Watanabe, Pirika Chiba, Shinka Dejima, Mayuka Higo, Kenichi Nonaka, Ryosuke Mizuta, Masanao Yoshimoto, Yoshihiro Sasaki, Hikaru Takaya
2Pd084	Generation of Lipo-Nanocapsule Co-immobilized with Ligands and Initiators for Amplification of Affinity Detection <u>Yukina Ashida</u> ,Yuuka Fukui,Keiji Fujimoto
2Pc085	Preparation of PIC micelles responsive to weakly acidic environments using autolysis-controlled protease <u>Aoi Kanatsu</u> ,Remi Yumiyama,Yukiya Kitayama,Atsushi Harada
2Pd086	Nanodiscs with hyaluronic acid derivatives and their functionality Yusuke Masuda, Toshihiro Mori, Kazuma Yasuhara
2Pc087	Vesicle shapes adsorbed on the flat substrate by the attractive and depletion interactions <u>Rikano Yanai</u> ,Naohito Urakami
2Pd088	Amyloid Fibrillation of $\beta$ -lactoglobulin in Aqueous Multi-Phase Systems Miyuka Tateyama, Yuji Higaki
2Pc089	Phase Separation Behavior of Polymer Droplets Induced by Electrostatic Interactions of Zwitterions <u>Haruna Shiroi</u> , Yuji Higaki

## D. BIOPOLYMERS AND BIORELATED POLYMERS

2Pd090	Electrolyte Concentration Dependence in Microphase Separation of Double Zwitterionic Block Copolymer Aqueous Solutions Yuri Mitsunobu, Yasuhiro Eguchi, Michiaki Ito, Yuji Higaki
2Pc091	Synthesis of Polymer-Based Tubular Micromotors Detecting Biotinylated Protein <u>Yuki Kiuchi</u> ,Yuma Sakai,Teruyuki Komatsu
2Pd092	Preparation of reductively responsive nanocapsules using triblock copolymers with pyridyl disulfide groups <u>Yuki Sawa</u> ,Takashi Miyata,Akifumi Kawamura
2Pc093	Viscoelastic properties of elastin-like polypeptide hydrogels <u>Kensuke Kawasaki</u> ,Ayae Sugawara-Narutaki
2Pd094	Bottom-up reconstruction of adhesion-related proteins and their bioapplications <u>Yusuke Tani</u> ,Eisuke Kanao,Yasushi Ishihama,Ryosuke Miuta,Kazunari Akiyoshi,Yoshihiro Sasaki
2Pc095	Preparation of biodegradable particles with multi-branching structure of the core having melting temperature near body temperature <a href="Yaeki TACHIOKA">Yaeki TACHIOKA</a> , Syuuhei KOMATSU, Shohei SHIOMOTO, Akihiko KIKUCHI
2Pd096	Nanocarrier design to impart anti-immunoresponsive and cancer cell-targeting properties to polymerized copper complexes that can enhance anticancer activity  Masatomo Kohro, Masaru Mukai, Hidenori Otsuka
2Pc097	Photocontrol of higher-order structures of DNA by thermally bistable molecular photoswitches <u>Sota Tsuruda</u> ,Keiichi Imato,Hiroto Okuda,Naoki Kaneda,Keiji Murayama,Yousuke Ooyama
2Pd098	Antiparallel structure of G-quadruplex induced by PVA Natsuki Yanagida,Takahiro Nakamura, <u>Ryoko Uda</u>
2Pc099	Application of DNA Oligo Pool to AI Technology <u>Asuka TATEDORI</u> ,Qing LIU,Yuya SHIGEHARI,Kyou SONODA,Akinori KUZUYA
Bldg.4, Area4 4301 Presentation Time <e 15:20~16:00="" ==""> <f 16:00~16:40="" ==""></f></e>	

## A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

2Pe001	Synthesis of 3,5-Hydantoins by isocyanate-free method and their Thermal Properties tomoya hayashi,haruto minami,yuji kosugi,takehiro kawauchi,yoshio furusho
2Pf002	Effect of Diamine's Backbone on the Intramolecular Cyclization of Ureas to 3,5-Hydantoins <u>Takuya Okuda, Haruto Minami, Tomoya Hayashi, Fumiyuki</u> Toshimitsu, Yuji Kosugi, Takehiro Kawauchi, Yoshio Furusho

2Pe003	Introduction of Reversible Cross-linking into Epoxidized Natural Rubber via Pyridine Functionalization <u>Hiromu Hosoya</u> ,Toshikazu Takata,Toshio Tada
2Pf004	Synthesis, reactivity and properties of reactive poly vinylpyridinium salts with polyiodide anion <a href="Keigo Hata">Keigo Hata</a> , Isao Yamaguchi
2Pe005	Development of Waterborne Polymers That Show Water Solubility Based on Lewis Adduct Formation Only Under Concentrated Conditions Shio Uebo, Akira Takahashi, Hideyuki Otsuka
2Pf006	Construction of interpenetrating polymer networks using structural transformation of cross-linked polymers with dynamic hindered disulfide linkages Keigo Oka,Fuga Sawakawa,Akira Takahashi,Hideyuki Otsuka
2Pe007	Properties and reactivity of epoxy resins incorporating aromatic disulfide bond and triethanolamine structure  Yue Wu, Akira Kodaka, Akira Takahashi, Hideyuki Otsuka
2Pf008	Structure-Property Relationship of Triethanolamine-containing Polymers with Variable Main Chain Rigidity of Based on Boration Nobuho Kobayashi,Shio Uebo,Akira Takahashi,Hideyuki Otsuka
2Pe009	Synthesis and Mechanochromism of Cross Linked Polyolefins Incorporating Mechanochromophores <u>Masahiro Fukuhara</u> ,Akira Takahashi,Hideyuki Otsuka
2Pf010	Mechanoresponsive behavior of polymers incorporating fluorescent and thermostable non-symmetric mechanophores Kaito Hosono, Akira Takahashi, Hideyuki Otsuka
2Pe011	Transformation of polymeric mechanoradicals into stable carbon-centered radicals using a benzoquinone skeleton <u>Akira Kodaka</u> ,Hajime Sugita,Akira Takahashi,Hideyuki Otsuka
2Pf012	Investigation of thermal and mechanochemical reactivity of diaryltetracyanoethane derivatives with different substituents and its application to polymer reaction  Masashi Yamauchi, Akira Takahashi, Hideyuki Otsuka
2Pe013	Development of site-specific post-polymerization modification of acrylamide polymers via intramolecular reactions <u>Konosuke Wada</u> , Hayato Tada, Honoka Moriguchi, Masaya Ifuku, Sotaro Tsuji, Yukiko Nagai, Yu Hoshino
2Pf014	Dynamic Properties of Acylal Bonds and Application to Cross-linked Acryl Polymers with Processability <u>Sumire Hayakawa</u> , Yasuhiro Kohsaka
2Pe015	Main-Chain Scission of Poly(conjugated ester)s via Conjugate Substitution Reaction by Intramolecular Catalyst <u>Kanta Suzuki</u> ,Yasuhiro Kohsaka
2Pf016	Evaluation of Synthetic Feasibility of Virtual Polymers: Theoretical Investigation of Radical Polymerization of Amide-Based Polymers Kotaro Onishi, Takuro Tsutsumi, Gikyo Usuki, Kazuki Sada
2Pe017	Evaluation of Synthetic Feasibility of Virtual Polymers: Construction of a Machine Learning-Based Screening Scheme <u>Takuro Tsutsumi</u> , Gikyo Usuki, Kazuki Sada
2Pf018	Development and applications of new acid degradation methods of various heat-resistant polymers containing aryl-heteroatom linkages <u>Tsuyoshi Takano</u> , Ryoyu Hifumi, Ikuyoshi Tomita
2Pe019	Post-functionalization and applications of polyphenylene ether <u>Tsuyoshi Takano</u> ,Ryoyu Hifumi,Ikuyoshi Tomita

2Pf020	Radical Analysis of Thermo-oxidative Degradation Reactions of Polymer Materials by Simulteneous Chemiluminescence-ESR Measurement <u>Wataru Sakai</u>
2Pe021	Conversion of aromatic polyimines to polybenzothiazoles by sulfur Masaru Yoneyama, <u>Sakurako Hoshino</u>
2Pf022	End-selective transcarbamoylation to sequence-defined polyurethanes <u>Mao Tsukamoto</u> ,Shotaro Hayashi
	B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES
2Pe025	structural assessment of fine particle film by AFM with a uniaxial stretching device <u>Natsuki Watanabe</u> , Takayuki Uchihashi, Feng-Yueh Chan, Daisuke Suzuki, Yuichiro Nishizawa
2Pf026	Elucidating adhesion mechanisms of cyanoacrylate-based instant adhesives by first-principle density functional theory calculations <u>Yosuke Sumiya</u> ,Koki Kubo
2Pe027	Spectroscopic Investigation of Water Structure on Silanol Surfaces under Three-Phase and Continuous-Phase Conditions <u>Yuri Kishimoto</u> ,Shigehiro Kagaya,Makoto Gemmei-Ide
2Pf028	Evaluation of adsorption-desorption dynamics at the interfaces of polymer liquids via chip nanocalorimetry <u>Kyoji Ozaki</u> ,Miina Mori,Takashi Sasaki
2Pf030	Microstructure Analysis for Polystyrene Spheres and EUV Resist Thin Films by Resonant Soft X-ray Scattering <u>Shinji Yamakawa</u> ,Yuri Ebuchi,Naoki Hayase,Toshio Akai,Tetsuo Harada
2Pe031	Update of Sample Environment Equipment for Neutron Reflectivity Measurement for Structural Characterization of Polymer Thin Films Noboru Miyata, Hiroshi Kira, Kazuki Mita, Hiroyuki Aoki
2Pf032	Analysis of viscoelasticity of a single polymer chain using atomic force microscopy <u>Takumi Hirose</u> ,Xiaobin Liang,Ken Nakajima
2Pe033	Viscoelastic Analysis of the Velocity Dependence of Adhesion Energy Measured by Atomic Force Microscopy <u>Kanon Hasegawa</u> ,Makiko Ito,Xiaobin Liang,Ken Nakajima
2Pf034	Preparation of Flexible Polymer Films Focusing on Glass Transition Temperature and Evaluation of Their Properties <u>Rene Nishikubo</u> ,Yuta Yoshizaki,Tomohiro Konno
2Pe035	Influence of Reversible Bonds on Interfacial Diffusion Behavior of Polymers <u>Iori Ogasa</u> ,Kenji Yamaoka,Yoshinori Takashima
2Pf036	Atomic Force Microscopy Study on Nano-Viscoelasticity of Filler-Filled Rubber <u>Yuji Funado, Makiko Ito, Xiaobin Liang, Ken Nakajima</u>
2Pe037	Development of a Novel Methods for Analyzing Polymer Surface Properties via Wettability: Selection of Probe Liquids and Causal Analysis Using Machine Learning"  Ryo Taguchi, Koga Kenhi, Kazuki Tajima

2Pf042	Photoconversion of Polymer Properties Based on Reversible Cycloaddition of Coumarin Groups in the Side-Chains <u>Arato Ishida</u> ,Thi Trang Ngo,Takeshi Miyagawa,Masaya Moriyama
2Pe043	Relationships between Crystal Structure and Photoisomerization Ratio in Photoresponsive MOFs with Azobenzene Groups <u>Takashi Yoneda</u> ,Shizuka Anan,Kenta Kokado
2Pf044	Design of amphiphilic liquid crystalline polymers that undergo phase transition near body temperature and formation of their self-assemblies <u>Ryoki Kamei</u> , Akifumi Kawamura, Takashi Miyata
2Pe045	Adsorption of Uremic Toxin Precursors by Cellulose Gel Capsules Encapsulating Activated Carbon <u>Ayu Tatsumi</u> ,Toru Hoshi
2Pf046	Photoinduced solid-to-liquid and glass-to-liquid transitions of polymers with thermally bistable molecular photoswitches in side chains <a href="Ryuma Inami">Ryuma Inami</a> , Keiichi Imato, Naoki Kaneda, Yousuke Ooyama
2Pe047	Preparation of soft cross-linked temperature-responsive topological gels using localization of hydrophobic monomers in the molecular nets Koya Ichikawa, Yamato Fujita, Kenichiro Mizuguchi, Yusuke Taoka, Yuichi Ohya
2Pf048	Novel library of degradable hydrophilic homopolymer N-alkylated nylons <u>Keitaro Matsuoka</u> ,Akari Sugano,Kazuki Sada
2Pe049	Investigation of multi-degradability and thermo-responsiveness in sulfur-containing N-alkylated Nylon Shintaro Tsuchisaki, Masanori Miyoshi, Akari Sugano, Keitaro Matsuoka, Kazuki Sada
2Pf050	The effect of the monomer chemical species on the structure of nanocomposite microgels in seeded emulsion polymerization <a href="Hayato Setoguchi">Hayato Setoguchi</a> , Haruka Minato, Daisuke Suzuki
2Pe051	The myosin-acrylamide double-network gel swells at high ionic strength. <u>Lishuang Xia</u> ,Tasuku Nakajima,Yoshihito Osada,Ken-Ichi Sano
2Pf052	Polymerization Using Radical-Initiators Containing Photoresponsive Moieties and Evaluation of Photochemical Properties <u>Akihiro Sumi</u> ,Arato Ishida,Masaya Moriyama

Bldg.4, Area4 Foyer

2Pe053	Preparation of material reservoirs using doped P3HT monolayer networks <u>Naoki Hara</u> , Yuya Ishizaki, Shusaku Nagano
2Pf054	Synthesis and properties of hydrophilic polymers with bifunctional urethane methacrylate cross-linkers derived from hydroxyurethanes <u>Tatsuki Morita</u> , Yoshiaki Yoshida
2Pe055	Development of photo-responsive soft materials by stable hybridization of liquid crystals and photo-thermal nanoparticles <u>Takumi Mihara</u> ,Sumiri Kinoshita,Koki Sano
2Pf056	Preparation of poly(lipoic acid) hydrogels and gel particles with reductively cleavable main chain  Ryoma Kotani, Takashi Miyata, Akifumi Kawamura
2Pe057	Preparation and physical properties of shape-memory materials using photodimerization reaction of cumarine moieties <u>Taiga Sakata</u> , Hideki Sugimoto

2Pt058	Development of topological supramolecular gels in which the three- dimensional mesh-like molecular net itself acts as both a crosslinker and a stopper for the topological structure through physical constraints <u>Gen Kosaka</u> , Takahiko Yasui, Yusuke Taoka, Yuichi Ohya
2Pe059	Loading and release behavior of water-insoluble drugs on activated carbon encapsulated in HSBC gel <a href="Yuma Tanaka">Yuma Tanaka</a> , Toru Hoshi
2Pf060	Ordered Structure of Polyimides Prepared from Novel Necklace-like Lyotropic Liquid Crystalline Polymers as Precursors <u>Takuya Sato</u> ,Ryohei Ishige
2Pe061	Thermal Conductivities of Highly Ordered Smectic Phases in Binary Hetero-Mesogen Copolymers with Varied Spacer Lengths and Main Chains <u>Wakana UCHIYAMA</u> , Yuya ISHIZAKI, Shusaku NAGANO
2Pf062	Microstructured surface formation by patterned photopolymerization: real-time monitoring of contact angle <u>Yasuto Sasaki</u> ,Kotaro Shinmura,Kaito Takahashi,Miho Aizawa,Kyohei Hisano,Atsushi Shishido
2Pe063	Design of poly(ionic liquid)s showing LCST-type phase transition behavior and control of their phase transition temperature using host-guest chemistry <u>Saori Yamaguchi</u> ,Nobuhumi Nakamura,Hiroyuki Ohno,Takahiro Ichikawa
2Pf064	Geometric opening and closing behavior and motility of octahedral structure with fin structure <u>Shunya Kinoshita</u> , Koya Takahashi, Hiroshi Endo
2Pe065	Reversible Switching of Oil Droplet Motion Modes Using pH-Responsive Polymers <u>Shunsuke Nakaya</u> ,Kouichi Asakura,Taisuke Banno

#### C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

2Pf066	Modulation of Selective Molecular Uptake in Complex Coacervates via Tannic Acid Addition Nanami Inamoto, Kouichi Asakura, Taisuke Banno
2Pe067	Orientation and Thermal Conductivity of Side-Chain Smectic Liquid Crystalline Copolymers in Thin-Films <u>Kanna KOBAYASHI</u> ,Yuya ISHIZAKI,Takahiro SEKI,Shusaku NAGANO
2Pf068	Effect of Temperature and pH on CO2 Absorption Capacity of Polyethyleneimine/Ethyloxazoline Hydrolysates <u>Yuta Wakabayashi</u> , Daisuke Takahashi
2Pe069	Design of UCST-type thermo-responsive sol-gel transition polymer with reactive polymer zwitterion <a href="https://doi.org/10.1001/journal.com/">Hideto Ikezawa</a> , Todd Emrick, Takashi Miyata, Akifumi Kawamura

#### D. BIOPOLYMERS AND BIORELATED POLYMERS

2Pe073 Design, synthesis and structure study of unusual amino acid-containing helical peptide bearing a hydrophilic group at its terminus Fumiya Kitagaki, Yoshihito Inai

2Pf074	Synthesis and structure analysis of peptides incorporating chiral chemical species into their terminal positions, and induction of helicity through chiral domino effect <u>Toshikatsu Nagai</u> , Yoshihito Inai
2Pe075	Synthesis of and structure properties of chiral molecular backbone composed of two peptide chains bearing unusual amino acid Kenta Oikawa, Yoshihito Inai
2Pf076	Synthesis of aromatic multi-functional peptide molecules and investigation of their structure features and supramolecular forms <a href="Tsubasa Miyawaki">Tsubasa Miyawaki</a> , Yoshihito Inai
2Pe077	Degradation of amide bonds using histidine-containing compounds <u>Haruka Yokota</u> ,Gaku Hirata,Toshihisa Kimura,Kenta Morita,Tatsuo Maruyama
2Pf078	Development of an electron staining agent for TEM that specifically visualizes cell organelles <a href="mailto:Eiichiro Matsuoka">Eiichiro Matsuoka</a> , Kanoko Ichiki, Kenta Morita, Tatsuo Maruyama
2Pe079	Molecular introduction into the inside of microtubules by tubulin N-terminal modification Shogo Shimizu, Soei Watari, Hiroshi Inaba, Akira Onoda, Akira Kakugo, Kazunori Matsuura
2Pf080	Construction of Tau-derived peptide dimers directed toward microtubule stabilization <u>Yui Hayakawa</u> , Hiroshi Inaba, Akira Kakugo, Kazunori Matsuura
2Pe081	Functionalization of Single Enzyme Encapsuled with Zwitterionic Polymer Hydrogel <u>Yinan LUAN</u> ,Jincai LI,Madoka TAKAI
2Pf082	Evaluation of energy transfer in the fusion of light-harvesting complex 2 and red fluorescent protein <a href="Kazusa Sugimori">Kazusa Sugimori</a> , Sorato Matumoto, Takehisa Dewa, Masaharu Kondo
2Pf084	The preparation of bacterial cellulose films supported with silver nanoparticles <a href="Keigo Yanagino">Keigo Yanagino</a> , Tomoki Okada, Tetsuya Furuike
2Pe085	Preparation of chitosan derivatives grafted with polymer chains <u>Hiroki Nagasawa</u> ,Tetsuya Furuike
2Pf086	Development of Levulinoylated Chitosan-Based Hydrogels <u>Takumi Ishida</u> ,Tetsuya Furuike
2Pe087	Synthesis and Biological Properties of Glycoclustered Cyclodextrins <u>Yuto Imaeda</u> , Yuta Takami, Tetsuya Furuike
2Pf088	Preparation of Chitosan/Chondroitin Sulfate Composite Hydrogel <u>Yutori Katayama</u> ,Tetsuya Furuike
2Pe089	Preparation and functional evaluation of chitosan-coated gellan gum fibers <u>Yuji Tokunaga</u> , Yuhi Aoki, Tetsuya Furuike

## D. BIOPOLYMERS AND BIORELATED POLYMERS

2Pf090 Improvement of Mechanical Properties of Swollen Polysaccharide Composite Films Using Epoxidized Soybean Oil Yui Sakai, Takuya Sagawa, Mineo Hashizume

2Pe091	Preparation of chitosan beads blended with nonionic polysaccharides and investigation as pH-responsive protein carriers Takumi Morita,Shoma Hayashi,Shokyoku Kanaoka,Satoshi Tanimoto
2Pf092	Development of cellulose/alginate hydrogel capsules via ionic liquid processing for pH-responsive drug delivery <a href="Sora Imanishi">Sora Imanishi</a> , Fumio Kurayama, Tatsushi Matsuyama, Junichi Ida
2Pe093	Synthesis and characterization of sodium alginate-graft-PEG for cell preservation <u>Minami Endo</u> , Akinori Takasu, Shuji Yamada
2Pf094	Elucidation of the In Vitro Antioxidant Mechanism of Polysaccharides Using Electron Spin Resonance Spectroscopy Kotaro Nishimaki,Koharu Sasa, <u>Hiroyuki Kono</u>
2Pe095	The activation of glycosyltransferase LARGE by poorly water-soluble polycyclic basic compounds. <u>Haruka Shikii</u> ,Shuji Mizumoto,Mariko Ikeda,Kenta Morita,Tatsuo Maruyama
2Pe097	Effect of oxidation degree in Aged-nanoplastic models on protein corona formation Saul Perez Arana, Naoto Washihira, Mako Kobayashi, Atsushi Hirano, Masaya Yamamoto
2Pf098	Quantum chemical calculation of hydrogen abstraction reaction from DNA by OH radical <u>Takumi Iida</u> ,Susumu Fujiwara,Yoshiteru Yonetani,Tsukasa Aso,Hiroaki Nakamura,Yoshiyuki Hirano,Takao Otsuka,Masanori Hara
Bldg.4, Are	ea4 4301

# Thu. Sep 18

Presentation Time

<a = 10:20~11:00>

<br/><b = 11:00~11:40>

### A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

3Pa001	Synthesis of photoluminescent polymers bearing ketocoumarin moieties <u>Hirotaka Kato</u> ,Taichi Sotani,Hiromitsu Sogawa,Fumio Sanda
3Pb002	Synthesis and characterization of highly soluble conjugated compounds containing pincer-type multinuclear platinum complexes <a href="Mare Kobayashi"><u>Mare Kobayashi</u></a> , Hiromitsu Sogawa, Fumio Sanda
3Pa003	Library Synthesis and Post-Polymerization Modification of Carbon-Chain Polymers Featuring gem-bis Side Chains <u>Taichi Meno</u> ,Tatsuma Aiuchi,Shunsuke Tsuchiya,Keitaro Matsuoka,Kazuki Sada
3Pb004	Development of Novel Amphiphilic Polymers with Controlled Spacing between gem-bis PEG side chains <u>Tatsuma Aiuchi</u> , Taichi Meno, Keitaro Matsuoka, Kazuki Sada
3Pa005	Preparation of Conductive &pai-Conjugated Polymer Thin Films Using Vapor Deposition Polymerization of Heterophanes <u>Yuto Kuroda</u> ,Tomoya Enoki,Takahiro Uno,Masataka Kubo
3Pb006	Simple Preparation of Movable Crosslinked PEO Network using Thiol-Ene Reaction <u>Fumiya Nomura</u> ,Seung Min Hong,Masataka Kubo,Takahiro Uno
3Pa007	Synthesis and Photo Polymerization of Diacetylenes Containing Platinum Complex Moiety <a href="Ryota Shimoda">Ryota Shimoda</a> , Humio Sanda, Hiromitsu Sogawa

3Pb008	Optical Properties and High-Density Excited States of Conjugated Polymers Based on Boron Tropolonate Complexes <u>Hikari Ogoshi</u> ,Shunichiro Ito,Kazuo Tanaka
3Pa009	Solution property of double-stimuli polymer end-functionalized with fluorenyl group <u>Aika Mori</u> ,Kenji Sugiyama
3Pb010	Surface characterization of poly(alkyl methacrylate) copolymers bearing both perfluorobutyl groups and nonaethylene glycol chains <u>Rie Shimano</u> ,Kenji Sugiyama
3Pa011	Surface reconstruction of amphiphilic copolymers containing poly(2-perfluorobutyl ethyl methacrylate) segments under environmental changes <u>Sei Omori</u> ,Kenji Sugiyama
3Pb012	Surface properties of poly (alkyl methacrylate) copolymers containing both perfluorobutyl groups and diethylene glycol chains <u>Yiwen Mao</u> ,Kenji Sugiyama
3Pa013	Controlling Over Helical Domain of Micro Phase Separation in Organic-Inorganic Block Copolymer <u>Towa Shinoda</u> ,Shunseke Morii,Yoshinobu Nakamura,Syuji Fujii,Tomoyasu Hirai
3Pb014	Synthesis and Development of Functions of Cyclic Carbonate-Substituted Polyacetylenes <u>ko watanabe</u> ,Fumio Sanda,Hiromitsu Sogawa
	B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES
3Pa021	A theoretical investigation into the anomalous glass transition temperature of polyurea-phenolic resin composite <u>Fumiyuki Toshimitsu</u> , Yuji Kosugi, Yoshio Furusho
3Pb022	Analysis of Internal Mechanical Damage for CNT-Based Soft Nanocomposites Kenji Urayama,Thanh Tam Mai, <u>Keni Ma</u>
3Pa023	Investigation of the Correlation Between Nanoscale and Macroscale Mechanical Properties in Polymer Alloys via AFM Nanomechanics. Kenta Wakabayashi, Makiko Ito, Xiaobin Liang, Ken Nakajima
3Pb024	Investigation of Multiscale Structures and Relaxation Behavior in Ionic Liquid Composites <u>Hiroaki Nobuoka</u> ,Tobias Schwan,Manfred Wilhelm,Osamu Urakawa,Tadashi Inoue
3Pa025	Investigation of the Reinforcement Mechanism and Viscoelastic Analysis of SWCNT Composite Films <a href="https://doi.org/10.2016/j.com/">Hiroaki Nobuoka</a> , Osamu Urakawa, Tadashi Inoue
3Pb026	Structure Generation of Polymers by Genetic Algorithm <u>Yudai Kashiwa</u> ,Tsuyoshi Koga
3Pa027	Influence of Cellulose Nanofibers on the Crystallization and Mechanical Behavior of Polyvinyl Alcohol Nanocomposites <u>Farjana Shahrin Prova</u> , Akihiko Toda, Ken Taguchi
3Pb028	PP/SEBS blends under elongation studied by atomic force microscopy. <u>Kota Tamura</u> ,Ken Nakajima,Xiaobin Liang
3Pa031	Precise synthesis of macromolecular divinyl crosslinkers: Effects on gelation process and mechanical properties <u>Yuma Murabayashi</u> ,Shohei Ida,Masatoshi Oyama,Keiji Nakajima,Takeshi Ueki,Shokyoku Kanaoka

3Pb032	All-Atom Molecular Dynamics Simulation for Comparing the Mechanical Properties of SBR and Hydrogenated SBR Kazuyoshi Kaneko
3Pa033	Effect of Carbon Black Characteristics on Plasticizer Migration in Rubber Vulcanizates <u>Jun Sawada</u> ,Satoshi Kawasaki,Toshio Tada,Masayuki Yamaguchi
3Pb034	Experimental Investigation of Mixed-Mode Crack Propagation Criterion in Elastomers <u>Tomoki Mishima</u> , Thanh-Tam Mai, katsuhiko Tsunoda, Kenji Urayama
3Pa035	Estimation of shear modulus during the gelation process via dynamic light scattering  Natsumi Kato, Haruki Takarai, Xiang Li, Naoyuki Sakumichi, Takamasa Sakai
3Pb036	Viscoelastic properties of polydimethylsiloxane with reversible cross-links <u>Naoki Yamashita</u> ,Kenji Yamaoka,Nobu Kato,Masanao Kamei,Kentaro Ogura,Minoru Igarashi,Hideo Nakagawa,Yoshinori Takashima
3Pa037	Formation behavior and functional exploration of bisurea supramolecular polymer materials based on cage-shaped silsesquioxanes <u>Jinshiro Takeuchi</u> ,Hiroaki Imoto,Kensuke Naka
3Pb038	Effect of Recombination Behavior of Reversible Cross-Linking Points on Polymer Viscoelasticity <u>Hosei Kinoshita</u> , Yuko Nishimatsu, Kenji Yamaoka, Yoshinori Takashima
	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS
3Pb042	Photophysical Properties of Near-Infrared Up-conversion in Dye- Encapsulated Liposomes Ryosuke Kamimura, Hideki Kawai
3Pa043	Creation of Chiral Amorphous Molecular Materials and Their Circular Dichroism Daiki Arata,Oki Takesita,Yen Fu Teoh,Hideyuki Nakano
3Pb044	Synthesis of DA Conjugated Polymers composed of Propylenedioxythiophene and Various Acceptors and their EC Properties Rika Adachi, Atsushi Aoki
3Pa045	Transparency of wood using plant-derived materials and evaluation of its optical properties <u>Ryota Minakatsu</u> , Norihisa Tanio
3Pb046	Fine pattern formation of polyetherimide utilizing consecutive nucleophilic acyl substitution reaction during developing process. <u>Mizuho Matsuda</u> , Hiroyuki Maekawa, Toshiyuki Oyama
3Pa047	Refractive index and molecular chain packing state of plant-derived transparent polymers <u>Yuya Yoshinari</u> ,Norihisa Tanio
3Pb048	Transparent bulk preparation of plant-derived materials and evaluation of their optical properties <a href="Shogo Horiuchi">Shogo Horiuchi</a> , Norihisa Tanio
3Pa049	Acid-Response Behaviors of Tetraphenylethylene Derivatives Bearing Polymerizable Cyclosiloxane Terminals <u>Atsushi Seki</u> ,Shoya Yamada,Yukinori Kokubo,Ken'ichi Aoki
3Pb050	Photoinduced surface relief formation using bisanthracenes with different connecting groups <u>Rie Momomoto</u> , Yuya Miyoshi, Shu Aoki, Kota Marumoto, Taishi Sonoda, Takashi Ubukata

3Pa051	Improvement in the upconversion quantum efficiency of an alternating
	multilayer structure based on 9,10-bis(4-methylphenyl)anthracene and
	platinum octaethylporphyrin vacuum deposited on an in-plane oriented
	polythiophene film
	Toshiko MIZOKURO, Yoshihiro KIKKAWA, Hirokazu OHSAWA, Kenji
	KOBAYASHI,Kenji KAMADA

3Pb052 Photoexcitation dynamics and photon upconversion characteristics of organic chromophores in stretched poly(vinyl alcohol)

<u>Takeshi Mori</u>,Tomohiro Mori,Takumi Kinoshita,Hitoshi Saomoto

Bldg.4, Area4 Foyer

### C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

3Pa053	Synthesis and Properties of Polymers Controlled Binding Distance between Tetraphenylethene Units <u>Takeru KATO</u> ,Takahiro KAKUTA,Tada-aki YAMAGISHI
3Pb054	Step-π-conjugated polymers (241) Study of energy transfer mechanism using macro-molecular-wire <u>Saori Ichino</u> , Haoxuan GUO, Hiroyuki Aota
3Pa055	Step-π-conjugated polymers (242) Multi-photon harvesting for porphyrin <u>Kanta Kawahara</u> ,Shunta Nakamura,Haoxuan Guo,Hiroyuki Aota
3Pb056	Step-π-conjugated polymers (243) Multi-photon harvesting for perylene <u>Shunta Nakamura</u> ,Haoxuan Guo,Hiroyuki Aota
3Pa057	Step-π-conjugated polymers (244) Study of electron transfer mechanism using macro-molecular-wire <u>Kazuki Takeuchi</u> ,Daisuke Kitayama,Haoxuan Guo,Hiroyuki Aota
3Pb058	Stepping-π-conjugated polymers(245)Controlling the directionality of electron transfer using macromolecular wires <u>Yusuke Otaki</u> ,Daisuke Morinaka,Kota Tanaka,Haoxuan GUO,Hiroyuki Aota
3Pa059	Step-π-conjugated polymers (246) Electron transfer using amphiphilic macromolecular wires <u>Mika Tonoike</u> , Haoxuan Guo, Hiroyuki Aota
3Pb060	Step-π-conjugated polymers (247) Synthesis of macromolecular wires bonded to colloidal metal <u>Soshiro Numata</u> , Haoxuan GUO, Hiroyuki Aota
3Pa061	Step-π-conjugated polymers (248) Study of bonding between colloidal metal and macromolecular-wire Shota Hatamoto, Haoxuan Guo, Hiroyuki Aota
3Pb062	Step-π-conjugated polymers (249) Ultrafast Spectroscopic Insights into Photoinduced Electron Transfer in Macromolecular Wire <u>Daisuke KITAYAMA</u> ,Haoxuan GUO,Hiroyuki AOTA
3Pa063	Influence of Resonance Effects in Acetal Termini of Dissolution Inhibitors on Resist Sensitivity of Chemically Amplified Three-Component Novolac Resists <u>Katsuaki Takashima</u> , Hideo Horibe
3Pb064	Self-aggregation Behavior and Chiroptical Properties of Biaryl Molecules with Chiral Hydrogen-Bonding Moieties <u>Rikako Sugiyama</u> , Junpei Mitsuzuka, Nozomi Sugiura, Takunori Harada, Masaya Moriyama
3Pa065	Synthesis of dialkyloxythiophene-phenyl conjugated polymers with various sidechain lengths and their EC properties

Bldg.4, Area4 4201

#### C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

3Pa067	Encapsulation of poorly water-soluble natural substances into core-shell particles and generation of colloidal sponges Nene Sakata, Yuuka Fukui, Keiji Fujimoto
3Pb068	Preparation and complexation of microparticles by stereocomplexation of sugar-based star-shaped poly (lactic acid) <u>Ayane Kawamura, Tadashi Tsukamoto, Yuji Shibasaki</u>
3Pa069	Influence of synthesis temperature on the interaction between silver nanocrystals and organic molecules <a href="Honoka Mizuguchi">Honoka Mizuguchi</a> , Ryo Iba, Hideyuki Nakanishi
3Pb070	Stereoregular Polymerization of Methyl Methacrylate in the Channel Cavity of Supramolecular γ-Cyclodextrin Structures Shunsuke Kishi, Hajime Shigemitsu, Toshiyuki Kida
3Pa071	Patterning of catalysts via inhomogeneous polymerization <u>Koki Ito</u> ,Kazuto Uchida,Hideyuki Nakanishi
3Pb072	Electrospinning-Based Control of Nanostructures on PTFE Film Surface. <a href="https://doi.org/10.25/2016/10.25/2016/">Chisa Hasegawa</a> , Tadakazu Tsukamoto, Susumu Kawado, Satoshi Fujita, Hiroki Miyajima
3Pa073	Preparation and Application of Supramolecular Cyclodextrin Structures Utilizing Cononsolvency of Water/HFIP Mixtures <u>Haruya Ishida</u> ,Noa fujiwara,Sachikumo Kurosawa,Hajime Shigemitsu,Masahiro Muraoka,Toshiyuki Kida
3Pb074	Detailed Analysis of the Linear Viscoelasticity of Cellulose Nanofiber Dispersions <u>Himari Taniguchi</u> ,Reina Tanaka,Tadashi Inoue,Shinji Sugihara,Yasushi Maeda,Atsushi Matsumoto
3Pa075	Core anisotropy in core-shell nanoparticles and their self-assembly behavior <u>Sumiri Kinoshita</u> , Takumi Mihara, Koki Sano
3Pb076	Development of toughened particle films using supramolecular bonding between particles  Ryota Sakaguchi, Yuma Sasaki, Kazuko Nakazono, Daisuke Suzuki
3Pa077	Optically-controlled gelation based on aggregation of titanium dioxide nanocrystals <u>Yuki Nakai</u> ,Yuki Nagai,Yoichi Kobayashi
3Pb078	Molecular arrangement in composite particles of chiral conjugated polymers <u>Hayato Sakai</u> ,Souta Nakayama,Hiroshi Yamagishi,Soh Kushida,Yohei Yamamoto
3Pa079	Investigation of the Molecular Loading Capacity of Pseudo-Polyrotaxane Nanosheets(PPRNS) <u>Di Liu</u> ,Shuntaro Uenuma,Tomoya Iizuka,Tsuyoshi Takeshita,Kohzo Ito

### D. BIOPOLYMERS AND BIORELATED POLYMERS

3Pb084 Size-dependent biomembrane permeation of phospholipid-mimetic polymers conjugated with hydrophilic model drugs Kazutoshi Yokoo, Tatsuro Goda

3Pa085	Development of polymer biodistribution prediction model using experiment-oriented materials informatics  Mayu Masuda, Kohei Sano, Noa Kamatani, Haruka Tobita, Toshihide Yamasaki, Takahiro Mukai, Yasuhiko Igarashi, Daniel Citterio, Yuya Oaki, Yuki Hiruta
3Pb086	Size-tunable polymeric nanoruler for targeting of malignant brain tumors <u>Yukine Ishibashi</u> ,Mitsuru Naito,Yusuke Watanuki,Masaru Cho,Naoki Yamada,Kanjiro Miyata
3Pa087	Naturally Occurring DNA-Based Hydrogels Combining Controlled Drug Release and Bioadhesion for Medical Applications <u>Shunsuke Fuwa</u> ,Arisa Fukatsu,Kenji Okada,Takeaki Ishizawa,Masahide Takahashi
3Pb088	Preparation of hyaluronan-antigen protein conjugates for antigenic modification of cancer cells <u>Momona Ota</u> ,Shinichi Mochizuki
3Pa089	Cell manipulation via localized heating of mitochondria based on near-infrared photothermal polymer micelles <u>Tomoki Iwashita</u> ,Yu Ochiai,Hiroki Yamaguchi,Yutaro Matsushita,Masao Kamimura

Bldg.4, Area4 4202

	D. BIOPOLYMERS AND BIORELATED POLYMERS
3Pb090	Non-invasive remote manipulation of collective cell migration based on PEGylated magnetic nanoparticles <u>Hirotaka Yamaguchi</u> ,Yukino Nishikata,Kazuki Hasegawa,Ryuto Yamanaka,Masao Kamimura
3Pa091	Remote manipulation of mechano-sensitive channels using cell membrane anchored polymer-modified magnetic nanoparticles <a href="Yukino Nishikata">Yukino Nishikata</a> , Yu Ochiai, Ryuto Yamanaka, Masakazu Kubota, Masao Kamimura
3Pb092	Manipulation of cell migration behavior based on near-infrared responsive photothermal polymeric micelles <u>Nana Watabe</u> , Tomoki Iwashita, Yu Ochiai, Masao Kamimura
3Pa093	Intracellular delivery of substances using near-infrared light responsive photothermal polymer micelles <u>Ken Tsuchihashi</u> ,Yuto Chiba,Tomoki Iwashita,Masao Kamimura
3Pb094	Development of a Synthetic Polymer Library for Therapeutic Neutralization of Bacteria Toxins <u>Masayuki Ota,</u> Masanori Nagao,Hikaru Matsumoto,Yoshiko Miura,Takeshi Yamamoto,Yoshitoshi Ogura
3Pa095	Preparation of 4-armed star-shaped phospholipid polymers for poorly water-soluble drug carrier <u>Riku Hirasawa</u> ,Yuta Yoshizaki,Tomohiro Konno
3Pb096	Potential of a novel extracellular vesicle-based therapy independent of genetic mutations in cancer <u>Hikaru Hatano</u> , Hiyori Iitsuka, Kiyoshi Sato, Hiroyoshi Kawakami
3Pa097	Development of disulfide-introduced peptide nanofibers for an antigen delivery system <u>Kotone Minato</u> ,Kazuya Matsuo,Tomonori Waku,Akio Kobori
3Рь098	Evaluation of intracellular delivery and cell migration inhibition effects of VHH antibody using cell membrane permeable carrier cpPG Ryunosuke Suzuki, Toshihisa Mizuno

3Pa099	Fabrication and Characterization of Disc-shaped Carriers for Drug Delivery Using Solvent Swelling and Magnetic Stirring Processes Yuma Sudo, Hayato Yokose, Sadako Hukuda, Yosuke Okamura
3Pb100	Evaluation of sulfobetaine polymer conjugates for cancer cryotherapy <u>Takuto Toriumi</u> , Nobuyuki Morimoto
3Pa101	Intracellular Delivery of Cargo Proteins into Cancer Cells via Encapsulation in OLE-ZIP Protein Capsules, Displaying Anti-HER2 Antibodies
	Ryuki Hosoda,Kosuke Takahashi,Toshihisa Mizuno
3Pb102	Cytoplasmic delivery of anticancer active peptides using peptide nanofibers. <u>Seigo Aoki</u> ,Kazuya Matsuo,Tomonori Waku,Akio Kobori
3Pa103	Synthesis of Cisplatin-loaded Poly(NIPAm-Carboxylated NIPAm) Gel Particles for Cancer Chemotherapy <u>Yoshiki Tajima</u> ,Yukiya Kitayama,Atsushi Harada
3Pb104	Rational design and preparation of carrier-free nanostructures densely functionalized with nucleic acid therapeutics and a small molecule drugs. <u>Mioto Hashimoto</u> ,Sota Wada,Masao Kamimura,Yoshitsugu Akiyama
3Pa105	Enabling Cytoplasmic Delivery of Protein Drugs via Nanofiber-Induced Endosomal Membrane Destabilization <u>Tomoki Matsuda</u> ,Kazuya Matsuo,Tomonori Waku,Akio Kobori
D11 4 4	4.4001

Bldg.4, Area4 4301 Presentation Time <c = 13:20~14:00> <d = 14:00~14:40>

### A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

3Pc001Preparation of Giant Molecules with Polyhedral Oligomeric Silsesquioxane and Evaluation of Its Molecular Aggregation State Yasumasa Miyoshi, Yoshinobu Nakamura, Syuji Fujii, Tomoyasu Hirai3Pd002Preparation of Polymer with Maleimide Derivative Side Chains and Development for Circularly Polarized Luminescence Materials Kai Terami, Yoshinobu Nakamura, Syuji Fujii, Tomoyasu Hirai3Pc003Detailed Analysis of the Luminescence Mechanism of π-Conjugated 12-vertex ortho-Carborane Takumi Yanagihara, Kazuo Tanaka3Pd004Synthesis of Thiophene-modified Polymers Based on Quinacridone Framework Ren Gotou, Atsushi Kimoto3Pc005Synthesis of Poly(2,6-anthraquinone) Using Soluble Aromatic Imine Precursors Misaki Morishita, Atsushi Kimoto3Pd006Synthesis of new aggregation-inhibiting POSS polymers by molecular design with urea or urethane bonds in the side chains Cashew Nagashima, Hiroaki Imoto, Kensuke Naka3Pc007Synthesis, structures, and properties of polyrotaxanes with helical π-conjugated polymers as an axile Fuuka Sugimoto, Isao Yamaguchi3Pd008Synthesis and Properties of Sequence-regulated Glycopolymer using ADMET Polymerization		
Development for Circularly Polarized Luminescence Materials Kai Terami, Yoshinobu Nakamura, Syuji Fujii, Tomoyasu Hirai  3Pc003 Detailed Analysis of the Luminescence Mechanism of π-Conjugated 12- vertex ortho-Carborane Takumi Yanagihara, Kazuo Tanaka  3Pd004 Synthesis of Thiophene-modified Polymers Based on Quinacridone Framework Ren Gotou, Atsushi Kimoto  3Pc005 Synthesis of Poly(2,6-anthraquinone) Using Soluble Aromatic Imine Precursors Misaki Morishita, Atsushi Kimoto  3Pd006 Synthesis of new aggregation-inhibiting POSS polymers by molecular design with urea or urethane bonds in the side chains Cashew Nagashima, Hiroaki Imoto, Kensuke Naka  3Pc007 Synthesis, structures, and properties of polyrotaxanes with helical π- conjugated polymers as an axile Fuuka Sugimoto, Isao Yamaguchi  3Pd008 Synthesis and Properties of Sequence-regulated Glycopolymer using	3Pc001	
vertex ortho-Carborane Takumi Yanagihara, Kazuo Tanaka  3Pd004 Synthesis of Thiophene-modified Polymers Based on Quinacridone Framework Ren Gotou, Atsushi Kimoto  3Pc005 Synthesis of Poly(2,6-anthraquinone) Using Soluble Aromatic Imine Precursors Misaki Morishita, Atsushi Kimoto  3Pd006 Synthesis of new aggregation-inhibiting POSS polymers by molecular design with urea or urethane bonds in the side chains Cashew Nagashima, Hiroaki Imoto, Kensuke Naka  3Pc007 Synthesis, structures, and properties of polyrotaxanes with helical π- conjugated polymers as an axile Fuuka Sugimoto, Isao Yamaguchi  3Pd008 Synthesis and Properties of Sequence-regulated Glycopolymer using	3Pd002	Development for Circularly Polarized Luminescence Materials
Framework Ren Gotou, Atsushi Kimoto  3Pc005 Synthesis of Poly(2,6-anthraquinone) Using Soluble Aromatic Imine Precursors Misaki Morishita, Atsushi Kimoto  3Pd006 Synthesis of new aggregation-inhibiting POSS polymers by molecular design with urea or urethane bonds in the side chains Cashew Nagashima, Hiroaki Imoto, Kensuke Naka  3Pc007 Synthesis, structures, and properties of polyrotaxanes with helical π-conjugated polymers as an axile Fuuka Sugimoto, Isao Yamaguchi  3Pd008 Synthesis and Properties of Sequence-regulated Glycopolymer using	3Pc003	vertex ortho-Carborane
Precursors  Misaki Morishita, Atsushi Kimoto  3Pd006 Synthesis of new aggregation-inhibiting POSS polymers by molecular design with urea or urethane bonds in the side chains  Cashew Nagashima, Hiroaki Imoto, Kensuke Naka  3Pc007 Synthesis, structures, and properties of polyrotaxanes with helical π-conjugated polymers as an axile  Fuuka Sugimoto, Isao Yamaguchi  3Pd008 Synthesis and Properties of Sequence-regulated Glycopolymer using	3Pd004	Framework
design with urea or urethane bonds in the side chains <u>Cashew Nagashima</u> , Hiroaki Imoto, Kensuke Naka  3Pc007 Synthesis, structures, and properties of polyrotaxanes with helical π- conjugated polymers as an axile <u>Fuuka Sugimoto</u> , Isao Yamaguchi  3Pd008 Synthesis and Properties of Sequence-regulated Glycopolymer using	3Pc005	Precursors
conjugated polymers as an axile Fuuka Sugimoto, Isao Yamaguchi  3Pd008 Synthesis and Properties of Sequence-regulated Glycopolymer using	3Pd006	design with urea or urethane bonds in the side chains
	3Pc007	conjugated polymers as an axile
	3Pd008	

	<u>Suzuka Oda,</u> Mako Yunbe,Noriyuki Nakajima,Masahiro Hamada,Yasuhito Koyama
3Pc009	Efficient Catenation Enabled by a High-Density Self-Assembled Toroid Environment <u>Daiki Tagooka</u> , Hiroki Itabashi, Sougata Datta, Hiroki Hanayama, Shiki Yagai
3Pd010	Synthesis of Helically π-Stacked Poly(quinolylene-2,3-methylene)s with Bearing Perylene diimide at the Chain Ends <u>Tomoki Uchida</u> ,Naoya Kanbayashi,Taka-aki Okamura,Kiyotaka Onitsuka
3Pc011	Synthesis and functionalization of macrocyclic compound composed of aspartic acid-containing peptide and oligo ethylene glycol <u>Daisuke Okazaki</u> , Kousuke Tsuchiya, Takamasa Sakai
3Pd012	Synthesis of Block Copolymers of Poly(propylene carbonate) and Poly(methyl methacrylate) and Their Application to Polymer Blends Manami Toi,Koji Nakano,Mai Nakamura
3Pc013	Tröger's base-forming reaction of diazacyclooctane derivatives bearing a N-carboxymethyl group and application to ladder polymers Kenta Hiraki, Fumitaka Ishiwari, Akinori Saeki
3Pc015	Synthesis of Polymer-Type Benzoxazines via Copolymerization of Aminophenols and Properties of Their Thermosets <u>Kazunari Kuroda</u> , Takehiro Kawauchi
3Pd016	Synthesis and Properties of Polybenzoxazines Containing Alicyclic Structures <u>Keiyo Chou</u> ,Noe Tokukawa,takehiro Kawauchi
3Pc017	Optimization of Copolymerization Conditions for Novel Copolymers Using Existing Polymerization Data and Physical Information Hiromu Yamada, Shogo Takasuka, Shunto Oikawa, Yosuke Harashima, Tomoaki Takayama, Aniruddha Nag, Araki Wakiuchi, Tsuyoshi Ando, Tetsunori Sugawara, Miho Hatanaka, Tomoyuki Miyao, Takamitsu Matsubara, Yu-ya Ohnishi, Hiroharu Ajiro, Mikiya Fujii
3Pd018	Synthesis of polyamide-imide/silica gel hybrids using in-situ polymerization method <u>Takeru Iwamura</u> ,Shion Nonaka,Keisuke Urushibata,Kazuhide Matsumura
3Pc019	Silyl ether-modifed polyalkylene gylcols having high viscosity index <u>Fuyuki Aida</u> ,Kazuo Tagawa
	B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES
3Pd022	Relationship between Microcluster Structure and Macroscopic Mechanical Response of polyethyleneglycol/polydimethylacrylamide Hydrogels Utilizing Different Network Formation Mechanisms  Masato Ishimoto, Tomoki Yasui, Masahiro Yoshida, Takayuki Kurokawa
3Pc023	Self-growing of DN gels with Glucose Oxidase in the Presence of Oxygen <u>Tianze Shao</u> , Kotaro Hata, Masahiro Yoshida, Zhijian Wang, Tasuku Nakajima, Jianping Gong
3Pd024	Fabrication of Artificial Skin Exhibiting a J-Shaped Mechanical Curve Using Particle-DN Gels <u>Yutaro Ueno</u> ,Tomoki Yasui,Takayuki Nonoyama
3Pc025	Effects of temperature and solvent composition on physicochemical properties during preparation of cellulose hydrogels using Ionic Liquid / Dimethyl sulfoxide solution <u>Kazumi Moriyasu</u> , Kodai Kikuchi, Tatsushi Matsuyama, Akio Shimizu, Junichi Ida

3Pd026	Preparation of topological gels with temperature-responsive elastic modulus change using molecular nets of poly(N-isopropylacrylamide). <a href="Yamato Fujita">Yamato Fujita</a> , Kenichiro Mizuguchi, Yusuke Taoka, Yuichi Ohya
3Pc027	Investigation of a drying-reswelling process using polyhydric alcohols for preserving the microstructure of bacterial cellulose gels <u>Mirei Kobayashi</u> ,Toru Hoshi
3Pd028	Mechanical Properties of Gels with Different Dynamic Cross-links and Entanglement-Cross-links. <u>Saki Hatanaka</u> ,Takashi Miyata
3Pc029	Evaluation of soft material texture using nonlinear viscoelasticity <u>Rika Takeda</u> ,Koki Ogata,Kyoichi Tsurusaki
3Pd030	Antibacterial Activity and Properties of PVA/Chitosan Films Risei WADA,Jun SAWAI,Hidenobu SHIMIZU
3Pc031	Study on polymerization methods to control the distribution of charge groups within polymer particles and the mechanical properties of particle films  Yusuke Shinozaki, Yuma Sasaki, Haruka Minato, Daisuke Suzuki
3Pd032	Theoretical model for predicting mechanical properties of self-growing gel <u>Tatsunari Masumi</u> , Tsutomu Indei
3Pc033	Synthesis of amide phosphate-type thermal latent curing agents and their application to thermal curing of epoxy resins <a href="Yushiro Yamauchi">Yushiro Yamauchi</a> , Daisuke Aoki, Koji Arimitsu
3Pd034	Preparation for the regenerated samples in the freeze/thaw polyacrylonitrile gels and the elastic properties <u>Hiroki Asada</u> , Yutaka Tanaka
3Pc035	Controlling nanoparticle dynamics in crowded gel environments <u>Keita Namba</u> , Yuka Wakayama, Mitsuhiro Shibayama, Takuma Kureha
3Pd036	Evaluation of the Hydration State in Calcium Alginate Hydrogels for Understanding the Water Holding Ability <u>Akinori Iwashiro</u> , Mizuki Yamamoto, Takumi Bessho, Shinichiro Kuroki, Keiichiro Shiraga
3Pc037	Synthesis of Monodisperse Star Polymers toward Construction of a Polymer Network without Strand Length Distribution <a href="Shunya Sugawara">Shunya Sugawara</a> , Yamato Watanabe, Shotaro Hayashi, Naoko Yoshie, Shintaro Nakagawa
3Pd038	Structural development of Ca <sup>2+</sup> -pectin gel beads prepared from pectin chains with various charge numbers <a href="Yuji Jinbo">Yuji Jinbo</a> , Sumire Kouhara
	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS
3Pd042	Hydrophilic carbazole-based dendrimers for light-emitting electrochemical cells <u>Yuki Akanuma</u> , Alamelu , Kosuke Anraku, Keiko Yamaoka, Ruben D.  Costa, Ken Albrecht
3Pc043	Elastomers that enhance fluorescent intensity upon CO2 exposure <u>Takumi Hayashi</u> ,Kei Hashimoto,Shoichi Kutsumizu,Yohei Miwa
3Pd044	Nonlinear optical response of dye-doped liquid crystals in the polymer wall structure designed by photopolymerization <u>Junki Yokota</u> ,Miho Aizawa,Kyohei Hisano,Shoichi Kubo,Atsushi Shishido
3Pc045	Synthesis and properties of novel chemically amplified dendritic resists: Improvement of resist properties through terminal modification

	Shunta Hirado, Haruto Goto, Taketo Matsumaru, Takeo Watanabe, Shinji Yamakawa, Humihiro Kawagoe, Atsushi Seki, Ken'ichi Aoki
3Pd046	Water-solubilization of photobase generators using cyclodextrin and their applications Chiharu Fukayama, Kazuya Koizumi, Daisuke Aoki, Koji Arimitsu
3Pc047	Anionic UV Curing of Epoxy/Thiol-Based Black Resin at Room Temperature and Its Application to Adhesion <u>Misuzu Manaka</u> ,Yuya Tanaka,Daisuke Aoki,Koji Arimitsu
3Pd048	Development of one component adhesives composed of polysilane derivatives and evaluation of their adhesive properties on polypropylene substrates Kohei Ota, Daisuke Aoki, Koji Arimitsu
3Pc049	Photoinduced molecular reorientation and absorption modulation of dyedoped liquid crystals toward near-infrared light dimming Yuya Nakata, Junki Yokota, Miho Aizawa, Kyohei Hisano, Soichi Yokoyama, Yutaka Ie, Atsushi Shishido
3Pd050	Realizing light-matter strong coupling with high organic dye concentrated WGM resonator Shoma Hino,Soh Kushida,Takuji Hatakeyama,Yohei Yamamoto
3Pc051	Influence of the chemical structures of diacetylenediamides on the thermal activation of photopolymerization <u>Yusei Nanri</u> ,Saya Kato,Yuya Kondo,Nobuyuki Tamaoki,Fumihiro Kawagoe,Atsushi Seki,Ken'ichi Aoki
3Pd052	Synthesis and stereocomplex of a novel polylactide with fluorescent initiator based on benzoxazine derivatives <u>Mitsuki Oka</u> ,Nalinthip CHANTHASET,Worawat Wattanathana,Hiroharu Ajiro

Bldg.4, Area4 Foyer

### C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

3Pc053	Synthesis and properties of novel chemically amplified dendritic resists: Terminal binding of a nonionic photoacid generator on dendrimer surfaces <u>Haruto Goto</u> ,Shunta Hirado,Taketo Matsumaru,Takeo Watanabe,Shinji Yamakawa,Fumihiro Kawagoe,Atsushi Seki,Ken'ichi Aoki
3Pc055	Synthesis of a reactive polymer with selective adsorption properties for rare metals <u>Hiroki Akiba</u> , Daisuke Aoki, Tatsuo Taniguchi, Takeshi Ogata, Hirokazu Narita
3Pd056	Investigation of a separation method for different particles with same size and zeta potential: Application of non-additive Asakura-Oosawa theory <a href="Ikuma Ogasawara">Ikuma Ogasawara</a> , Ken-ichi Amano
3Pc057	Adsorption and desorption properties of Cr(VI) ions on porous silica beads modified with amine-besd polymers.

3Pd060	Effects of Counter Anions on Water Vapor Barrier Properties of Chitosan Salt Membranes <u>Airi Kobayashi</u> ,Ryuhei Nagashima,Rei Onishi,Kosai Furukawa,Yuka Uchida,Katsuki Yajima,Kazukiyo Nagai
3Pc061	Relative Pressure Dependence of Water Vapor Sorption Properties in Chitosan Salt Membranes Kousai Furukawa,Yuka Uchida,Ryuhei Nagashima,Rei Onishi,Airi Kobayashi, <u>Katsuki Yajima</u> ,Kazukiyo Nagai
3Pd062	Temperature Dependence of Dissolved Oxygen Permeability in Compostable Poly(lactic acid) Hybrid Membranes <u>Masahiro Yoneda</u> ,Toranosuke Saito,Rei Onishi,Kosai Furukawa,Kazukiyo Nagai
3Pc063	Gas Permeability and Selectivity in ABA-type Triblock Copolymer Membranes Synthesized from Polyimide and HEMA Haruto Suzuki,Ryota Nambu,Kento Iwama,Akihiro Yoshida, <u>Kaede Okuma</u> ,Kyohei Maki,Kazukiyo Nagai
3Pd064	Synthesis of One-handed Helical Poly(diphenylacetylene)s Bearing Dinuclear Rhodium Complex using Bio-Based Chiral Oils and Their Application to Asymmetric Catalysts  Yanchen Hong, Yuki Nishikawa, Daisuke Hirose, Katsuhiro Maeda
3Pc065	Effects of Ester Additives on Dissolved Carbon Dioxide Permeability in Poly(lactic acid) Membranes <u>Toranosuke Saito</u> ,Masahiro Yoneda,Rei Onishi,Kosai Furukawa,Kazukiyo Nagai
Bldg.4, Ar	ea4 4201
	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS
3Pd066	Synthesis, properties, and functionalities of polyfluorenes with phenylenediamine units. <u>Masahiro Tomita</u> ,Isao Yamaguchi
3Pc067	Preparation of Composite Membranes of Poly(lactic acid) and Compostable Compounds

# Rei Onishi, Kosai Furukawa, Kazukiyo Nagai 3Pd068 Synthesis of novel adsorbent carrying polymer graft chains for selective adsorption of heavy rare earth elements Hiromasa Okawara, Kohei Watanabe, Azumi Akiyama, Daisuke Aoki, Tatsuo Taniguchi, Tsuyoshi Ogata, Kazuhiro Narita 3Pc069 Water vapor sorption properties of chitosan salt/amino acid hybrid membranes Kosai Furukawa, Yuka Uchida, Airi Kobayashi, Kazukiyo Nagai 3Pd070 Gas Separation Performance of Zeolite/Pebax Composite Membranes Modified under Magnetic Field Chenyi Zhang, Hiroyoshi Kawakami, Masafumi Yamato 3Pc071 Water Vapor Barrier Properties of Chitosan Salt/Starch Blend Membranes Ryuhei Nagashima, Rei Onishi, Airi Kobayashi, Kazukiyo Nagai 3Pd072 Investigation of nanosheets-composite PVDF crosslinked membranes for seawater desalination: Membrane morphophology depending on the nanosheet-composite ratio ZHAOJUN FAN, Akimitsu Ichimori, Takeru Nitta, Shinobu Uemura 3Pc073 Design of a Resin Catalyst for Selective Epoxidation of Structurally Diverse Alkenes Bearing Ionic Functional Groups

Yusuke Kuroda, Yusei Fujii, Kiyosei Takasu

3Pd074	Structural Stabilization of Vertically Aligned Nanocylinder Thin Films via Charge-Transfer Crosslinking between Stilbene and Fumarate and Their Application in Permeable Membranes <u>Fumika Ota</u> ,Sayaka Taie,Sadayuki Asaoka
3Pc075	Selective adsorption of indole by molecular imprinting polymers encapsulated hollow-type spherical bacterial cellulose gels <a href="Souta Yamaguchi">Souta Yamaguchi</a> , Toru Hoshi
3Pd076	Development of Enzymatic Reaction Gels <u>Yoshiyuki Sato</u> ,Tomoki Yasui,Takuya Nishimura,Yoshinori Katsuyama,Takayuki Kurokawa
3Pc077	Creation of energy conversion and substance transport systems with supramolecular materials self-assembled by molecular recognition Yilin Cao,Xue Li,Yuichiro Kobayashi,Akira Harada, <u>Hiroyasu Yamaguchi</u>
3Pd078	Immobilization of OAA1 Lectin on Cellulose Filter Paper and Optimization of Nonspecific Adsorption Suppression for Blood microRNA Diagnostics <u>Ai Miyagi</u> , Tadashi Tsukamoto, Yuji Shibasaki, Yoshihiro Taguchi
3Pc079	Investigation on providing molecular recognition ability to a polypeptide gel by dynamic exchange of its side chains in the presence of a target molecule
	Yoshiki Omata, Hiroyuki Maekawa, Toshiyuki Oyama
3Pd080	Photosensitized Reduction in Vertically Aligned Nanocylinder Thin Films with a High-Density Metal Complex Assembly at Phase-Separated Interfaces
	<u>Hiroya Oeda</u> ,Kazuki Fukata,Sadayuki Asaoka
3Pc081	Theoretical Design of High-Efficiency CO <sub>2</sub> Separation Polyimide Membranes Using a Hierarchical Generative Model <u>Koshiro Miyatake</u> , Hayato Higuchi, Masaya Miyagawa, Hiromitsu Takaba
	D. BIOPOLYMERS AND BIORELATED POLYMERS
3Pd084	Synthesis and O <sub>2</sub> Binding Ability of Universal Red Blood Cells Covered with PEG to Mask Blood Type Antigens <u>Yuri Ishibashi</u> ,Mayuka Fujita,Teruyuki Komatsu
3Pc085	Controlled release of boronic acid derivatives in response to pH and reactive oxygen species with catechol-functionalized polymers.  Ryosuke Nakatsukasa, Yuta Yoshizaki, Tomohiro Konno
3Pd086	Design of phospholipid polymer nanomaterials for deep tissue penetration and their evaluation using three-dimensional cell culture models <u>Yo Tanaka</u> ,Yuta Yoshizaki,Tomohiro Konno
3Pc087	Synthesis of Anti-inflammatory Drug-Conjugated poly(L-lysine) derivatives and evaluation of their penetration behaviors into platelets <u>Takashi Ohara</u> ,Haruka Kitai,Rina Yokoi,Takuya Kotani,Takayasu Suzuka,Tohru Takeuchi,Sachiro Kakinoki
3Pd088	Synthesis of photocleavable antineoplastic drug-amphiphilic polymer conjugates and evaluation of their interaction with platelets <a href="Chisato Onoe">Chisato Onoe</a> , Tsuyoshi Doko, Sachiro Kakinoki
3Pc089	Silica-Enhanced Polyion Complex Nanogels for Tough Injectable Hydrogels in Biomedical Applications <u>Yuta Koda</u> ,Shou Sakaue,Yukio Nagasaki

Bldg.4, Area4 4202

3Pd090	Nucleic acid delivery to cells by polymeric micelles coated with polysaccharides by polyion complex formation <u>Yuichi Kuwano</u> , Yusuke Taoka, Akira Asai, Yuichi Ohya
3Pc091	Study on spacer length of transporter recognition polymers Naoki Yamada, Kanjiro Miyata
3Pd092	Intranasal powder formulation for efficient drug delivery from nose to brain <u>Daisuke Inoue</u> , Yoshihiro Seto, Hideto To
3Pc095	Acute blood response to peptide-modified surface of freeze-dried vascular graft <u>Yuta Fujimaru</u> ,Yuji Yasui,Sachiro Kakinoki,Yasuhiko Iwasaki,Tetsuji Yamaoka,Atsushi Mahara
3Pd096	Simple modification of antibacterial polymers on fibers and the antibacterial properties <u>Riku Suzuki</u> , Akihiro Saito, Masato Mutsuga, Aika Yamawaki-Ogata, Yuji Narita, Yohei Kotsuchibashi
3Pc097	Biomaterial fabrication by Langmuir-Blodgett technique using block copolymer <u>Yuta Nakao</u> ,Masaru Tanaka,Daiki Murakami
3Pd098	Extracellular Matrix Hydrogel derived from Decellularized Cartilage <u>Mia Morimoto</u> ,Chisato Oishi,Sachiro Kakinoki,Takahiko Nakaoki,Atushi Mahara
3Pc099	Quantification of biomarkers using latex agglutination and image analysis <u>Atsuhiro Yamaguchi</u> ,Kohei Toda,Keitaro Sou,Shinji Takeoka
3Pd100	Modification of cationic copolymers on artificial blood vessels by an electrostatic interaction and the antibacterial properties <u>Takato Miyashta</u> , Akihiro Saito, Masato Mutsuga, Aika Yamawaki- Ogata, Yuji Narita, Yohei Kotsuchibashi
3Pc101	Structural and physical properties of supramolecular structure formed by fluorescent labeled polyethylene glycol. <u>Sara Yano</u> , Kinari Saitoh, Takahiko Nakaoki, Atsushi Mahara
3Pd102	Design of Apoptotic Cell Membrane-Mimicking Polymer-Antibody Complexes <u>Taiki Goto</u> ,kosuke Sato,Ahmed Nabil,Mitsuhiro Ebara
3Pc103	In Situ Detection of Potassium Ion Secretion from Mammalian Cells Using a fluorescent Potassium Ion Sensor Fibermats <u>Azumi Sako</u> ,Toshihisa Mizuno
3Pd104	Development of temperature-responsive injectable polymer forming covalent cross-linked hydrogel upon mixing with blood <u>Hiromi Goto</u> , Yuki Miyaji, Yusuke Taoka, Yuichi Ohya
3Pc105	Selective label-free separation technology for tumor cells using PMEA derivatives <u>Kaito Hatate</u> ,Shingo Kobayashi,Masaru Tanaka
3Pd106	Synthesis and Characterization of Gelatin-conjugated Polyester Bioelastomers <u>Yuki Okubo</u> ,Tatsuya Kawakubo,Sachiro Kakinoki