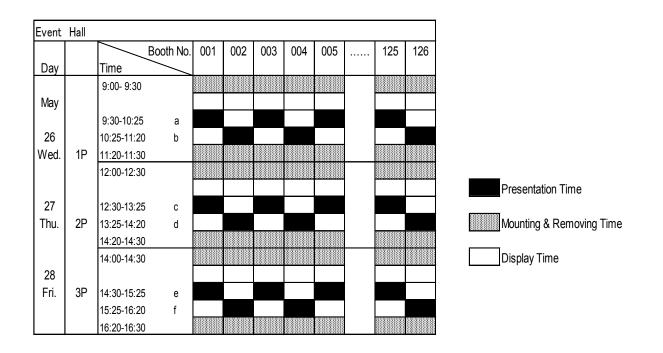
Room P



Wed. May 26

Poster1Pab(Remo) Presentation Time <a = 9:30~10:25> <b = 10:25~11:20>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

1Pa001	Synthesis of threonine-based zwitterionic copolymers and polyplex formation <u>Yurika TANI</u> ,Yonenuma Ryo,Hideharu MORI
1Pb002	Synthesis and luminescence behavior of sulfide/sulfonium-containing aggregation- induced emission block copolymers <u>Shotaro NOBE</u> ,Masaki FURUKAWA,Hideharu MORI
1Pa003	Synthesis of diphenylalanine-based zwitterionic block copolymers by RAFT polymerization and formation of tubular and fractal structures by self-assembly <u>Ryo YONENUMA</u> ,Hideharu MORI
1Pb004	Synthesis and higher-order structure control of platinum-containing optically active polymers utilizing phosphine ligands <u>Takashi Horiuchi</u> ,Soya Makino,Natsuhiro Sano,Hiromitsu Sogawa,Fumio Sanda
1Pa005	Synthesis of metal-containing conjugated polymers with various conjugation lengths: Structure control utilizing optically active diphosphine ligands <u>Ryo Aoki</u> ,Souya Makino,Natsuhiro Sano,Hiromitsu Sogawa,Fumio Sanda
1Pb006	Synthesis of bipyridine-containing conjugated polymers bearing optically active amide groups, and control of the higher order structures utilizing metal-coordination <u>Taichi Sotani</u> ,Mai Otoba,Hiromitsu Sogawa,Fumio Sanda
1Pa007	Synthesis and metal coordination of polyesters bearing bipyridine ligands <u>Yousuke Fujiwara</u> ,Taichi Sotani,Hiromitsu Sogawa,Fumio Sanda
1Pb008	Synthesis of Mechanically-linked Cyclic Polymers using Exchange Reactions of Bis(hindered amino)disulfide linkages <u>Rikito Takashima</u> ,Daisuke Aoki,Hideyuki Otsuka

1Pa009	Synthesis and Evaluation of Solid-State Near-Infrared Emissive Conjugated Polymers based on Azobenzene-Boron Complexes
	Masashi Nakamura,Masayuki Gon,Kazuo Tanaka
1Pb010	Synthesis of Near-Infrared Emissive Boron Complexes and their Molecular Design Focusing on the Frontier Molecular Orbitals of Nitrogen-Containing Aromatic Heterocycles
	<u>Hiromasa Takahashi</u> ,Shunichiro Ito,Kazuo Tanaka
1Pa011	Construction and Luminescent Properties of π-Conjugated Systems Using Bismuth Complexes with ONO Ligands <u>Kazuya Tanimura</u> ,Masayuki Gon,Kazuo Tanaka
1Pb012	Development of Solid-State Luminescent Conjugated Polymers Based on Modulation of Primary Structures of Boron Diiminate Complexes <u>Shunichiro ITO</u> ,Miyako HASHIZUME,Kazuo TANAKA,Yoshiki CHUJO
1Pa013	Inclusion complex formation of helical syndiotactic PMMA with polycyclic aromatic hydrocarbons in toluene <u>Tomohiro Ueno,</u> Kouyuu Fumoto,Takehiro Kawauchi
1Pb014	Synthesis and Photoisomerization Behavior of Chiral Platinum Complexes Bearing Azobenzene Moieties <u>Kohei Iwata</u> ,Shinichi Iba,Hiromitsu Sogawa,Fumio Sanda
1Pa015	Amino-acid-derived chiral 1,3,5-tri(benzimidazolyl)benzene derivatives: Synthesis and self-assembling behavior <u>Takato Mizukoshi</u> ,Sota Kurokawa,Hiromitsu Sogawa,Humio Sanda
1Pb016	Synthesis and Physical Properties of Aryl- <i>o</i> -Carborane Derivatives with Intramolecular Interaction Sites <u>Kazuhiro Yuhara,</u> Junki Ochi,Kazuo Tanaka
1Pa017	Fabrication of higher-order gold nanostructure using dithiol-functionalized MOF <u>Ikki Matsuda</u> ,Takashi Kitao,Takashi Uemura
1Pb018	Synthesis of 18/24-membered Binary Crownether Compound and Its Self-aggregation Behavior <u>Kohei KITAMOTO</u> ,Kenjiro ONIMURA,Kazuhiro YAMABUKI
1Pa019	Synthesis of supramolecular sulfur polymers via hydrogen bonding of 2-ureido-4(1H)- pyrimidinones Yuki Yamagishi,Hiroyasu Yamaguchi,Yuichiro Kobayashi
1Pb020	Synthesis and characterization of anthracene derivatives with self-assembling capability <u>Tetsuhiro Ohta</u> ,Syumpei Yonezawa,Tuyoshi Kawai,Takuya Nakashima
	B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES
1Pa021	Relationship between a1-a2 Phase Transition and Reorganization of Isotactic Polypropylene Crystals : Influence of Initial Higher-Order Structure on the Phase Transition <u>Misako Inagaki</u> ,Takahiro Miyoshi,Koji Nozaki
1Pb022	Higher-order Structure of Linear Low-molecular-weight Molecule/Bottlebrush Polymer Blends: N-alkane/Poly(a-olefin) Blends

- Seiya Honjyoh,<u>Koji Nozaki</u>,Yousuke Ookame,Tatsuya Kokumai 1Pa023 A study of the thermal behavior of styrene acrylonitrile copolymer by low frequency
- Raman spectroscopy. <u>Hiromasa Yamamoto</u>,Harumi Sato 1Pb024 Intermolecular hydrogen bondings of poly(butylene succinate) studied by infrared
- 1Pb024 Intermolecular hydrogen bondings of poly(butylene succinate) studied by infrared spectroscopy and quantum chemical calculations <u>Kohei Ito</u>,Harumi Sato
- 1Pa025 Additive effects of functional hydrocarbons on dynamic and static mechanical properties of high-density polyethylene <u>Kisaki Matsudaira</u>,Asae Ito,Koh-hei Nitta
- 1Pb026 An in-situ Raman spectroscopic study on morphology in mesomorphic isotactic polypropylene during heating and cooling processes <u>Ryota Midorikawa</u>,Misato Nabata,Yusuke Hiejima,Koh-hei Nitta

- 1Pa027 Theory and simulation on structural change of a polymer induced by beta decays of substituted tritium Susumu Fujiwara,Rvuta Kawanami,HAOLUN LI,Hiroaki Nakamura,Kazumi Omata
- 1Pb028 Spherulite growth of polymers from the melt under electric field Masahiro Oomori,Masato Hashimoto,Tomoko Mizuguchi,Susumu Fujiwara
- 1Pa029 Molecular Dynamics Simulation of Clustered DNA Damage Composed of Apurinic/Apyrimidinic Sites <u>Kazushi Terakawa</u>,Ryuta Kawanami,Haolun Li,Susumu Fujiwara,Tomoko Mizuguchi,Yoshiteru Yonetani,Hiroaki Nakamura
- 1Pb030 Crystal morphology of poly(γ-benzyl-L-glutamate)-poly(ethylene oxide)-poly(γ-benzyl-Lglutamate) triblock copolymer Miyuki Tominaga,Yukiteru Katsumoto,Kensuke Osada,Yusuke Sanada
- 1Pa031 Rheological properties of cellulose ester with biomass-based plasticizers <u>Takeyoshi Kimura</u>,Masayuki Yamaguchi
- 1Pb032 Modification of poly(vinyl alcohol) fibers incorporated with metal salt <u>RIZA ASMAA BINTI SAARI, MUHAMMAD SHAHRULNIZAM BIN NASRI, MASAYUKI</u> YAMAGUCHI, KAZUAKI MATSUMURA
- 1Pa033 Dynamics of Polymeric Microparticles in Surfactant Aqueous Solution Probed by Electrophoretic Dynamic Ultrasound Scattering Techniques <u>Mao Yamada</u>,Hideyuki Nakanishi,Tomohisa Norisuye

1Pb034 Structural Properties of Water Molecules around the PEG and alpha-Cyclodextrin onto Gold Surface by MD Simulation <u>Yoshiki Ishii</u>,Nhu Minh Tue Le,Van Sang Le,Hitoshi Washizu

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 1Pb036 Retention Behavior of Polymers on MOF Column Chromatography <u>Kaoru Kioka</u>,Nobuhiko Hosono,Takashi Uemura
- 1Pa037 Polymer Recognition Enabled by Coordination-Driven Insertion into <u>Mizuki Asami</u>,Biplab Manna,Nobuhiko Hosono,Takashi Uemura
- 1Pb038 Capturing of antibody by using nanofiber with ligand-immobilized gel layer on its surface <u>Chihiro Naganuma</u>,Kosuke Moriyama,Shin-ichiro Suye,Satoshi Fujita
- 1Pa039 Development of alginate-supported imidazolidinone organocatalysts <u>Manaho Murakishi</u>,Hiromitu Sogawa,Fumio Sanda
- 1Pb040 Synthesis of Molecularly Imprinted Poly(dimethylaminoethyl methacrylate) for Atropine Detection and Its Application to an Organic Thin Film Transistor-based Sensor Device <u>Qi Zhou</u>,Tsuyoshi Minami
- 1Pa041 Fluorescence-Based Detection of Polymers through Peptide-Polymer Interactions <u>Takuya Nonaka</u>,Seigo Suzuki,Toshiki Sawada,Takeshi Serizawa
- 1Pb042 Development of novel polybenzoxazole membrane for gas separation <u>Rena Kitagawa</u>,Tomoyuki Suzuki
- 1Pa043 Permeation selectivity for composite membranes composed of poly(p-xylylene) films and MOF
 - <u>Satsuki Yoshida</u>,Yu Kitazawa,Mutsumi Kimura
- 1Pb044 Improvement of Water Permeability for Poly(p-xylylene) thin films through structural tuning of amide side chains <u>Mizuki Hayashi</u>,Yu Kitazawa,Mutsumi Kimura
- 1Pa045 Preparation of asymmetric membranes containing surface-modified silica nanoparticles and the gas permeation properties <u>Shiori Higashi</u>,Masafumi Yamato,Hiroyoshi Kawakami
- 1Pb046 Gas transport properties of novel thermally rearranged polymer silica hybrid membranes <u>Ayumi Asano</u>,Tomoyuki Suzuki

D. BIOPOLYMERS AND BIORELATED POLYMERS

1Pa051	Development of tetraPEG-polymeric micelle hybrid gels for the use as tissue-adhesive materials <u>Masato Ogawa</u> ,Yoshihiko Murakami
1Pb052	Development of tissue-adhesive polysaccharide sheets <u>Aya Isoi,</u> Takumi Sato,Yoshihiko Murakami
1Pa053	Structure-activity relationship of natural antimicrobial peptide mimicking calixarene derivatives <u>Mizuki KAJI,</u> Hideto KIBATA,Takuto NAKANO,Gwenael RAPENNE,Kazuma YASUHARA
1Pb054	Shape Control of Self-Assembly by Amphiphilic Polypeptides Having Various Amino Acids on Terminal of Hydrophobic Helix <u>Mohammed Abosheasha</u> ,Toshiro Aigaki,Yoshihiro Ito,Motoki Ueda
1Pa055	Fabrication and functionalization of layered polymeric materials by assembling cellulose nanofibers <u>Eriko Baba</u> ,Yuuka Fukui,Keiji Fujimoto
1Pb056	Quantification Analysis of Hydration Water of Carboxybetaine-type Polyzwitterion by Differential Scanning Calorimetry <u>Shohei Shiomoto</u> ,Yuki Kuhara,Kaito Inoue,Hiroki Uehara,Masaru Tanaka,Motoyasu Kobayashi
1Pa057	Characterization of Hydration Water Bound to Poly(3-sulfopropyl methacrylate potassium salt) by Differential Scanning Calorimetry <u>Kaito Inoue</u> ,Shouhei Shiomoto,Masaru Tanaka,Motoyasu Kobayashi
1Pa061	Design of pH-Responsive Polypeptide Nanoparticles with Molecular Binding Sites <u>Tomoya Iwagaki</u> ,Masaaki Kanazawa,Akifumi Kawamura,Takashi Miyata
1Pb062	Design of Stimuli-responsive Polymers with Protein Recognition Sites and Their Recognition Behavior for Denatured Protein <u>Kanoko Murayama</u> ,Akifumi Kawamura,Takashi Miyata
1Pa063	Control of Cell Migration by Using Nanofibers Geometry Towards Inhibition of Metastasis <u>WAN YING HUANG</u> ,Shin-ichiro Suye,Satoshi Fujita
1Pb064	Synthesis of amino acid-based zwitterionic polymers and their recognition capability to amino acid transporters <u>Shin Takano</u> ,Shota Fujii,Sakurai Kazuo
1Pa065	Design and function of immunoliposomes with transmembrane domain-fused single chain checkpoint antibody for cancer immunoregulation <u>Keigo Nakamura</u> ,Risako Miura,Mitsuru Ando,Shin-ichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi
1Pb066	Evaluation of Chaperone Activity of Modified UCST-Type Thermosensitive Ureido Polymers <u>Yamato Tanaka</u> ,Chun Hao Niu,Naohiko Shimada,Atsushi Maruyama
1Pa067	Cicada wing-inspired antimicrobial poly(vinyl alcohol) materials <u>Kazuma Fujimoto</u> ,Yohei Kotsuchibashi
1Pb068	Application of biodegradable injectable polymer systems to immune cell therapy <u>Kenta Horii</u> ,Yuta Yoshizaki,Nobuo Murase,Yuichi Ohya
1Pa069	Fabrication of scaffold materials with microstructures composed of polymers from waste and PVA cryogel <u>Yuta Hojo</u> ,Gouki Yoshida,Tetsu Mitsumata,Norio Tsubokawa,Qiliang Zhou,Yasuo Saijo,Takeshi Yamauchi
1Pb070	Development of thermosensitive oxygen releasable scaffolds by modulating oxidation state of myoglobin <u>Daisuke Tomioka</u> ,Hirotaka Nakatsuji,Shigeru Miyagawa,Yoshiki Sawa,Michiya Matsusaki
1Pa071	Controlling Viscoelasticity of Support Polymer and Structural Optimization of 3D-Bio Printed Gel <u>Nozomi Kasahara,</u> Dong-Hee Kang,Louis Fiona,Michiya Matsuasaki
1Pb072	Fabrication of high-concentrated collagen gels by nanosizing collagen fibers and their applications to cancer mechanobiology <u>Tomoyuki Suezawa</u> ,Naoko Sasaki,Ryohei Katayama,Michiya Matsusaki
1Pa073	Design of Liquid Crystalline Polymer Films Exhibiting Phase Transition at Body Temperature and Cell Adhesion Behavior on Their Surface <u>Yosuke Konno</u> ,Akifumi Kawamura,Takashi Miyata

- 1Pb074 Cytosolic delivery of the medium molecular-weight polypeptides by the cell-penetration PG-surfactants. <u>Toyohiro Imai</u>,Yasumichi Inoue,Naoki Umezawa,Toshihisa Mizuno
 1Pa075 In situ gelation system for gelatin hydrogel with the controlled gelation kinetics and degradability based on tuning amine group number <u>Shigehito Osawa</u>,Takumi Shishikura,Hidenori Otsuka
 1Pb076 3D analysis of cell aggregate by cell aggregation inducing peptide Ikumi Amimoto,<u>Yoshiaki Hirano</u>
 1P 0757 Ferdentic filmente and the standard states of the ferdentic of the ferdentic states of the states of the states of the ferdentic states of the ferdentic states of the sta
- 1Pa077 Evaluation of barnacle adhesive beta-strand peptide scaffold for 3D culture Ami Takagi,Daisuke Fujii,Kei Kamino,<u>Yoshiaki Hirano</u>
- 1Pb078 Three-dimensional cell organization by controlling cell-polymer substrate interactions <u>Michiharu Kawahara</u>,Hiroki Uehara,Kei Nishida,Takahisa Anada,Masaru Tanaka
- 1Pa079 Application and Evaluation of PDMS Surface Stabilized with Extracellular Matrix for Cyclically Stretching Cell Culture <u>Kazuaki Mori</u>,Kosuke Kataoka,Yoshikatsu Akiyama,Toru Asahi

Poster1Pcd(Remo) Presentation Time <c = 12:30~13:25> <d = 13:25~14:20>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 1Pc001 Synthesis and Photoluminescence Properties of Conjugated Polymers Based on Hypervalent Tin-Fused Azobenzene Complexes <u>Yusuke Morisaki</u>,Kazuya Tanimura,Masayuki Gon,Kazuo Tanaka
- 1Pd002 Synthesis and Optical Evaluation of Luminescent Boron-Fused Azomethine Conjugated Polymers

Misato Kanjo, Shunsuke Ohtani, Masayuki Gon, Kazuo Tanaka

1Pc003 Synthesis of Solid-State Emissive Boron-Fused Azomethine Polymers and Alkyl Chain Length Effect

Shunsuke Ohtani, Natsumi Yamada, Masayuki Gon, Kazuo Tanaka, Yoshiki Chujo

- 1Pd004 Preparation of Near-Infrared Absorptive and Emissive π-Conjugated Polymers Based on Hypervalent Complexes Masayuki Gon,Kazuo Tanaka,Yoshiki Chujo
- 1Pc005 Control of Solvent-Dependent Emission of Conjugated Homopolymers Composed of Boron Dialdiminate Complexes with Side-Chain Engineering Yuki SAKAI,Shunichiro ITO,Kazuo TANAKA
- 1Pd006 Synthesis and properties of structurally symmetrical N,N'-dialkylated or N,N'-diacylated diazacyclooctane-containing ladder polymers Keiki Inoue,Fumitaka Ishiwari,Takanori Fukushima
- 1Pc007 Synthesis and properties of triptycene-appended block copolymers with two-dimensional self-assembling ability Ayami Itagaki,Fumitaka Ishiwari,Tomoya Fukui,Takanori Fukushima
- 1Pd008 Self-assembly and gelation properties of a telechelic PEG with tripodal triptycene termini <u>Yugen Chen</u>,Fumitaka Ishiwari,Tomoya Fukui,Takashi Kajitani,Takanori Fukushima
- 1Pc009 Amphiphilic Random Block Copolymer Micelles: Dynamic Self-Assembly and Thermoresponsive Properties <u>Masayuki Hibino</u>,Makoto Ouchi,Takaya Terashima
- 1Pd010 Precise Introduction of Oligopeptide to Block Copolymer Junction: Toward Peptide-Cooperative Phase Separation <u>Tomoka Yoshimura</u>,Tomofumi Morishita,Makoto Ouchi
- 1Pc011 Amphiphilic Random Copolymer Micelles: Reversible Control of Self-Sorting and Co-Self-Assembly <u>Rikuto Kanno, Takaya Ikami, Makoto Ouchi, Takaya Terashima</u>

1Pd012	Syntheses of Various Topological Polymers via Cyclopolymerization of Divinyl Monomers and the Specific Properties <u>Hiroyuki Kubota</u> ,Makoto Ouchi
1Pc013	Synthesis of an imidazolium salt-containing poly(vinyl ether)s with carboxylate anion and their characteristic thermoresponsive behavior in water <u>Naoki Matsuo</u> ,Tomo Yoshiki,Arihiro Kanazawa,Sadahito Aoshima
1Pd014	Precise Synthesis of Thermo-Responsive Block and Star-Shaped Polymers by Living Cationic Polymerization of Octadecyl Vinyl Ether and Their Gelation Behavior in Organic Solvents <u>Mikiya Umemoto</u> ,Arihiro Kanazawa,Sadahito Aoshima
1Pc015	Synthesis and Cross-linking Reaction of Anthracene-derived Benzoxazine <u>Masahide Goto</u> ,Tatsuo Yajima,Masaki Minami,Hiromitsu Sogawa,Fumio Sanda
1Pd016	Electric field induced reduction of electrophoretic non-ionic polymers <u>Kota Oto</u> ,Akinori Takasu
1Pc017	Visualization of Polymeric Mechanoradicals in Bulk State with Fluorescent Molecular Probes <u>Takumi Yamamoto</u> ,Sota Kato,Daisuke Aoki,Hideyuki Otsuka
1Pd018	Development of copper(I) complex π -conjugated polymer hybrid materials targeting ethylene detection <u>kazuki konno</u> ,tomoya higashihara
1Pc019	Synthesis and Reactions of Bottlebrush Polymers with Mechanochromic Properties <u>Riho Shibata</u> ,Takuma Watabe,Daisuke Aoki,Hideyuki Otsuka
1Pd020	Synthesis of Polyurethane Having Secondary Ammonium Salts and Adsorption Characteristic of Hydrogen-bonding Compounds Utilizing Crownether Inclusion Complex <u>Kaho Murakami</u> ,Kenjiro Onimura,Kazuhiro Yamabuki
1Pc021	Chemical Modification of Polybenzoxazine by Boronic Acids <u>Yuki Tsukamoto</u> ,Jumpei Kida,Daisuke Aoki,Hideyuki Otsuka
1Pd022	Main chain scission of poly(conjugated ester)s by conjugated substitution reaction: Solvent-free reaction by mechanical comminution <u>Rikuto Kimura,</u> Yasuhiro Kohsaka
1Pc023	Synthesis of Figure-eight-shaped Polymers with Dynamic Covalent Bonds and Their Conversion to Cross-linked Polymers via Exchange Reaction <u>Hirogi Yokochi</u> ,Daisuke Aoki,Hideyuki Otsuka
1Pd024	Transformation of cross-conjugated polymers having dendralene units into conjugated polymers via thiol-ene reactions <u>Masayuki Munemoto</u> ,Yuichiro Tokoro,Shin-ichi Yamamoto,Toshio Koizumi
1Pc025	Adhesion of cross-linked polymers based on bond exchange reactions of hindered amino disulfides <u>Sae Sakamoto</u> ,shimon Kataoka,Tsuruoka Ayuko,Aoki Daisuke,Otsuka Hideyuki
1Pd026	Synthesis and Evaluation of Mechanochromic Polymers Having Ionic Functionalities in the Side Chains Ryosuke Kasori,Takuma Watabe,Daisuke Aoki,Hideyuki Otsuka
	B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES
1Pc027	Melt-drawing behavior of ultra-high molecular weight polyethylene having bimodal molecular weight distribution <u>Ayaka Takazawa</u> ,Masaki Kakiage,Hiroki Uehara,Takeshi Yamanobe,Yui Shimizu,Takuya

- Ohnishi,Yasutake Wakabayashi,Kei Inatomi,Shigehiko Abe 1Pd028 Structural study on hydrocarbons covering insect bodies
- <u>Fumitoshi Kaneko</u>,Chihiro Katagiri,Ken Nagashima,Gen Sazaki
- 1Pc029 Molecular dynamics simulation of high pressure effects in polyethylene crystallization <u>Takashi Yamamoto</u>
- 1Pd030 Effect of amorphous grafted chains on crystallization of crystalline/amorphous graft copolymers Kyosuke Sugiura,Toshiyuki Kataoka,Manabu Inutsuka,<u>Takayuki Ikehara</u>

1Pc031	Molecular weight dependence on the behavior of atactic polystyrene near the glass transition range by using temperature-modulated DSC (TMDSC). <u>Ritsuki Hayashi</u> ,Jun Fujimura,Itaru Tukushi
1Pd032	Molecular weight and crystallization behavior of poly (& epsilon; -caprolactone) grafted on a silicon substrate <u>Yuudai Tega</u> ,Manabu Inutuka,Takayuki Ikehara
1Pc033	Higher-order structure - property relationship of aliphatic polyester films based on synchrotron X-ray measurement data <u>Hiroteru Kikutake</u> ,Tomoko Kajiwara,Kazutaka Kamitani,Ken Kojio,Kei Terayama,Yoshifumi Amamoto,Atsushi Takahara
1Pd034	Helix-sense Inversion and Surface Electrical Characteristics of Surface-grafted Polyaspartate Thin Films <u>Ryota Murakami</u> ,Xiaobin Liang,Ken Nakajima,Hidemine Furuya
1Pc035	Study on the phase structure of PP/EPDM Thermoplastic Vulcanizates Using Nano- Palpation Atomic Force Microscopy <u>Kaede Mogi</u> ,Makiko Ito,Xiaobin Liang,Ken Nakajima
1Pd036	Electrostatic interaction of zwitterionic polymer <u>Kengo Takagi</u> ,Shinichi Yusa
1Pc037	Thermal Residual Stress and Adhesion between Isotactic Polypropylene and Epoxy Resin <u>Ryosuke Hosomi</u> , Takuya Matsumoto, Takashi Nishino
1Pd038	Study on heat resistance properties of carbon-nanotube-filled fluororubber by nano- palpation atomic force microscope 2 <u>Toru Kobayashi</u> ,Makiko Ito,Xiaobin Liang,Ken Nakajima
1Pc039	Interdiffusion and glass transition in thin polymer films <u>Koji Fukao</u> ,BOWEN DENG,Yuki Ito,Jun Yosioka
1Pd040	Thermal Stability and Component Interfacial Segregation for a Polystyrene Thin Film by Blending a Diblock Copolymer <u>Naoki Sugiura</u> ,Yoshihisa Fujii,L. Norifumi Yamada,Naoya Torikai
1Pc041	Reversible assembly of temperature responsive gold nanorods immobilized in a DNA brush substrate <u>Jingyan Yang</u> ,Hideyuki Mitomo,Yu Sekizawa,Yusuke Yonamine,Kuniharu Ijiro
1Pd042	Bubbles stabilized with plate-shaped polymer particles <u>Yuri Sakurai</u> ,Tomoyasu Hirai,Yoshinobu Nakamura,Syuji Fujii
1Pc043	Liquid and gas phase sorption behavior of hexane into weakly crosslinked PDMS rubber <u>Mizuki Inoue</u> ,Ismail Edhuan,Hirofumi Kanoh,Izumi Ichinose
1Pd044	Concentration Gradient and Gelation Behavior of Aqueous Methylcellulose Solution at Substrate Interface <u>Kenji Yamaoka</u> ,Norifumi Yamada,Yoshihisa Fujii,Naoya Torikai

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- Development of a New Synthetic Method for Creating Cylindrical Polymers from 1Pc045 Polymerizable Columnar Liquid Crystals Hironobu Iwasawa, Tsubasa Kobayashi, Takahiro Ichikawa Light scattering and adhesive properties of pseudo-polyrotaxane nanosheet 1Pd046 Kimika Endo, Shuntaro Uenuma, Hideaki Yokoyama, Kohzo Ito Introduction of crosslinked structure in heat-resistant porous polymer and thermal 1Pc047 properties Yayoi Yoshioka Efficient Synthesis and Properties of Water-Soluble Silver Nanoparticles Coated by PEG-1Pd048 Modified Thiolates Kohei Abe, Midori Murakami, Yukatsu Shichibu, Katsuaki Konishi Orientation of liquid crystals in MOFs with various functional groups 1Pc049
- 1Pc049 Orientation of liquid crystals in MOF's with various functional groups <u>Masaki Yamaguchi</u>,Shizuka Anan,Yasushi Okumura,Hirotsugu Kikuchi

1Pd050	Preparation of Cellulose Nanofibers from Tunicate through Ammonium Persulfate Oxidation <u>Shunsuke Murai</u> ,Huie Zhu,Masaya Mitsuishi
1Pc051	Lubrication Performances of Polyzwitterion Brush/ Albumin Conjugate Films <u>Riku Furusawa</u> ,Yuji Higaki
1Pd052	Polyzwitterion Coating of PVDF Films through Thermal Annealing in Block Copolymer Aqueous Solutions <u>Shogo Satoh</u> ,Yuji Higaki,Shingo Hikita
1Pc053	Development of highly adhesive material derived from alginic acid <u>Soi Inata</u> ,Hiromitsu Sogawa,Fumio Sanda
1Pd054	Surface Properties and Adhesion of Polyamide 6 Irradiated by Electron Beam. <u>Hiroyuki Nakamura</u> ,Takuya Matsumoto,Takashi Nishino
1Pc055	Density functional theory analysis of the interfacial interactions of epoxy resin with hydrated surfaces <u>Shin Nakamura</u> ,Yuta Tsuji,Kazunari Yoshizawa
1Pd056	Patterning of Anion / Zwitterion-Containing Polymer Coatings <u>Daichi Nakamura</u> ,Takeo Suga,Kenichi Oyaizu
1Pc057	Preparation of fluorine-functionalized plastic surfaces that are re-writable with fluorous molecules <u>Takane Tsuchii,Kazuki Kaneko,Takashi Nishino,Tatsuo Maruyama</u>
	D. BIOPOLYMERS AND BIORELATED POLYMERS
1Pc061	Construction of artificial virus capsid encapsulating enzymes <u>Aoi Nakatsu</u> ,Hiroshi Inaba,Kazunori Matsuura
1Pd062	Fluorescence correlation spectroscopic analysis of formation of fluorescence-labeled artificial viral capsid synthesized by Click chemistry <u>Satomi Yano</u> ,Risako Kobayashi,Hiroshi Inaba,Kazunori Matsuura
1Pc063	Synthesis and conformational study of a chain-branched peptide backbone Ryohei Kakami, <u>Yoshihito Inai</u>
1Pd064	Synthesis of a peptide backbone bearing aromatic side chains and investigation of its chiral molecular structure Kosuke Iijima, <u>Yoshihito Inai</u>
1Pc065	Preventing the function of melittin by indole derivatives <u>Sayuki Kanemitsu</u> ,Yudai Tominaga,Kanon Nishimra,Haruka Sakurai,Atsuo Tamura,Tatsuo Maruyama
1Pd066	Self-assembly composed of a short L-peptide and a short D-peptide <u>Shiho Seguchi</u> ,Takane Tsutii,Sayuki Kanemitsu,kennta Motira,Tatsuo Maruyama
1Pc067	Structural and interaction analyses of the proteins contained in natural rubber materials <u>Takato Matsui</u> ,Choon Pin Foong,Katsuhiko Tsunoda,Yasuo Fukushima,Hirotaka Uji,Keiji Numata
1Pd068	Molecular distribution of the PG-surfactant-modified synthetic polymers at the inside or outside of mammalian cells. <u>Tatsuki Nakakubo</u> ,Toshihisa Mizuno
1Pc069	Evaluation of enzymatic activity of the enzyme-encapsulated core-shell fibermats of nylon-6/poly (AA/DAAM). <u>Taira Ishiguro</u> ,Toshihisa Mizuno
1Pd070	Structure of DNA aptamer forming G-quadruplex and their interaction with target molecules in hydrated ionic liquid <u>Kyoko Fujita</u> ,Hiroyuki Ohno,Takuya Honda,Kaori Tsukakoshi,Kazunori Ikebukuro
1Pc071	Development of drug carrier-chitosan hybrid formulation for oral drug delivery <u>Michihiro Beppu</u> ,Yoshihiko Murakami
1Pd072	Development of drug-releasing sheets formed from multiple polysaccharides <u>Shoya Homma</u> ,Yoshihiko Murakami
1Pc073	Functional Regulation of Drug Molecules by Co-assembly with Oligopeptides <u>Kenta Morita</u> ,Witta Kartika Restu,Yuya Nishimura,Jun Ishii,Tatsuo Maruyama

- 1Pd074 Basic study for formulation based on self-assembling peptides with enzyme reactivity <u>Rie Wakabayashi</u>,Ghazian Dzaky Syahid Fathullah,Honggang Cui,Noriho Kamiya,Masahiro Goto
- 1Pc075 Preparation of core-corona type degradable nanoparticles having transformable core around body temperature Satoshi YAMADA,Syuuhei KOMATSU,Akihiko KIKUCHI
- 1Pd076 Preparation of biocompatible poly(2-methacryloyloxyethyl phosphorylcholine) (PMPC) nanocapsules
 - <u>Sayaka Fujii</u>,Kazuhiko Ishihara,Shin-ichi Yusa
- 1Pc077 Salt Concentration Dependency of Hydrated Swollen Thickness of Cholinephosphate-Type Polyelectrolyte Brush Takumi Komiya,Motoyasu Kobayashi

Poster1Pef(Remo) Presentation Time <e = 14:30~15:25> <f = 15:25~16:20>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

1Pe001	Development of all-π-conjugated p-type semiconducting polymer with twisted stress relaxation unit in the main chain <u>Tomoya Yahagi</u> ,Yuto Ochiai,Tomoya Higashihara
1Pf002	Synthesis of Nitrogen-doped GNR in Metal-Organic Framework <u>Shu Hiramoto</u> ,Takashi Kitao,Takashi Uemura
1Pe003	Synthesis and properties of thermo-responsive amphiphilic copolymers consisted of PNIPAM and polystyrenic block bearing theophylline pendants <u>Haruka Takebuchi</u> ,Katsuya Kaikake,Ren-Hua Jin
1Pf004	Morphology Control via RAFT Aqueous Emulsion Polymerization-Induced Self-Assembly <u>Atsushi Takashima</u> ,Daigo Tsubota,Shinji Sugihara,Yasushi Maeda
1Pe005	Design of Unique Supramolecular Polymer Consisting of Continuoous Structure of Double-threaded [2] Rotaxane Dimer <u>Risako Kamoto</u>
1Pf006	Synthesis and Microphase Separation Behavior of ABA-type Triblock Copolymer Consisting of Cellooligosaccharide Derivative <u>Satoshi Katsuhara</u> ,Yasuko Takagi,Naoki Sunagawa,Kiyohiko Igarashi,Motomitsu Kitaoka,Takuya Yamamoto,Takuya Isono,Kenji Tajima,Toshifumi Satoh
1Pe007	Preparation and Characterization of Multicyclic Polymer-Blended Silicone Rubbers <u>Minami Ebe</u> ,Kaiyu Fujiwara,J. Brian Ree,Takuya Isono,Kenji Tajima,Hironori Marubayashi,Hiroshi Jinnai,Toshifumi Satoh
1Pf008	Fabrication of Microphase-separated Structures with 5 nm domain-spacing using Sugar- inorganic Hybrid Block Copolymers <u>Taiki Nishimura</u> ,Satoshi Katsuhara,Chaehun Lee,Brian Ree,Takuya Isono,Takuya Yamamoto,Kenji Tajima,Toshifumi Sato
1Pe009	Synthesis and optical properties of 1:1 cyclic compounds containing dialkoxynaphalene and naphthalenediimide by means of Suzuki-Miyaura polycondensation <u>Ryota SHIMADA</u> , Yoshihiro OHTA, Tsutomu YOKOZAWA
1Pf010	Synthesis and Properties of Poly(ethylene oxide) Network with Movable Crosslinking Sotaro Mizuno,Seiya Tsuda, <u>Takahiro Uno</u> ,Masataka Kubo,Takahito Itoh
1Pe011	Synthesis of poly(quinolylene-2,3-methylene) bearing various types of amino acid derivatives as the side chain: Stability of πStacked Helical Structure <u>Naoya Kanbayashi</u> ,Yuki Kataoka,Taka-aki Okamura,Kiyotaka Onitsuka
1Pf012	Synthesis and properties of helical polyphenylacetylene having alkylimidazolium groups at the 3,5-positions and dodecyloxy groups at the 4-positions. <u>Ryoma Ozawa</u> ,Takashi Kaneko,Toshiki Aoki,Masahiro Teraguchi
1Pe013	Chiral Amplification Behavior of Poly(diphenylacetylene)s Bearing Carboxy groups and Their Application to Asymmetric Catalysts <u>Takuro YOSHIMURA</u> ,Daisuke HIROSE,Shota SONA,Tsuyoshi TANIGUCHI,Tatsuya NISHIMURA,Katsuhiro MAEDA

- Synthesis and Higher-order Structural Characterization of Poly(4-vinyl pyridine)-b-1Pf014 Poly(2,2,2-trifluoroethyl methacrylate) via RAFT Polymerization Hitomi Kawahara, Yuta Nabae, Teruaki Hayakawa Synthesis of polymers with hydrophilic / hydrophobic groups and polymer reaction 1Pe015 toward GNR synthesis Ryotaro Tsunekawa,Koji Takagi,Kenji Tsukamoto Relationship between Surface Functionality and Mechanical Sensitivity in Mechano-1Pe017 responsive Dendrimers Takuma Watabe, Daisuke Aoki, Hidevuki Otsuka Synthesis of Sugar-based Polycarbonates and Development of Their Recycling System <u>Takumi Abe</u>, Rikito Takashima, Daisuke Aoki, Hideyuki Otsuka 1Pf018 Development of a method for removing residual mononuclear Al compounds in MAO 1Pe019 using a crosslinked polymer containing phenolic hydroxyl groups Mari Nishizono, Ryo Tanaka, Yuusyo Nakayama, Takeshi Shiono Side-functionalization of polyacrylate by means of ester-ester exchange reaction 1Pf020 Takayoshi KATOH, Yoshihiro OHTA, Tsutomu YOKOZAWA Effect of Base on Electrochemical Epoxidation of Natural Rubber in Water Medium 1Pe021 Yoshimasa Yamamoto, Seiichi Kawahara Chiroptical properties of chiral compounds formed by photoinitiated reactions of side-1Pf022 chain polymers having aryloxynaphthacenequinones with low-molecular-weight chiral amines Yukiko Kawasoe, Ikumi Shimada, Nozomi Sugiura, Aya Miyashita, Takunori Harada, Masaya Morivama Precision Degradable Polymer Using Mechanistic Transformation of Bulky Monomer 1Pe023 Nishiki Tomizawa, Tomohiro Kubo, Raita Goseki, Takashi Ishizone, Kotaro Satoh Toward degradable vinyl polymers using trigger-responsive comonomers 1Pf024 Sota Yamamoto, Tomohiro Kubo, Kotaro Satoh Tertiary amino group modification followed by transformation to zwitterionic group of 1Pe025 poly(vinyl alcohol) side chain and its evaluation <u>Naoto Tanabe</u>,Miyuki Oshimura,Tomohiro Hirano,Koichi Ute Investigation toward induction of functions by dynamic exchange of polypeptide side 1Pf026 chains in the presence of a target molecule Tatsumi Takano, Toshiyuki Oyama, Yuichiro Tokoro Spin-Trapping Analysis for Thermal Degradation Mechanism of Poval 1Pe027 Tomoki Hayasi, Kenji Kinashi, Wataru Sakai, Naoto Tsutsumi Side chain modification and evaluation of poly(vinyl alcohol) by chemoselective 1Pf028 transesterification using zinc ate complex Miyuki Oshimura, Ryo Kagitani, Tomohiro Hirano, Koichi Ute 1Pe029 Spin-Trapping Analysis of Thermal Degradation of Poly(propylene) Fiber Anh Thu Nguyen, Kenji Kinashi, Wataru Sakai, Naoto Tsutsumi, Satoko Okubayashi **B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES** Deformation Behavior on Thermoplastic Elastomer Using Nano-Palpation Atomic Force
- 1Pe031 Deformation Behavior on Thermoplastic Elastomer Using Nano-Palpation Atomic Force Microscope <u>Airi Sato</u>, Makiko Ito, Xiaobin Liang, Ken Nakajima
 1Pf032 Study on Improvement of Quantitative Polymer Viscoelasticity Measurement by Nanorheological Atomic Force Microscopy <u>Yasuharu Kashimori</u>, Makiko Ito, Xiaobin Liang, Ken Nakajima
 1Pe033 Interdiffusion of miscible polymer blend investigated by atomic force microscopy 2 <u>Ren Tajiri</u>, Ken Najima, Xiaobin Liang, Makiko ITo
 1Pf034 Molecular interaction between fiber/polymers and low-molecular weight compounds 41. Adsorption characteristics of various fiber Aya Inada, Hitoshi Kanazawa
- 1Pe035 Effect of seawater immersion treatment on the hierarchical structure of polycaprolactone thin film <u>Mamiko Takigawa</u>,Kenshirou Kaji,Hiroyasu Masunaga,Taiki Hoshino,Shinichi Sakurai,Sono Sasaki

- 1Pf036 Evaluation of Water Retention Ability of Farm Products by Various Faming Procedures <u>Honoka Sugiyama</u>,Junki Miyamoto,Daisuke Ishii
- 1Pe037 Evaluation of Water Diffusion by Microscopic Contact Angle on Farm Product Surfaces Junki Miyamoto, Honoka Sugiyama, Daisuke Ishii
- 1Pf038 Material Composition Analysis of insect cuticle with Confocal Laser Scanning Microscope <u>Masanori Yoshida</u>,Rikima Kuwada,Shuto Itou,Daisuke Ishii
- 1Pe039 Shape of Ligia Exotica Imitation Protrusion Structure Coated by Metal Oxide and Its Wetting Behavior <u>Sumire Isachi</u>,Daisuke Ishii
- 1Pf040 Development of novel nanosuits made from plant-derived oils and the application to antiadhesion materials <u>Soma Kitamura</u>,Daisuke Ishii

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

1Pe041	Synthesis and micellization of amphiphilic block copolymer bearing oxygen gas barrier block <u>Tatsuki Ushimaru</u> ,Yosuke Niko,Shigeru Watanabe,Shingo Hadano
1Pf042	Peculiar growth of self-assembled nanosheet consisting of polyethylene glycol and α- cyclodextrin <u>Haruki Kazumi</u> ,Shuntaro Uenuma,Hideaki Yokoyama,Kohzo Ito
1Pe043	Synthesis and Characterization of Radical-type Mechanophore with Two Cyclodextrins <u>Yuki Sugita</u> ,Daisuke Aoki,Hideyuki Otsuka
1Pf044	Thin films of thiolated-Au25 cluster through covalent networking <u>Yuki Saito</u> ,Yukatsu Shichibu,Katsuaki Konishi
1Pe045	Doping effect on near infrared photoluminescence properties of locally functionalized single-walled carbon nanotubes <u>Shunji Yorozuya</u> ,Keita Hayashi,Tsuyohiko Fujigaya,Tomohiro Shiraki
1Pf046	Synthesis of Cyclodextrin Nanosheet <u>Yumi Shikano</u> ,Naoki Ando,Shuntaro Uenuma,Yokoyama Hideaki,Kohzo Ito
1Pe047	Adhesion and degradation properties of pseudo-polyrotaxane nanosheets <u>Junshin Takeda</u> ,Kimika Endou,Shuntaro Uenuma,Hideaki Yokoyama,Kohzo Ito
1Pf048	Preparation of Oblate Spheroidal Polyimide Particles <u>Akiko Nakahashi</u> ,Hideki Tachi
1Pe051	Fabrication and surface wettability measurements of glass microstructure <u>Yoshiyuki Doi</u> ,Yuji Hirai,Masatsugu Shimomura
1Pf052	Regulation of protein adsorption owing to the conformational changes of surface- immobilized peptides <u>Yuya Kobayashi</u> ,Masahiro Higuchi
1Pe053	Analysis of change in liquid behavior by cuticle-mimicking structure <u>Takahiro Kawaguchi</u> ,Daisuke Ishii
1Pf054	The fabrication of channel having micro pillars of difference heights and assessment of liquid behavior <u>Takahiro Doi</u> ,Daisuke Ishii
1Pe055	Synthesis of end-functional RCMP polymer using novel radical reaction and its application for pigment dispersion of inkjet ink <u>Kanta Shimizu,</u> Eri Oishi,Shigeki Takahashi,Tatsuhiro Takahashi,Masumi Takamura
1Pf056	Tribological Properties of Epoxy Composite Materials Containing Three-Dimensional Cellulose Nanofiber Networks and Various Layered Fillers <u>Hiroki Uramatsu</u> ,Kenji Nagata,Hiroshi Eguchi
1Pe057	Direct observation of unidirectional processive motion of the complex molecule of an anionic polymer chain and a cationic polymer chain <u>Yuga Onuki</u> ,Ken-ichi Shinohara

D. BIOPOLYMERS AND BIORELATED POLYMERS

1Pe061	Development of the PG-surfactants, functioning as a cell-type-selective membrane permeation carrier. <u>Momoka Yamada</u> ,Toshihisa Mizuno
1Pf062	Study on the method to induce cell-cell adhesion using the antibody-split intein conjugate. <u>Kengo Asai</u> ,Shinya Tsukiji,Mitsuo Umetsu,Tsuyoshi Takahashi,Toshihisa Mizuno
1Pe063	Construction of artificial viral capsid modified with ribonuclease S by reconstruction <u>YingBing Liang</u> ,Junpei Ota,Hiroshi Inaba,Kazunori Matuura
1Pf064	Construction of artificial viral capsid modified with DNA aptamer <u>Kosuke Uchiyama</u> ,Hiroshi Inaba,Kazunori Matsuura
1Pe065	Selective cancer cells killing by tyrosine kinase-responsive peptide lipids <u>Natsumi Shimizu</u> ,Sayuki Kanemitsu,Kanon Nishimura,Tomoko Yashiro,Tatsuo Maruyama
1Pf066	Investigation of encapsulation of peptide-plasmid DNA complex in PICsome targeting to plant mitochondria <u>Naoya Abe</u> ,Seiya Fujita,Hirotaka Uji,Masashi Ohmae,Kousuke Tsuchiya,Keiji Numata
1Pe067	Chemical synthesis of multiblock polypeptides with sarcosine toward spider dragline silk
11 0001	proteins.
100000	<u>Shota Sakamoto</u> ,Yuki Shimatani,Hirotaka Uji,Kousuke Tsuchiya,Keiji Numata
1Pf068	Role of helix modification for constructing hybrid ferritin cage <u>Jiaxin Tian</u> ,Takeshi Murata,Kenji Yasuda,Basudev Maity,Satoshi Abe,Takafumi Ueno
1Pe069	preparation of hyaluronic acid - antigen protein conjugate to improve antigenicity of
	cancer cells <u>Souichi Ogata</u> ,Reika Tsuji,Sinichi Mochizuki
1Pf070	Design of saccharide chain conjugated polylysine nanogels and their function as nucleic acid nanocarriers
10.071	<u>Kenta Okada</u> ,Tomoki Nishimura,Shin-ichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi
1Pe071	Development of hyaluronic acid gels for the controlled release of multiple drugs <u>Shohei Komuro</u> ,Yoshihiko Murakami
1Pf072	Novel method for preparing porous sheets by using spontaneous emulsification <u>Tuan Vu Bui</u> ,Shinnosuke Nishimura,Yoshihiko Murakami
1Pe073	Metal nanoparticles loaded hybrid vesicle covered by polyamine loop-clusters corona <u>Ayaka Kanno</u> ,Wenli Wang,Ren-hua Jin
1Pf074	Analysis and Control of Lipid Membrane Vesicle-Sheet Transition by Peptide Chaperone
	Polymers <u>Yuta Uei</u> ,Wakako Sakamoto,Tomoka Takenaka,Naohiko Shimada,Atsushi Maruyama
1Pe075	Constructing of peptide-pDNA complex utilizing artificial leucine zipper peptides <u>Yuki Shimatani</u> ,Seiya Fujita,Hirotaka Uji,Keiji Numata
1Pf076	Facile and Rapid Quantification of Surface Charge Groups on Nanocelluloses Utilizing Dye Adsorption <u>Jun Araki</u>
1Pe077	Energy Transfer and Photocurrent Generation of Biohybrid Light-Harvesting 1-Reaction Center Core Complexes (LH1-RCs) <u>Komei Kimoto</u> ,Genki Kasagi,Masaharu Kondo,Takehisa Dewa
1Pf078	Creation of core-crosslinked nanoparticles via nanoemulsions and control of surface polymer chain density <u>Takuma Kanamaru</u> ,Shota Fujii,Kazuo Sakurai
Thu. May	y 27

Thu. May 27 Poster2Pab(Remo) Presentation Time <a = 9:30~10:25> <b = 10:25~11:20>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

2Pa001 RAFT Polymerization by Lewis pair catalysts <u>Tomoko Koyama</u>,Shin-ichi Matsuoka,Masato Suzuki

2Pb002	A chemically renewable vinyl monomer composed of both styrene and vinyl ester skeletons <u>Yota Chiba</u> ,Akane Kazama,Yasuhiro Kohsaka
2Pa003	Design and synthesis of vinyl polymers toward main chain scission involving pendant groups Akane Kazama,Moe Kawauchi,Yasuhiro Kohsaka
2Pb004	Synthesis of Styrene-Based Sequence-Regulated Vinyl Polymers by Atom Transfer Radical Addition and Metathesis Reaction <u>Kenta SOMA</u> ,Naoki FUJIWARA,Yusuke YAMADA,Masato MIYAJIMA,Mineto UCHIYAMA,Masami KAMIGAITO
2Pa005	Synthesis of Multiblock Copolymers by the Combination of Living Radical Polymerization and Thiol-Ene Reaction <u>Genki Morikawa</u> ,Takayuki Tanimoto,Dasom YOO,Masato Miyajima,Mineto Uchiyama,Masami Kamigaito
2Pb006	Radical polymerization of metal salt-containing deep eutectic monomers and material characterization <u>Yuta Tanaka</u> ,Ayaka Torii,Hideharu Mori
2Pa007	Copolymerization of (meth)acrylates with trifluoroethyl and ethylhexyl groups and the properties of the resulting polymers. <u>Yuki Hirayama</u> ,Yoshimasa Matsumura,Bungo Ochiai
2Pb008	Terminal functionalization of polynorbornenes with platinum acetylide complexes <u>Shoichiro Uchiyama</u> ,Taichi Sotani,Hiromitsu Sogawa,Fumio Sanda
2Pa009	Controlled Copolymerization by Metal Complexes [90] Copolymerization of CO2 and Epoxide with Monocyclic Cycloalkyl Groups in Side Chains and the Thermal Properties of the Obtained Copolymers <u>Masayoshi Honda</u> ,Rin Nomura,Hiroshi Sugimoto
2Pb010	Functionalization of polyphenylene at both ends by means of successive Kumada-Tamao catalyst-transfer condensation polymerization and Suzuki-Miyaura coupling reaction <u>Lisa TAKIMOTO</u> ,Yuu TOKITA,Yoshihiro OHTA,Tsutomu YOKOZAWA
2Pa011	Ru-complex-catalyzed dehydrogenation and dehydration polycondensations of aromatic diamines and diols <u>Kohei Imoto</u> ,Rei Kotani,Aohan Wang,Isao Yamaguchi
2Pb012	Development of Well-Controlled Polymerization of Aliphatic Monosubstituted Acetylenes with Trienylrhodium Complexes <u>Kosuke ITO</u> ,Shiori SAKAMOTO,Tsuyoshi TANIGUCHI,Tatsuya NISHIMURA,Katsuhiro MAEDA
2Pa013	Mechanochemical synthesis of aromatic substituted polyacetylenes <u>Kouhei Takeya</u> ,Takase Mai,Yasuteru Mawatari
2Pb014	Synthesis of Functionalized Isotactic Polypropylene by Copolymerization of Alkenylboronic Acid Esters and Amides <u>Hiroya Fujii</u> ,Ryo Tanaka,Yuushou Nakayama,Takeshi Shiono
	B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES
2Pb016	Relationship between volume resistivity and water absorption for poly(4,4'- Oxydiphenylene Pyromellitimide) Films <u>Tsuyoshi Yamada</u> ,Takumi Noda,Kenji Takada,Tatsuo Kaneko,Mika Kawai,Tetsu Mitsumata
2Pa017	Tensile fracture behavior of poly(methyl methacrylate) <u>Naoya Funasaki</u> ,Asae Ito,Koh-hei Nitta
2Pb018	Study of physical properties of polymers and liquid crystals by means of environmentally responsive fluorescent dye <u>Gen-ichi Konishi</u>
2Pa019	Molecular Aggregation State Analysis of Poly(methyl methacrylate) under Tensile Deformation <u>Ryosuke Kawatoko</u> ,Tomoko Kajiwara,Aya Fujimoto,Ken Kojio,Atsushi Takahara
2Pb020	Effect of cold-crystallization on the mechanical behavior of poly(L-lactic acid) <u>Taiga Kawashima</u> ,Takahiko Kawai,Shin-ichi Kuroda

2Pa021	Unique association behavior of poly (2-ethyl-2-oxazoline) and poly (methacrylic acid) at various pH changes. <u>Hiroto Emi</u> ,Hiroki Kanamori,Yasuhiro Matsuda
2Pb022	Molecular simulation of self-sorting of amphiphilic copolymers <u>Nami Sato</u> ,Tsuyoshi Koga
2Pa023	Interaction of cationic diblock copolymer and anionic polysaccharide <u>Kazushi Ogata,</u> Mineo Hashizume,Shin-ishi Yusa
2Pb024	Analysis of structure of nanoemulsions by computer simulation <u>Shunichi Utsumi</u> ,Tsuyoshi Koga
2Pa025	Solution Properties of Poly(ethylene oxide)-Poly(<i>N-t</i> -butylacrylamide) Alternating Multiblock Copolymers Mizuki Hirano,Kenji Sakanaya,Yusuke Sanada,Yukiteru Katsumoto
2Pb026	Development of a Noise Analysis Nanofishing using Atomic Force Microscopy <u>Masato Mori</u> ,Xiaobin Liang,Ken Nakajima
2Pa031	Comparison of Characteristics of Single-Walled Carbon Nanotubes Obtained by Super- Growth CVD and Improved-Arc Discharge Methods Pertaining to Interfacial Film Formation and Nanohybridization with Polymer <u>Ahmed ALMARASY</u> ,Takuto HAYASAKI,Yuna YAMADA,Youhei KAWABATA,Atsuhiro FUJIMORI
2Pb032	Proposal of Dispersibility Improvement Technology for Nanocomposite Preparation of Crystalline Fluorinated Polymer/Organo-modified Single-walled Carbon Nanotubes <u>Takuto HAYASAKI</u> ,Ahmed A. ALMARASY,Atsuhiro FUJIMORI
2Pa033	Preparation and structural analysis of non-spherical hollow polymer particles Tomoya Hirano, <u>Tatsuo Taniguchi</u> ,Takashi Karatsu
2Pb034	Synthesis of polystyrene particles by dispersion polymerization using stimulus-responsive branch polymer and their use as a pH-responsive foam stabilizer <u>Sayaka Fukui</u> ,Tomoyasu Hirai,Yoshinobu Nakamura,Syuji Fujii
2Pa035	Research on cationic dispersion polymerization reactions for preparation of polymeric microspheres <u>Yuri Akimoto,</u> Takeshi Wakiya,Koji Arimitsu
2Pb036	Non-close-packed arrays of elastomer microspheres on solid substrates through evaporation of aqueous droplets <u>Yuma Sasaki</u> ,Seina Hiroshige,Masaya Takizawa,Haruka Minato,Daisuke Suzuki
2Pa037	Elucidation of the Spheroidizing Mechanism of Nanofibers of Gemini-Type Diamide Derivative Having Two-Hydrocarbons with Thixotropic Ability Yuki MASHIYAMA,Haruka MARUYAMA,Eiichi SATOU,Atsuhiro FUJIMORI
2Pb038	Preparation of self-standing thin film by poly(n-butyl methacrylate)-grafted silica nanoparticles <u>Yuki Kodama</u> ,Motoyasu Kobayashi
	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS
2Pa041	Synthesis of High-Molecular-Weight Benzoxazines from Aminophenols by Microwave Heating <u>Yujie Chen,</u> Takehiro Kawauchi
2Pb042	Thermal and mechanical properties of novel polybenzoxazines obtained from an oligonuclear phenolic compound and various amines with crosslinkable functional groups <u>Taichi Shibatsuka</u> , Takehiro Kawauchi
2Pa043	Preparation of Tough Methacrylic Resin Using Graft-copolymer Architecture with Molten main chain

- <u>Kanta Yamawake</u>, Mikihiro Hayashi, Akinori Takasu
 2Pb044 Preparation and properties of bio-based self-healing materials using the Diels-Alder reactions of plant oils with a bismaleimide <u>Mizuki Uzaki</u>, Mitsuhiro Shibata, Naozumi Teramoto
- 2Pa045 Fabrication of Aligned Collagen Films Using Inclined Substrate with Surface Relief Structures <u>Hirona Nakamura</u>,Terumine Iino,Kohsuke Matsumoto,Miho Aizawa,Atsushi Shishido

- 2Pb046 Mechanically Robust and Humidity-resistant Self-healable Polymer Glass enabled by Nano-phase Separation Yuta Fujisawa,Yiling Nan,Yu Yanagisawa,Keiichi Yano,Itoh Yoshimitsu,Takuzo Aida
- 2Pa047 Controlled photoinduced electron transfer in polymer matrix
 - Yilin Cao, Tomoe Takasaki, Hiroyasu Yamaguchi

D. BIOPOLYMERS AND BIORELATED POLYMERS

2Pa051 Development of template-directed synthesis of L-aTNA for primer extension reaction by non-enzymatic chemical ligation Hikari Okita, Keiji Murayama, Hiroyuki Asanuma Construction of a reduction-responsive oligonucleotide by a post-modification approach 2Pa053 utilizing 4-nitrophenyl diazomethane Yugo Kawaki,Nanami Shirakami,Aya Shibata,Masato Ikeda Nanogel formation and functional evaluation of nanogels of oligonucleotide-substituted 2Pb054 polysaccharide modified with fluorescent probes Tomoya Araike, Shin-ichi Sawada, Yoshihiro Sasaki, Kazunari Akiyoshi 2Pa055 High-Speed AFM Observation of Light-Driven DNA Origami Molecular Machines Tomoki Nishikawa,Yuto Moritaka,Shumpei Ishikawa,Yuichi Ohya,Akinori Kuzuya Single Molecule Analysis of Excluded Volume Effect Using DNA Origami-PEG Hybrid 2Pb056 Yuta Okamoto, Shota Abe, Yoshihiro Iida, Kota Sakamoto, Yuichi Ohya, Akinori Kuzuya 2Pa061 Immuno-modulation by oligoethyleneimine and the application for the therapy of inflammatory diseases Akihiro Nishiguchi, Tetsushi Taguchi Development of anti-cancer drug delivery system utilizing DNA quadruplex mesogels 2Pb062 Haruki Tanaka, Daichi Inui, Kana Teragami, Kohei Tatsumi, Yuichi Ohya, Akinori Kuzuya 2Pa063 Combination therapy with anticancer drugs and immunostimulatory CpG DNA and SPG complexes Yusuke Miyashima, Mizuha Takaoka, Kazuo Sakurai Selective Cell Death Caused by Random Copolymers Consisting of a Monosaccharide 2Pb064 Monomer and a Vitamin E Monomers Moemi Matsuda, Takuya Kitazume, Toru Ooya 2Pa065 Preparation of conjugate hyaluronic acid-double-stranded RNA for inducing the presentation of cancer antigens Fuyu Yamamoto, Masashi Umeda, Shinichi Mochizuki Development of temperature-responsive micropaticles formed via sol-gel transition -2Pb066 application to pulmonary DDS-Takumi Sato, Yoshihiko Murakami Preparation of emulsions and particles by using aqueous two-phase system for 2Pa067 pulmonary DDS Kaho Moriguchi, Yoshihiko Murakami

E. POLYMERS AND ENVIRONMENT

Synthesis of poly(butylene furanoate) with amine functionality via ring-opening

Yuushou Nakayama, Takumi Harada, Ryo Tanaka, Takeshi Shiono

2Pa071

polymerization

 2Pb072 Synthesis and Biodegradation of Poly(ester-thioether) Containing L-Malate Units Yuka Sato, Akinori Takasu, Shoko Uchiyama, Osamu Morimoto
 2Pa073 Synthesis and Biodegradation of Polyurethanes Using Dianhydrohexitols Kaho Kataoka, Akinori Takasu
 2Pb074 Synthesis of urethane materials using PHA oligoesters with various diol ends Tetsuo Sakurai, Shoji Mizuno, Ayaka Hiroe, Seiichi Taguchi, Takeharu Tsuge
 2Pa075 Synthesis and Characterization of Bio-based Polyesters Derived from Silylated Divanillic Acid Monomers Kentaro Fujieda, Yukiko Enomoto, Tadahisa Iwata

- 2Pb076 Synthesis and characterization of bio-based polyketone and polyetherketone from divanillic acid Yukiko Enomoto,Tadahisa Iwata
- 2Pa077 Synthesis and Characterization of Biobased Polyamides Derived from Divanillic Acid Kazuma Yagura, Yukiko Enomoto, Tadahisa Iwata
- 2Pb078 Introduction of various phenol structures to lignin and application of the phenolized lignins to epoxy resins Shiho Fujita,Toshiyuki Oyama
- 2Pa079 Development of Kraft lignin-based Plastics via Selective Modification Method and Evaluation of Thermal Properties <u>Shiori Suzuki</u>,Tadahisa Iwata
- 2Pb080 Fabrication of multilayer materials composed of polysaccharide ester derivatives and P(3HB-co-3HHx) and assessment of the biodegradability Jobu Tateiwa, Satoshi Kimura, Hongyi Gan, Tadahisa Iwata

Poster2Pcd(Remo) Presentation Time <c = 12:30~13:25> <d = 13:25~14:20>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Radical Polymerizations of Vinyl Boronate Derivatives: Molecular Design of the Boron 2Pc001 **Protecting Group** Hiroshi Suzuki, Tsuyoshi Nishikawa, Makoto Ouchi Precise Syntheses of End-Functionalized Poly(Alkenyl boronate)s: Control of Selective 2Pd002 Cross Coupling at the Growing Chain End Tomoaki Kanazawa, Tsuyoshi Nishikawa, Makoto Ouchi Precision Syntheses of Alternating Copolyacryamides: Molecular Design toward Higher 2Pc003 Molecular Weight and Sequence Functions Kentaro Shibata, Makoto Ouch 2Pd004 Synthesis of Novel Functional Bio-Based Polymers Derived from Caffeic Acid Shiho Tanizaki, Tomohiro Kubo, Kotaro Satoh Radical copolymerization of glycerol-derived vinyl ethers for a new bio-based polymer 2Pc005 Riko Kashima, Tomohiro Kubo, Kotaro Satoh Synthesis of multi-arm poly(vinyl alcohol) through RAFT polymerization of vinyl acetate 2Pd006 Gaishi Murakami, Tomohiro Kubo, Kotaro Satoh Synthesis and chain-end Passerini three-component reaction of the well-defined polymers 2Pc007 end-functionalized with aldehyde units Lichieh Chou, Arisa Hirama, Ryohei Kakuchi Synthesis of Poly(arylene vinylene)s via Hydroarylation of alkynes 2Pd008 Ryota Iwamori, Ryota Sato, Junpei Kuwabara, Takeshi Yasuda, Takaki Kanbara Short-step synthesis of photovoltaic materials (PBDB-T) via direct arylation reaction 2Pc009 Kota Hiyaji, Shuyang Guo, Junpei Kuwabara, Takeshi Yasuda, Takaki Kanbara Pd-catalyzed, Ag-assisted system for direct arylation polymerization at room temperature 2Pd010 Junhui Chen, Junpei Kuwabara, Takaki Kanbara Synthesis of conjugated polymers via decarboxylative cross-coupling polycondensation 2Pc011 using carboxy group as a reactive functional group Akihiro Takamoto, Yusuke Onose, Junpei Kuwabara, Takaki Kanbara Polymerization of olefins by N-heterocyclic carbene silver catalysts 2Pd012 Nanako Kimura, Daisuke Takeuchi, Sayoko Ogura, Sayaka Takazawa, Masaki Kakiage, Ken Yamanobe, Hiroki Uehara Ethylene Polymerization by Metal Catalysts Supported on Glass 2Pc013 Moeka Narasaki, Daisuke Takeuchi, Atsunobu Masuno, Sayoko Ogura, Ritsuki Harasawa, Ayaka Takazawa, Masaki Kakiage, Takeshi Yamanobe, Hiroki Uehara Polymerization of diazoacetates initiated by Pd complexes with N-substituted maleimide 2Pd014 ligands Hinano Hayashi, Hiroaki Shimomoto, Tomomichi Itoh, Eiji Ihara

- 2Pc015 Tandem polymerization of conjugated dialdehydes and vinyl ethers by cyclotrimerization and Tishchenko reaction: Synthesis of degradable linear polymers with both cyclic acetal and ester structures in the main chain <u>Tadashi Naito</u>,Arihiro Kanazawa,Sadahito Aoshima
- 2Pd016 Click Living Polymerization of Various Sugar-Based Monomers Sawako Doi, Tomohiro Kubo, Kotaro Satoh
- 2Pc017 Click Living Polymerization of AB Monomers with Various Ethylene Glycol Spacer Satoshi Sakai, Tomohiro Kubo, Kotaro Satoh
- 2Pd018 Ring-opening polymerization of cyclic esters catalyzed by quaternary ammonium salts. <u>Satoru Takagi</u>,Karoru Takojima,J. Ree Brian,Takuya Isono,Takuya Yamamoto,Kenji Tajima,Toshifumi Satoh
- 2Pc019 Synthesis of Host-Guest Cross-Copolymer by Urethane Formation <u>Mariko Tsutsumi</u>,Hiroki Amaya,Tokiyo Katou,Shizuka Anan,Kenta Kokado,Kazuki Sada

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 2Pc021 Induced highly ordered phases in side-chain liquid crystal polysiloxanes with binary mesogen mixtures by copolymerization and blending. <u>Naoki Hida</u>,Tatsunaga Nakajima,Mitsuo Hara,Syusaku Nagano,Takahiro Seki
- 2Pd022 Isotropic-liquid crystalline phase transition induced by swelling-shrinking of polypeptide gels immersed in various solvents Miyu Yamasaki,Shogo Nobukawa,Hideki Sugimoto,Katsuhiro Inomata
- 2Pc023 Uniaxial deformation of single-crystal-like lamellar microdomain formed by liquid crystalline block copolymers: effects of the molecular weight and amorphous segment on the stress and structural changes Masaaki Oguro,Seiichiro Yagi,Masatoshi Tokita
- 2Pd024 Liquid crystal structure and water repellency of poly(substituted methylene)s bearing perfluoroethyl groups at the side-chain ends <u>Ayano Yoshitake</u>,Masatoshi Tokita
- 2Pc025 Formation of Induced Liquid Crystal Phase in Binary Systems by mixing Semi-flexible Liquid Crystalline Polyurethane and Polar Molecules Ryo KURAHASHI,Shogo NAKAGAWA,Masanori NATA,Seiji UJIIE
- 2Pd026 Influence of Shape and Polarity in the Side-Chain for Liquid Crystal Formation of Side-Chain Liquid Crystal Polymers Shougo Nakagawa,Ryo Kurahashi,Masanori Nata,Seiji Ujiie
- 2Pc031 Adhesion function of polymer particle-stabilized bubble under water <u>Sora Ashiwa</u>,Tomoyasu Hirai,Yoshinobu Nakamura,Syuji Fujii
- 2Pd032 Photo-responsive liquid marbles stabilized with polypyrrole-stearic acid composite particles Yusuke Tsumura,Tomoyasu Hirai,Yoshinobu Nakamura,Syuji Fujii
- 2Pc033 Tuning of the responsive temperature of gold nanoparticle assembly by surface modification with temperature-responsive ligands Kun Xiong,Hideyuki Mitomo,Yier Shi,Yusuke Yonamine,Kuniharu Ijiro
- 2Pd034 Reversible formation of gold nanoparticle-vesicles responding to solvent <u>Ryo Sugiyama</u>,Hideyuki Mitomo,Yusuke Yonamine,Kuniharu Ijiro
- 2Pc035 Verification of structural Maintenance Function of Kink-Introduced Nano-Millefeuille Structural Matter by Deformation Takato OHASHI,Nanata KIKUCHI,Atsuhiro FUJIMORI
- 2Pd036 Evaluation of Structure Maintenance Properties of Kink-Introduced Nano-Millefeuille Structural Matter Under the Heating Nanata KIKUCHI,Takato OHASHI,Atsuhiro HUJIMORI
- 2Pc037 Hydrophobic polypyrrole derivatives synthesized by solvent-free chemical oxidative polymerization and their function as a stimuli-responsive liquid marble stabilizer <u>Musashi Seike</u>,Tomoyasu Hirai,Yoshinobu Nakamura,Syuji Fujii
- 2Pd038 Microgels adsorbed at the air/water interface of sessile droplets <u>Haruka Minato</u>,Daisuke Suzuki

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- Electromagnetic properties of hemoglobin and polyaniline composite 2Pc039 Mai Ichikawa, Hiromasa Goto Development of Naphthalenediimide-based n-Type Semiconducting Polymer with 2Pd040 Oligosiloxane Units in Main Chain Tetsuya Okazaki, Tomoya Higashihara Electrochemical Transistors Blended with a Temperature Responsive Polymer 2Pc041 Shuhei Kindaichi, Shunsuke Yamamoto, Masaya Mitsuishi Dip Coating of Water-Insoluble PEDOT:PSS Films 2Pd042 Ryusei Miyako, Shunsuke Yamamoto, Yuya Ishizaki, Ryota Maeda, Masaya Mitsuishi Synthesis of Polyaniline in Cellulose derivatives. 2Pc043 Ryo Miyashita, Hiromasa Goto Development of Naphthalene-diimide-based n-Type Semiconducting Polymers with 2Pd044 Precisely-designed Stress Relaxation Units Megumi Matsuda, Tomoya Higashihara Coherence resonance in a nonlinear electric circuit driven by noise from a binary mixture 2Pc045 of semicrystalline polymer with liquid crystalline molecule Sotaro Ariga, Makoto Ohtomo, Ryota Maruyama, Naoki Asakawa Electron doping of single-walled carbon nanotube by pyridine-boryl radicals 2Pd046 Aoi Hamasuna, Naoki Tanaka, Tsuyohiko Fujigaya Synthesis and magnetic properties of polyaniline/gluconic acid iron 2Pc047 Yusuke Koshikawa, Hiromasa Gotoh Preparation of room temperature activated hydrogen sensor using graphene. 2Pd048 Ryoga INOUE, Hirofumi MIYAKE, Takahiro MURAKAMI, Shuji HARADA, Tetsu MITSUMATA, Norio TSUBOKAWA, Takeshi YAMAUCHI Preparation of direct-bonding body of low profile copper foil with OH and COOH groups 2Pc049 introduced fluoropolymer by low-temperature plasma Seiryu Hirao, Kazuya Matymoto, Won Hwan Choi, Sintaro Hisatake, Kouhei Siraisi, Miyosi Yokura, Masatsugu Nagasima 2Pd050 Application of Benzenetricarboxamide Having Oligoethylene Oxide Chains as an Electrolyte Matrix Yuzo Ishigaki, Shigeki Habaue, Ryoichi Ichino D. BIOPOLYMERS AND BIORELATED POLYMERS 2Pc051 Preparation of porous biomaterials with ultra-low-density by using spontaneous
- emulsification -drug-release control for the pulmonary DDS application-<u>Ryo Taguchi</u>,Shinnosuke Nishimura,Yoshihiko Murakami
- 2Pd052 Fabrication of Calcium Carbonate coated Vesicles having target recognition avility and the Application for DDS Carrier <u>Nana Kato</u>,Kazuho Atsumi,Masahiro Higuchi
- 2Pc053 Fabrication of drug delivery nanocarriers that responded to slight pH and temperature changes. <u>kourin wan</u>,masahiro higuchi
- 2Pd054 Design of a boron atom delivery system using a pH-sensitive polymeric micelle having internal cross-linkings Manami Yamasaki,Ryoya Umeyama,Kengo Suzuki,Nobuo Murase,Yuichi Ohya
- 2Pc055 pH-responsive Mixed Charge Polymeric Micelles Targeting Weakly Acidic Environment of Tumors Yubuki Nakamura,Marina Nasu,Daniel Citterio,Yuki Hiruta
- 2Pd056 Intracellular delivery of p53 to human bladder cancer cells by cell-penetrating PGsurfactant Rvohei Kaie,Natsumi Sumito,Yasumichii Inoue,Naoki Umezawa,Toshihisa Mizuno
 - 2057 The effect of particle characteristics of a cyclodextrin-based drug carrier on anti-tumor
- 2Pc057 The effect of particle characteristics of a cyclodextrin-based drug carrier on anti-tumor activity <u>Jun Katsuki</u>,Van Doan,Shota Fujii,Kazuo Sakurai

- 2Pd058 Design of pH-Responsive Desorptable Nanogels Capable of Both Endosomal Escaping and Nuclear Transporting Abilities <u>Yuta Hamada</u>,Koji Nagahama
- 2Pc059 Synthesizing a-Mangostin-carried polymer for treating CT26 colon cancer cells <u>Thu Duc Tran</u>,Shinichi Mochizuki

E. POLYMERS AND ENVIRONMENT

2Pc061 Syntheses of polyurea gels using bio-derived furandiamine and evaluation of thermo properties

<u>Takuya Kumakura,</u>Kenji Takada,Tatsuo Kaneko

- 2Pd062 Development of functional biomass plastics derived from unutilized non-edible phenols <u>Shinji Kanehashi</u>,Kan Kato,Syotaro Kariya,Luis Asato,Serika Ito,Kenji Ogino
- 2Pc063 Self-degradation of enzyme-embedding biodegradable polyesters in aquatic environment <u>Qiuyuan HUANG</u>,Satoshi KIMURA,Tadahisa IWATA
- 2Pd064 Preparation of biodegradable plastics using general-purpose plastics <u>Ryoya Masaki</u>,Kensuke Miyazaki,Takashi Yoshida
- 2Pc065 Elucidation of The Effect of Crystallinity and Orientation of PBS and PBSA on Enzymatic Degradation Rate

Daisuke Takaya,Hongyi Gan,Qiuyuan Huang,Satoshi Kimura,Tadahisa Iwata

- 2Pd066 Preparation and physical property of microbead derived from biodegradable polymers <u>Hongyi Gan</u>,Satoshi Kimura,Tadahisa Iwata
- 2Pc067 Biodegradability of plastic materials in marine environment under field and laboratory condition

Hironori Taguchi, Takako Kikuchi, Nao Osaka, Shunsuke Nakamura

- 2Pd068 Effects on lab-BOD test of biodegradable polymer using seawater <u>Atsuyoshi Nakayama</u>,Naoko Yamano,Noriyuki Kawasaki,Tsutomu Nakamura
- 2Pc071 Development of high mechanical strength nanocomposites using polycaprolactone-grafted nanofibrillated bacterial cellulose <u>Binti Hashim Hamidah</u>,binti Emran Nur Aisyah Adlin,Satoshi Katsuhara,Hiroko Ninoyu,Takuya Isono,Tokuo Matsushima,Takuya Yamamoto,Toshifumi Satoh,Kenji Tajima
- 2Pd072 Cellulose nanocrystal / chitosan composite films having transparency, mechanical strength and sealing properties Kazuma Tsujioka,Yuji Hirai,Masatsugu Shimomura
- 2Pc073 Study on the Compatibility of glycol-lignin and Various Engineering Plastics <u>Haruka Kato</u>,Ayumi Kobayashi,Kohei Iritani,Thi Thi Nge,Tatsuhiko Yamada,Takashi Yamashita
- 2Pd074 Physical property and structural analysis of nigeran ester derivatives <u>Azusa Togo</u>,Keiko Uechi,Osamu Mizutani,Satoshi Kimura,Tadahisa Iwata
- 2Pc075 Highly Ordered Structure analyses of high strength and elastic microbial polyester fibers <u>Taku Omura</u>,Katsuya Komiyama,Akira Maehara,Taizo Kabe,Tadahisa Iwata
- 2Pd076 Relationship between the cell growth and the accumulation of P (3HB) using cysteine and glucose as carbon sources by Ralstonia eutropha Takahiko Nakaoki,<u>Ryosuke Sumida</u>
- 2Pc077 Production of spider's C-terminal domain of Major ampullate Silk protein (MaSp) in marine purple photosynthetic bacteria <u>Takuma Kawaguchi</u>,Choon Pin Foong,Ali D. Malay,Keiji Numata

Poster2Pef(Remo) Presentation Time <e = 14:30~15:25> <f = 15:25~16:20>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

2Pe001 Analysis of reaction kinetics during bulk polymerization of methyl methacrylate using differential scanning calorimetry <u>Ryutaro Mishima</u>,Yasuhito Suzuki,Akikazu Matsumoto

2Pf002	Applicability of Living Radical Polymerization Using Amine Catalysts in Aqueous Dispersed Systems <u>Daiki Tokura,</u> Yukiya Kitayama,Eiji Yuba,Atsushi Harada
2Pe003	Post-synthetic modification of methacrylate to MOF and gelation by Crystal Cross-Linking <u>Hiroki Amaya</u> ,Tokiyo Katou,Kenta Kokado,Kazuki Sada
2Pf004	Precision synthesis and unique solution properties of alternating copolymers of hydrophilic vinyl ether and maleimide derivative <u>Kazuki Yano,</u> Shohei Ida,Shokyoku Kanaoka
2Pe005	Synthesis and Polymerization of Glycerol-Derived Cyclic Monomer with Lactone Structure <u>Yuki SAKATA</u> ,Yuki UCHIYAMA,Hayato YOSHIDA,Takenori NISHIDA,Mineto UCHIYAMA,Masami KAMIGAITO
2Pf006	Synthesis of triazole-containing nano-objects by polymerization induced self-assembly <u>Chiharu KUMANO</u> ,Kazunori MASUKO,Hideharu MORI
2Pe007	Synthesis of side-chain-type carbazole/oxadiazole copolymers for thermally activated delayed fluorescence(TADF) <u>Naomi ITO</u> ,Masaki FURUKAWA,Hideharu MORI
2Pf008	Synthesis of cyclic olefin polymers by ring-opening metathesis polymerization of norbornene derivative with spirofluorene moiety <u>Saki Ishii,</u> Shin-ichi Matsuoka,Masato Suzuki
2Pe009	Addition polymerization of norbornene derivatives catalyzed by $Ni(C_6F_5)_{2}(SbPh_{3})_{2}$ <u>Kazuha Izuma</u> ,Shinichi Matsuoka,Masato Suzuki
2Pf010	Ring-opening metathesis polymerization of norbornadiene dimers and post-polymerization modification <u>Kazuki Hase</u> ,Shin-ichi Matsuoka,Masato Suzuki
2Pe011	Ring-opening metathesis polymerization of norbornene lactones <u>Sae Kiyohara</u> ,Narumi Miyasako,Shin-ichi Matsuoka,Masato Suzuki
2Pf012	Ring-opening metathesis polymerization of polycyclic cyclobutene derivative containing lactone ring Yuta Asano,Shin-ichi Matsuoka,Masato Suzuki
2Pe013	Synthesis and Helicity Control of Water-Soluble Poly(biphenylylacetylene)s Bearing Optically Active Oligoethylene Glycol Pendants <u>Koshi Nakamura,</u> Kosuke Mizumoto,Tomoyuki Ikai,Eiji Yashima
2Pf014	Synthesis of Poly(biphenylylacetylene) Derivatives Bearing Optically Active 1- Ethoxyethoxy Groups in the Side-Chain and Their Chiral Amplification Behaviors <u>Tsuyoshi Majima</u> ,Tomoyuki Ikai,Eiji Yashima
2Pe015	Synthesis of Poly(biphenylylacetylene)s Bearing Optically Active Pendants in the Vicinity of the Main-Chain and Their Macromolecular Helicity Control <u>Yuki Morita</u> ,Tsuyoshi Majima,Tomoyuki Ikai,Eiji Yashima
2Pe017	Photophysical Properties of Aluminum Dihydride Complexes of β-Diketiminate Ligands <u>Keisuke Suwa</u> ,Shunichiro Ito,Kazuo Tanaka
2Pf018	Control of Luminescence Mechanisms of Aryl-Modified Carboranes by Changing Substitution Positions <u>Junki Ochi,</u> Kazuo Tanaka
2Pe019	Synthesis of polymers containing diarylbenzoarsoles in the main- and side-chains Kosuke Ishijima <u>,Hiroaki Imoto,</u> Kensuke Naka
2Pf020	Syntesis of gels having viologen units and evaluation as an electron transfer catalyst Koichi Miyazaki,Mayu Takahashi,Hiroto Asano,Kohei Shirai <u>,Rikiya Sato</u>
	B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES
2Pe021	Examination of Arrangement Change by Linker Part Substitution of Cyclic Moieties-

- 2Pe021 Examination of Arrangement Change by Linker Part Substitution of Cyclic Moieties-Containing Polyguanamine Derivatives Having Metal Scavenging Property Junto YAMAGUCHI, Yuto OTSUKI, Yuji SHIBASAKI, Atsuhiro FUJIMORI
- 2Pf022 Verification of Monolayer Conformation on the Water Surface of s-Triazine Derivatives Containing Fluorocarbons with Different Length <u>Haruka MARUYAMA</u>,Momo MAEDA,Atsuhiro FUJIMORI

2Pf024	Formation of Stimuli-Responsive Polyoxazoline/Poly(zwitterion) Block Copolymer
	Aggregates
	<u>Naoki Kuraoka,</u> Akane Shimizu,Yuji Higaki

- 2Pe025 Structure Modulation of Double Zwitterionic Block Copolymer Aggregates by Zwitterion-Specific Interactions Akane Shimizu,Masaya Takahashi,Yuji Higaki
- 2Pf026 Impact of Molecular Weight in Lyotropic Ordered Structure Transition of Zwitterionic Block Copolymers Masaya Takahashi,Akane Shimizu,Yuji Higaki
- 2Pe027 Elucidation of the dominant factors of luminescence properties in polymer materials exhibiting long-lived room temperature phosphorescence Shun Yamazaki,Tatsuo Taniguchi,Takashi Karatsu
- 2Pf028 Structural analysis of polyoxyethylene secondary alkyl ether micelles by small-angle Xray scattering Mao NAKAGAWA,Atsushi OKADA,Toru INAOKA,Shiho YADA,Tomokazu YOSHIMURA
- 2Pe031 Theoretical Study on Pressure-Induced Phase Transition of Block Copolymers <u>Hiroki Kodama</u>,Tsuyoshi Koga
- 2Pf032 A study of Intermolecular interaction in PVA/PMMA blend using vibrational spectroscopy <u>Erika Mitani</u>,Harumi Sato
- 2Pe033 Dispersion State and Rheological Properties for the Polystyrene Composite with Fumed Silica Having Different Primary Particle Sizes <u>Risako Ikeda</u>,Yoshihisa Fujii,Naoya Torikai
- 2Pf034 Study of physical properties of silica/elastomer composites using nano-tactile atomic force microscopy Yuto Miyata,Makiko Ito,Xiaobin Liang,Ken Nakajima

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 2Pe035 Evaluation of chemiluminescence based POSS scaffolds <u>Daisuke Iizuka</u>,Masayuki Gon,Kazuo Tanaka
- 2Pf036 Synthesis and Physical Properties of Nonconventional Chromophore Based on Polyhedral Oligomeric Silsesquioxane Yusuke Taguchi,Havato Narikiyo,Masayuki Gon,Kazuo Tanaka
- 2Pe037 Synthesis of New Hybrid Materials Using Ionic Liquids Based on POSS Natsumi Yamada,Masayuki Gon,Kazuo Tanaka
- 2Pf038 Preparation of photo-solidification electrically conductive polymer using graphene <u>Alvin Lim Teik Zheng</u>, Yoshito Andou
- 2Pe039 Fabrication of the proton conductive material composed of ionic liquids and filler for PEFC at low humidity operation Haruki Nakazaki,Keisuke Tabata,Yukina Suzuki,Toshihiko Arita,Akito Masuhara
- 2Pf040 Preparation of bio/artificial composite by marine life and conductive polymer and application for device Kyoka Komaba,Hiromasa Goto
- 2Pe041 Peptide beta-sheets/silver ion complex for antibacterial silk fabric without discolorment <u>Monika Tsunoda</u>,Hiroshi Yamagishi,Megumi Sumitani,Kentaro Tashiro,Yohei Yamamoto
- 2Pf042 Mechanical properties of organic-inorganic composites consisting of amphipathic polyester and hydroxyapatite Kohei Okuda,Tadashi Mizutani
- 2Pe043 Hybridization of Carboxyl-Functionalized Poly(phenylene sulfide) Derivatives with Inorganic Nanoparticles and Its Application to High Refractive Index Materials <u>Teru Takayama</u>,Seigo Watanabe,Kenichi Oyaizu
- 2Pf044 Development of specific nanostructure from diblock polypeptide amphiphiles with Lysine and Leucine with anionic polyoxometalate. Takayuki Tanaka,Yuya Tanimura,Keita Kuroiwa
- 2Pe045 Physical properties of Phosphorylated poly(ethylene-co-vinyl alcohol) <u>Muneharu Kurosaki</u>,Yukihiro Kishimoto,Takumi Okihara

2Pf046 Hydrogen generation using organic photocatalysts consisting of polydiacetylene nanocrystals <u>Tsunenobu Onodera</u>,Hidetoshi Oikawa

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 2Pe051 Relationship between morphology and expression of pDNA complex by muscular injection <u>Shoichiro Asayama</u>,Yuki Kobayashi,Kei Nirasawa,Yoichi Negishi
- 2Pf052 Evaluation on gene transfection to cells using nucleic-acids-loaded polyplexes through coordination bond with polymers having zinc complexes and oligo(ethylene glycol)s <u>Erika Nasu</u>,Sayaka Kubo,Remi Watanabe,Shigehito Osawa,Hidenori Otsuka
- 2Pe053 Investigation of pharmacokinetics of DNA quadruplex mesogels injected to mouse tail vein <u>Daichi INUI, Kohei TATSUMI, Yuta YOSHIZAKI, Yuichi OHYA, Akinori KUZUYA</u>
- 2Pf054 Boron neutron capture therapy using drug delivery systems composed of poly(vinyl alcohol) and D-4-boronophenylalanine <u>Kakeru Konarita</u>,Takahiro Nomoto,Kaito Kanamori,Minoru Suzuki,Makoto Matsui,Yutaka Miura,Nobuhiro Nishiyama
- 2Pe055 Preparation of TiO2 nanoparticles-entrapped polyion complex micelles bearing ROSresponsive functional groups Mio Tsuji,Yukiya Kitayama.Eiji Yuba.Atsushi Harada
- 2Pf056 Synthesis of polyoxazoline-modified albumin as a plasma expander for animals <u>Wataru Okamoto</u>,Tomone Usui,Mitsutomo Kohno,Kazuaki Taguchi,Teruyuki Komatsu
- 2Pe057 Synthesis of hemoglobin-albumin cluster incorporating protoporphyrin IX as a photosensitizer for cancer treatment <u>Taiga Yamada</u>,Teruyuki Komatsu
- 2Pf058 Near-Infrared Photothermal Nanoparticles for Manipulation of Thermo-Sensitive Ion Channels of Neuron Wei-Hsu Chen, Taiki Onoe, <u>Masao Kamimura</u>

E. POLYMERS AND ENVIRONMENT

- 2Pe061 Effect of chemical composition on the hydrolysis reaction of polyurethane by carbonic acid
 - <u>Suguru Motokucho</u>,Kohki Hashimoto,Ryota Oshima
- 2Pf062 Effect of cross-linking density for hydrolysis reaction of cross-linked polyurethane by carbonic acid Ryota Oshima,Suguru Motokucho
- 2Pe063 Development of reactive polymer materials for separation and recovery of platinum group metals <u>Naoya Kaneko</u>,Masayuki Nakagawa,Tatsuo Taniguchi,Takashi Karatsu,Ryuhei Motokawa,Hirokazu Narita
- 2Pf064 Molding and mechanical properties of hybrid fiber reinforced composite material using a new compatibilizer(iPP-PAA) Tomoya Kawarada,Takayuki Tsukegi,Osamu Yoshimura
- 2Pe065 Challenge to the weight reduction of automotive parts by RTM method using biomass fiber as reinforcement Shougo Fujita,Takayuki Tsukegi,Osamu Yoshimura
- 2Pf066 Photo-excited relaxation processes of non-conjugated native lignin derivatives prepared from different wood species. Yuka Morishige,Mitsuru Aoyagi
- 2Pe067 Development of industrial waste filled polymer composite using olive pomace and marble sludge Tessei Kawano,Yoshito Andou,Esra YEL

F. INDUSTRIAL POLYMERS AND TECHNOLOGY

2Pe071 Examination of spinning conditions for silicone-modified polyimide nanofibers <u>Toshihisa Tanaka</u>,Shingo Yamashita,Shinji Irifune,Daisuke Noda,Masaki Tanaka

2Pf072	Preparation and physical properties of transparent acryl / glass cloth composites with high tensile strength
	Kosuke Kondo, Ryo Yamaguchi, Hideki Sugimoto, Shogo Nobukawa, Katsuhiro Inomata
2Pe073	Surface Modification of Polypropylene Non-woven Fabric by Photooxidation with Chlorine Dioxide
	<u>Keita Yamamoto</u> ,Haruyasu Asahara,Tsuyoshi Inoue
2Pf074	Preparation and physical properties of transparent alumina / cyclic olefin copolymer hybrid materials
	<u>Kaito Suzuki,</u> Haruka Yoneki,Hideki Sugimoto,Shogo Nobukawa,Katsuhiro Inomata
2Pe075	Development of multiblock copolyimide with oligoisobutylene unit in main chain <u>Naoki Matsuda</u> ,Ryohei Ishige,Shohei Hara,Shintarou Fujitomi,Yooichiroh Maruyama,Mitsuru Ueda,Shinji Ando,Tomoya Higashihara
2Pf076	Preparation and physical properties of flexible acrylic / alumina transparent hybrid materials using surface graft polymerization <u>Nanaho Shirota</u> ,Taro Usami,Hideki Sugimoto,Shogo Nobukawa,Katsuhiro Inomata
2Pe077	Physical properties of PEEK composite reinforced by carbon fiber and multiwall carbon nanotube Yoshiki Takata,Daichi Yamamoto, <u>Takumi Okihara</u>
2Pf078	Preparation and Physical Properties of silica-containing PMMA / PVB transparent hybrid materials Nobue Kojima, <u>Hideki Sugimoto</u> ,Shogo Nobukawa,Katsuhiro Inomata

Fri. May 28 Poster3Pab(Remo) Presentation Time <a = 9:30~10:25> <b = 10:25~11:20>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

3Pa001	Anionic polymerization of alkyl acrylates initiated by N-heterocyclic carbene and subsequent ring-closing <u>Yuki Muramatsu</u> ,Akinori Takasu
3Pb002	One-pot synthesis of sequence-controlled oligomers by means of living anionic addition reaction <u>Kazuki Takahata</u> ,Raita Goseki,Takashi Ishizone
3Pa003	Synthesis of sequence-controlled oligomer composed of 1,1-diphenylethylene derivatives by living anionic addition reaction <u>Tomohiko Nishijima</u> ,Kazuki Takahata,Raita Goseki,Takashi Ishizone
3Pb004	Anionic polymerization of styrene derivatives carrying 1,3-dioxolane skeletons at para position Kana Miyata,Kazuki Takahata, <u>Raita Goseki</u> ,Takashi Ishizone
3Pa005	Evaluation of self-alternating polymerizability of AB typed monomer having two vinyl groups with different reactivity <u>Yoshito Itaya,</u> Hamin Kim,Raita Goseki,Takashi Ishizone
3Pb006	Anionic polymerization of 2-naphthyl 4-styryl ketone <u>Yuki Kamiya</u> ,Kana Miyata,Raita Goseki,Takashi Ishizone
3Pa007	Anionic Polymerization of 1-(4-vinylphenyl)-1-phenylethylene derivatives <u>Hamin Kim</u> ,Raita Goseki,Takashi Ishizone
3Pb008	Lewis pair polymerization of n-butyl acrylate using B(C ₆ F ₅) ₃ <u>Yuka Naganawa</u> ,Kazumasa Mori,Shin-ichi Matsuoka,Masato Suzuki
3Pa009	Anionic Polymerization of (Meth)acrylic Thioester Initiated by Alkoxides <u>Shuhei Nakagawa</u> ,Shin-ichi Matsuoka,Koji Takagi,Masato Suzuki
3Pb010	Design of Novel Living Anionic Polymerization Based on Reversible Chain-Transfer Mechanism with Active Proton <u>Natsumi OHIRA,</u> Mineto UCHIYAMA,Masami KAMIGAITO

- 3Pa011 Synthesis of Poly(thienylene vinylene) Having an Aryl Group in the Side Chain Based on the Environment-Friendly Polymerization Method Keitaro Kanno,Keiichiro Sato,Tomoya Higashihara
- 3Pb012 Synthesis of poly(thioether) degradable via efficient E1cB reaction: Polymerization by conjugate substitution and addition reactions Keito Hagiwara,<u>Yasuhiro Kohsaka</u>
- 3Pa013 Intramolecular transfer of Pd catalyst on acceptor benzo-fused ring dibromoarylene and A₂ + B₂ unstoichiometric Suzuki-Miyaura polycondensation <u>Sana KOBAYASHI</u>,Hajime SUGITA,Yoshihiro OHTA,Tsutomu YOKOZAWA
- 3Pb014 9,9-Diallylfluorenes with Styrene Skeletons: Synthesis and Polyaddition with dithiols via Spiro-Ring Formation Sae Tezuka,Akira Hiramatsu,Yasuhiro Kohsaka,Rie Yasuda,Miyauchi Shinsuke
- 3Pa015 Additive-controlled topology switching from cyclic to linear polymer <u>So MIYAZAKI</u>, Takeru KAMIGAWARA, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 3Pb016 Synthesis of Aromatic Poly(amide-imide)s by Thermal Polycondensations of Hemimellitic Acid and Aromatic Diamines <u>Ryoga Suzuki</u>,Kazuya Matsumoto,Mitsutoshi Jikei
- 3Pa017 Synthesis of perfluoroalkylene-containing polyarylene ethers <u>Kazuki Watanabe</u>,Tadashi Tsukamoto,Yuji Shibasaki,Yoshiyuki Oishi

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 3Pa021 Correlation between Mechanical Properties and Helix-sense of Single Polyaspartate Chain by Atomic Force Microscopy Tomonari Watanabe,Xiaobin Liang,Ken Nakajima,Hidemine Furuya
- 3Pb022 Mechanical Properties of Single α-Helical Poly(γ-benzyl L-glutamate) Chain by Atomic Force Microscopy Yuta Onozawa,Xiaobin Liang,Ken Nakajima,Hidemine Furuya
- 3Pa023 Investigation of the formation mechanism of hydrogel microspheres <u>Yuichiro Nishizawa</u>,Haruka Minato,Takumi Inui,Takayuki Uchihashi,Daisuke Suzuki
- 3Pb024 Controlled Ordered Structure of Liquid Crystalline Epoxy Resin using Layered Clay Interface

Hiroya Yamamoto, Saki Ota, Miyuki Harada

- 3Pa025 Shape Transition of Liquid Crystal Elastomers with Various Twisted Nematic Configuration
 - <u>Atsushi Joto</u>,Haruka Doi,Valerio Varano,Luciano Teresi,Kenji Urayama
- 3Pb026 Temperature effect of Strain-induced Crystallization in Slide-ring Gels. <u>Sohei Kawahara</u>,Chang Liu,Koichi Mayumi,Hideaki Yokoyama,Kohzo Ito
- 3Pa027 Synthesis of Triple Interpenetrating Polymer Networks by Sequential-Simultaneous Hybrid Method Using Polysiloxane with Silanol Residue Junta SANO,Shigeki HABAUE
- 3Pb028 Design of Ionic Silicone Elastomer/Titanate Nanosheet Nanocomposites <u>Hayato Nakamura</u>,Yohei Miwa,Takehito Ohya,Ami Hamajima,Takayuki Ban,Shoichi Kutsumizu
- 3Pa029 Effects of Metal Cation Type and Neutralization Degrees on Morphology and Mechanical Properties of Ionic Silicone Elastomers <u>Rina Sawada</u>,Yohei Miwa,Takehito Ohya,Shoichi Kutsumizu
- 3Pb030 Synthesis and properties of silica-dispersed NIPAM gel via intramolecular condensation of reactive polysiloxane with silanol residue <u>Daisuke SATO</u>,Junta SANO,Yuuki TANAKA,Shigeki HABAUE

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

3Pa031 In-situ observation by X-ray computed tomography for the chain structure of magnetic elastomers Mayuko Watanabe,Yoshihiro Takeda,Takayuki Maruyama,Akihisa Takeuchi,Masayuki Uesugi,Motohiro Suzuki,Mika Kawai,<u>Tetsu Mitsumata</u>

3Pb032	Mechanical and optical evaluation of structural colored elastomers with amorphous structure formed by highly concentrated silica particles <u>Daiki MIYAKE</u> ,Fumio ASAI,Mitsuo HARA,takahiro SEKI,Yukikazu TAKEOKA
3Pa033	Preparation of mesoporous silica thin films modified with hygroscopic groups <u>Atsuki Kodama</u> ,Mitsuo Hara,Shusaku Nagano,Takahiro Seki
3Pb034	Synthesis of polymer gels with homogeneous network structure by photodimerization between the terminations of tetra-branched poly(N-isopropylacrylamide) <u>Yuria Otsuka</u> ,Ikuya Ohshima,Xiang Li,Taiki Hoshino,Mitsuo Hara,Takahiro Seki,Yukikazu Takeoka
3Pa035	Analysis of mechanical properties and thermal deformation behavior of liquid crystalline elastomer containing gold-coated fine particles <u>Takumi Shimono</u> ,Reina Nakamura,Haoxuan GUO,Hiroyuki Aota,Takahiro Yamamoto,Hirosato Monobe
3Pb036	Synthesis and Physical Properties of Thermo-sensitive gel particles with Controlled Network Structure <u>Yuka Hiei,</u> Ikuya Ohshima,Taiki Hoshino,Mituo Hara,Takahiro Seki,Yukikazu Takeoka
3Pa037	Aggregation of heat-responsive gel particles by electrostatic interaction and characterization <u>Tomohito ENOMOTO</u> ,Shinji ABE,Tetsu MITSUMATA,Norio TSUBOKAWA,Takeshi YAMAUCHI
3Pb038	Aggregation and Gel Adhesion Behaviors of Polyacrylamide in the Presence of Ruthenium Ions <u>Yusuke Kiuchi</u> ,Aki Goto,Yuichiro Kobayashi,Akira Harada,Hiroyasu Yamaguchi
3Pa039	Preparation of Hollow-type Spherical Bacterial Cellulose Gels Encapsulating Poly(N- Methacryloylglycine) Gels <u>Daisuke Sawaguchi</u> ,Toru Hoshi,Takao Aoyagi
3Pb040	Polysaccharide gels responding to temperature and pH <u>Koumei Harajiri</u>
3Pa041	Evaluation of drying properties of hydrogels mimicking the structure of desiccation- tolerant organisms <u>Kayo Migita</u> ,Shunsuke Nagahama,Shigeki Sugano
3Pb042	Thermo-responsive structural colored spherical porous hydrogel acquired from spherical colloidal crystal <u>Tomoya Hayashi</u> ,Yukikazu Takeoka,Mitsuo Hara,Takahiro Seki
3Pa043	Preparation and characterization of gelatin gel with inorganic surface layer for drug carriers <u>Yusuke KADOKURA</u> ,Syuuhei KOMATSU,Akihiko KIKUCHI
3Pb044	Preparation of PEG-grafted degradable hydrogels with low swelling behavior at physiological temperature <u>Naoki Kamei</u> ,Tatsuki Kamiya,Syuuhei Komatsu,Akihiko Kikuchi
3Pa045	Development of Hydrogels using Tetra-functional Crosslinker that Have Azobenzene Moiety Jun MIYOSHI,Kenro TOTANI,Toshiyuki WATANABE
3Pb046	Characterization of poly(substituted methylene)s with azobenzene side-chains <u>Chikara Kawakami</u> ,Mitsuo Hara,Shusaku Nagano,Yoshitaka Yorimoto,Hiroaki Shimomoto,Eiji Ihara,Takahiro Seki
3Pa047	Relationship between mechanical properties and responsiveness of photo-responsive materials based on isomerization of azobenzene <u>Yuki Shimizu</u> ,Junsu Park,Motofumi Osaki,Hiroyasu Yamaguchi,Akira Harada,Yoshinori Takashima
3Pb048	Supramolecular gelation and photoresponsive properties of tartrates containing azobenzene moiety <u>Manami Kobayashi</u> ,Kazuhiro Yabuuchi,Masaya Moriyama
3Pa051	Step-π-conjugated polymers (147) Synthesis of macromolecular wire consisting of blocks with different energy levels. <u>Kota Tanaka</u> ,Haoxuan Guo,Hiroyuki Aota

3Pa071	Aqueous one-pot chemoenzymatic synthesis of glycopolymers from unprotected sugars Tomonari Tanaka Avane Matsuura
	D. BIOPOLYMERS AND BIORELATED POLYMERS
3Pb068	Investigations of ionic transport mechanism of polyether-based polymer electrolytes for all-solid-state batteries <u>Yui Otake</u> ,Yuji Yokomaku,Yuna Okabe,Hibiki Miyauchi,Masayoshi Watanabe,Shiro Seki
3Pa067	Properties of Solid Polymer Electrolyte Using Exomethylene-Ethylene Carbonate Yuka Okuda, <u>Takahiro Uno</u> ,Masataka Kubo,Takahito Itoh
3Pb066	Lithium ion conductive characteristics of nanofiber-based poly(ethylene carbonate) electrolyte membranes with high-salt concentrations <u>Nana Terasoba</u> ,Manabu Tanaka,Hiroyoshi Kawakami
3Pa065	Effect of addition of lithium nitrate on battery properties of polymer electrolytes <u>Zhenxing Cui</u> ,Shoichi Inoue,Hassoun Jusef,Yoichi Tominaga
3Pb064	Analysis of particular ionic dissolution in polycarbonate-based electrolytes <u>Wei Tan</u> ,Yoichi Tominaga
3Pa063	Preparation and characterization of poly(ethylene carbonate)/cellulose composite electrolytes <u>Taiga Fukuda</u> ,Yoichi Tominaga
3Pb062	Preparation and properties of polycarbonate-based composite electrolytes filled with boehmite nanofiber <u>Shunsuke Miura</u> ,Akira Saito,Yoichi Tominaga
3Pa061	Measurement of ionic self-diffusion coefficients of polycarbonate-based electrolytes using pulsed-field gradient NMR <u>Ayana Takaoka</u> ,Yoichi Tominaga
3Pa059	Step-π-conjugated polymers (152) Synthesis of amphiphilic macromolecular wire using pseud-living polymerization <u>Yusuke Uda</u> ,Haoxuan GUO,Hiroyuki Aota
3Pb058	Induced smectic E phase in binary polymer blends of in side-chain liquid crystal polymers. <u>Tatsunaga Nakajima</u> ,Naoki Hida,Takahiro Seki,Shusaku Nagano
3Pa057	Step-π-conjugated polymers (153) Ferrocene and perylene introduced macromolecular wire bonding to Au electrode <u>Takumu Yanai,</u> Haoxuan GUO,Hiroyuki Aota
3Pb056	Step-π-conjugated polymers (148) Photoinduced electron transfer evaluation of macromolecular-wire with donor and acceptor at terminals <u>Daisuke Kitayama</u> ,Haoxuan GUO,Hiroyuki Aota
3Pa055	Step-π-conjugated polymers (154) Ferrocene introduced macromolecular wire bonding to Au electrode <u>Yuga Shibaike</u> ,Haoxuan GUO,Hiroyuki Aota
3Pb054	Step-π-conjugated polymer (155) Preparing a macromolecular device on Au electrode <u>Yuriko Takemura</u> ,Haoxuan GUO,Hiroyuki Aota
3Pa053	Introducing proton conductivity to a side-chain liquid crystalline polymer and photoalignment <u>Kazuya Hirata</u> ,Kota Suetsugu,Fangfang Wang,Yuki Nagao,Takahiro Seki,Shusaku Nagano
3Pb052	Step-π-conjugated polymers (151) Synthesis of amphiphilic macromolecular wires using energy levels Difference and elucidation of charge transfer process <u>Mitsuhiro Funo</u> ,Haoxuan GUO,Hiroyuki Aota

- 3Pa071 Aqueous one-pot chemoenzymatic synthesis of glycopolymers from unprotected sugars <u>Tomonari Tanaka</u>, Ayane Matsuura
 3Pb072 Synthesis of Network Polysaccharides from Water-soluble Chitosan and Carboxylate-
- 3Pb072 Synthesis of Network Polysaccharides from Water-soluble Chitosan and Carboxylateterminated Maltooligosaccharide <u>Aina Nakamichi</u>,Seiya Kitasono,Kazuya Yamamoto,Jun-ichi Kadokawa
- 3Pa073 Synthesis of monomer and polymers bearing water-soluble activated ester groups which are stable in water <u>Sotaro Tsuji</u>,Kazuma Kobayashi,Tomonari Tanaka

- 3Pb074 Synthesis of Chitin Naphthoate Derivatives in Ionic Liquids and their Properties <u>Kaho Kohori</u>,Kazuya Yamamoto,Jun-ichi Kadokawa
- 3Pa075 Investigation of immunosuppressants by sialic acid-containing glycopolymers. <u>Takato Ishida</u>, Takahiro Oh, Masanori Nagao, Yu Hoshino, Yoshiko Miura
- 3Pb076 Development of a rapid synthesis method for immunoregulatory sialyl sulfated oligosaccharides Yuki Ito,Keiji Numata,Masashi Ohmae

Poster3Pcd(Remo) Presentation Time <c = 12:30~13:25> <d = 13:25~14:20>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 3Pc001 Anionic polymerization of a-methylstyrene derivatives using proton abstrastion <u>Daisuke Tanioka</u>,Kaoru Adachi
- 3Pd002 Synthesis and Polymerization of Cyclic Vinyl Monomers with exo-Methylene Group Derived from Naturally-Occurring Cyclic Ketone <u>Yuki UCHIYAMA</u>,Mineto UCHIYAMA,Mitsuo HARA,Tomoyuki IKAI,Takahiro SEKI,Eiji YASHIMA,Masami KAMIGAITO
- 3Pc003 Living cationic polymerization of various α-methyl vinyl ethers <u>Kouhei Watanabe</u>,Takeshi Namikoshi,Shinji Watanabe
- 3Pd004 Design of Cationic RAFT Polymerization Using Various exo-Methylene-Type Chain-Transfer Agents and Precision Polymer Synthesis Takavuki TANIMOTO, Mineto UCHIYAMA, Masami KAMIGAITO
- 3Pc005 Photocontrolled Cationic and Radical Polymerization Using Acridinium Salt as Photoredox Catalyst Marina MATSUDA, Mineto UCHIYAMA, Masami KAMIGAITO
- 3Pd006 Controlled Polymerization of Silyl Isopropenyl Ethers: Cationic Polymerization and Aldol GTP

Naoki FUJIWARA, Mineto UCHIYAMA, Masami KAMIGAITO

- 3Pc007 Controlled Cationic Polymerization of Cyclic Isopropenyl Ether Derived from Naturally-Occurring Furfural <u>Ryoya KAMIKI</u>,Marina MATSUDA,Yukihiro MURAKAMI,Takenori NISHIDA,Mineto UCHIYAMA,Masami KAMIGAITO
- 3Pd008 Chain-End Functionalization in Controlled Cationic Alternating Copolymerization of Vinyl Ethers and Conjugated Aldehydes: Synthesis of Degradable Telechelic Polymers with Alternating Sequences Tomoki Nara,Arihiro Kanazawa,Sadahito Aoshima
- 3Pc009 Acceleration by UV irradiation of metal-free living cationic polymerization using diaryliodonium salts as organic Lewis acid catalysts <u>Yuji Mishima</u>,Rui Haraguchi,Arihiro Kanazawa,Sadahito Aoshima
- 3Pd010 Cationic copolymerization of various bulky enol ethers: Alternating and/or controlled copolymerization with *o*-phthalaldehyde <u>Keisuke Hayashi</u>,Arihiro Kanazawa,Sadahito Aoshima
- 3Pc011 The thermal and optical properties of poly(tetraphenylsilarylenesiloxane) derivatives having cardo-structure in the main chain <u>Atsuyuki Miyajima</u>,Ruri Okura,Tsukasa Ichikawa,Nobukatu Nemoto
- 3Pd012 Synthesis of polythiourethanes from cyclic sulfur <u>Akiyoshi Horiguchi</u>,Yuki Yamagishi,Yuichiro Kobayashi,Hiroyasu Yamaguchi
- 3Pc013 Polycondensation of tetra azacalixarene triazine dichloride with amino group-containing PDMS

<u>Ryota Shibata</u>, Tadashi Tsukamoto, Yuji Shibasaki, Yoshiyuki Oishi

- 3Pd014 Synthesis of low dielectric constant polycyanurates with alicyclic structure <u>Kenta Ishizuka</u>,Tadashi Tsukamoto,Yuji Shibasaki,Yoshiyuki Oishi
- 3Pc015 Direct Synthesis of Silylether–Carbosilane Alternating Copolymers Using Borane Catalyst <u>Naoki Yoshida</u>,Huie Zhu,Masaya Mitsuishi

Novel synthesis of polybenzothiazoles by oxidative cyclopolymerization of aromatic 3Pd016 diamines, aromatic dialdehydes, and element sulfur Masaru Yoneyama, Takeshi Yamanobe, Keita Nakamura Synthesis and properties of polysiloxane derivatives with ether bonds in the main chain 3Pc017 Tsukasa Ichikawa, Sayo Mugikura, Nobukatsu Nemoto Synthesis and chiral recognition ability of star-shaped optically active polyacetylenes 3Pc021 Shota Mino, Masahide Goto, Hiromitsu Sogawa, Fumio Sanda Sequence effect of poly(acrylic acid) blocks on stimuli-responsive property of core-3Pd022 crosslinked star polymers Hiroomi Kitajima, Shohei Ida, Shin-ichi Yusa, Shokyoku Kanaoka Characteristic Thermoresponsive Behavior of Multiarm Star Poly(N-isopropylacrylamide) 3Pc023 with Various Functional End Structures Shimon Matsumoto, Shohei Ida, Shokyoku Kanaoka Design of Zwitterionic Polymers with 4-Armed Structure and Their Photoresponsive 3Pd024 Gelation Kurumi Fukao, Akifumi Kawamura, Takashi Miyata Synthesis and thermoresponsive properties of novel dendrimers with an oxazoline unit on 3Pc025 the surface Makoto Kishi,Keigo Aoi Control of the end groups of hyperbranched polyphenylene by means of unstoichiometric 3Pd026 A₂ + B₃ Suzuki-Miyaura polycondensation through intramolecular catalyst transfer. <u>Ryusuke SHIMADA</u>,Yuuki TAKAHASHI,Hajime SUGITA,Yoshihiro OHTA,Tsutomu YOKOZAWA Synthesis and properties of well-defined, end-functionalized hyperbranched polyamide 3Pc027 Hiroki Kobayashi, Yoshihiro OHTA, Tsutomu YOKOZAWA Synthesis and surface characterization of cyclic polycaprolactone bearing with 3Pd028 perfluoroheptyl group Kota Manabe, Kenji Sugiyama Synthesis of hyperbranched polyimides from sterically-hindered asymmetric triamine and 3Pc029 dianhydride

Shu Tsushima,Kazuya Matsumoto,<u>Mitsutoshi Jikei</u>

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 3Pc031 Synthesis of Ternary Semi-IPN Gels via Simultaneous Method with Polysiloxane Containing Silanol Residue <u>Reina Tomita</u>,Junta Sano,Tatsuya Tsunoda,Shigeki Habaue
- 3Pd032 Synthesis of silica-dispersed-type NIPAM gel using reactive polysiloxane wih dendron unit <u>Minghao CHEN</u>,Junta SATO,Junta SANO,Shigeki HABAUE
- 3Pc033 Structure-property relationship of acrylamide-based hydrogels on surface adhesiveness <u>Yuto Nakano</u>,Ying Gao,Aya Akimoto,Yuji Ohta,Xiang Li,Mitsuhiro Shibayama,Nobuyuki Tanaka,Yo Tanaka,Ryo Yoshida,Takafumi Enomoto
- 3Pd034 Rheological properties of Poly(vinyl alcohol) Gels with Transient Cross-links <u>Takuro Taniguchi</u>,Kenji Urayama
- 3Pc035 Design of Anisotropic Hydrogels by Radical Polymerization in the Presence of Oriented Inorganic Nanoparticles under Magnetic Field <u>Yuki Ishida</u>,Shohei Ida,Jeyadevan Balachandran,Shokyoku Kanaoka
- 3Pd036 Correlation between Morphology under Stretching and Mechanical Properties of Ionic Polyisoprene Elastomers Shinichiro Hamajima,Yohei Miwa,Masatoshi Tsunoda,Shoichi Kutsumizu
- 3Pc037 Position dependence of microphase-separated structure of polyurethane adhesive of single lap joint under shear deformation <u>Kakeru Obayashi</u>,Chien-Wei Chu,Ken Kojio,Atsushi Takahara

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

3Pd038 Anisotropic photo-triggered mass transfer in photoaligned liquid crystal Azobenezene polymer films <u>Reona Kanazu</u>,Issei Kitamura,Mitsuo Hara,Syusaku Nagano,Takahiro Seki

3Pc039	Photo- and Force-Controlled Helical Axis Alignment in Chiral Liquid Crystal Polymers <u>Yudai Fuwa</u> ,Maki Yanagihara,Kyohei Hisano,Osamu Tutumi
3Pd040	Mechano-optical behavior of polymer-dispersed liquid crystal elastomers <u>Yo Nakano,</u> Kyouhei Hisano,Osamu Tsutsumi
3Pc041	Development of liquid crystalline perylene bisimide derivatives bearing a zwitter ionic moiety
	<u>Satoshi Sugiyama</u> ,Masahiro Funahashi
3Pd042	New design of a liquid-crystalline zwitterion monomer for creating a gyroid nanostructured soft membrane having a 3D continuous proton conduction pathway <u>Misato Takeyama</u> ,Hikaru Ohshiro,Asako Maekawa,Tsubasa Kobayashi,Takahiro Ichikawa
3Pc043	Rheology analysis of blue phases and polymer-stabilized blue phases under potential gradient. <u>Yuki Ito,</u> Jun Yoshioka,Koji Hukao
	-
3Pd044	Extension of π -conjugated unit and bulk photovoltaic effect in ferroelectric liquid crystals bearing a lactate ester moiety <u>Yuji Matoba</u> ,Masahiro Funahashi
3Pc045	Liquid-Crystalline Properties of Side-Chain Liquid-Crystalline Polymers Having Phenyl Benzoate Moieties Synthesized by Atom Transfer Radical Polymerization <u>Daisuke Taguchi</u> ,Shoichi Kubo,Atsushi Shishido
3Pd046	Supramolecular Copolymerization in Liquid Crystalline Phase <u>Daiki Morishita,</u> Xujie Zhang,Yoshimitsu Itoh,Takuzo Aida
3Pc047	Fabrication of shape memory polymer actuator that responds to multiple stimuli <u>Motoki NOZAKI</u> ,Tetsu MITSUMATA,Norio TSUBOKAWA,Takeshi YAMAUCHI
3Pd048	Creation of self-catalyzed vitrimer by using polyesters bearing amino side groups <u>Takaya Inaba</u> ,Mikuhiro Hayashi,Akinori Takasu
3Pc049	Structural Analysis of Dynamic Network in Deformed Thermoplastic Elastomer using Delaunay Triangulation <u>Haonan Liu</u> ,Xiaobin Liang,Ken Nakajima
3Pd050	Preparation and properties of self-healing castor oil based polyurethane utilizing thermally reversible Diels-Alder reaction <u>Nobuharu Yatabe</u> ,Mitsuhiro Shibata,Naozumi Teramoto
3Pc051	Step-π-conjugated polymers (149) Photoinduced electron transfer evaluation of system with a donor and an acceptor at the terminal <u>Maki Tanaka</u> ,Haoxuan GUO,Hiroyuki Aota
3Pd052	Preparation of Microspheres of Azobenzene-based Photochromic Amorphous Molecular Materials and Their Photomechanical Behaviors <u>Hajime Nigorikawa</u> ,Motona Matsubara,Hideyuki Nakano
3Pc053	Synthesis of amino acid-derived latent curing reagents having a disulfide bond and their application to photo-reactive materials <u>Masahiro Furutani</u> ,Arata Tanaka,Kako Maeno
3Pd054	Step-π-conjugated polymers (150) Synthesis of branched polymers for antenna-reaction centers of artificial photosynthesis <u>Haruki Kai,</u> Haoxuan GUO,Hiroyuki Aota
3Pc055	Photoalignment and photo patterning of liquid crystal polymeric film containing in-situ- formed Schiff-base end groups <u>Ayaka Sakai</u> ,Toshiki Nishizono,Mizuho Kondo,Nobuhiro Kawatsuki
3Pd056	Hybrid photoinduced orientation of liquid crystalline copolymer films with Schiff base and biphenylcarboxylic acid side groups <u>Takehiro Uematsu</u> ,Nanaka Doi,Mizuho Kondo,Nobuhiro Kawatsuki
3Pc057	Deformation Analysis Using Chiral-Liquid-Crystal Polymer Particles <u>Naoya Fukui,</u> Tomoki Shigeyama,Kyohei Hisano,Osamu Tsutsumi
3Pd058	Fabrication of Ruthenium Light-Emitting Electrochemical Cells using Polymer Gel with Ionic Liquid <u>Kazuto Ogura</u> ,Atsushi Aoki
3Pc061	Aromatic polymers as solid polymer electrolytes for solid-state lithium-ion batteries <u>Momoka Umeki</u> ,Kan Hatakeyama,Kenichi Oyaizu

- 3Pd062 BIAN Based Low Cost and Durable Polymer Cathode Materials for Li Air Battery Application
 - Badam Rajashekar,Shibuya Mayu,Bharat Srimitra Mantripragada,Noriyoshi Matsumi
- 3Pc063 Crosslinked BIAN-Based Polymer Matrices to Stabilize Silicon Anode in Lithium Ion Secondary Batteries Agman Gupta,Badam Rajashekar,Norivoshi Matsumi
- 3Pd064 BIAN Based Covalent Organic Framework as Anodic Active Material in Lithium-ion Battery

<u>Bharat Srimitra Mantripragada</u>,Badam Rajashekar,Noriyoshi Matsumi

- 3Pc065 Bio-derived Lithium-ion Battery Anode Material for Fast Charging and Long-cycle Life <u>Kottisa Sumala Patnaik</u>,Yueying Peng,Badam Rajashekar,Tatsuo Kaneko,Noriyoshi Matsumi
- 3Pd066 Fabrication and evaluation of anion conductive polymer electrolyte membranes for water electrolysis

<u>Yuri Nara,</u>Manabu Tanaka,Hiroyoshi Kawakami

- 3Pc067 Effect of Conjugated Polymer Support on Electrocatalytic Activity of IrO2 Nanoparticles <u>Yusaku Asai</u>,BadamRajashekar Badam,Noriyoshi Matsumi
- 3Pd068 Development of tape type hydrogen sensor operating at room temperature <u>Yuma SATO</u>,Hirofumi MIYAKE,Takahiro MURAKAMI,Shuji HARADA,Tetsu MITSUMATA,Norio TSUBOKAWA,Takeshi YAMAUCHI

D. BIOPOLYMERS AND BIORELATED POLYMERS

- 3Pc071 Preparation of Ionic Composite Materials from Scale-down Chitin Nanofibers <u>Takuya Hashiguchi</u>,Kazuya Yamamoto,Jun-ichi Kadokawa
- 3Pd072 Formation of Hydrogels by Introduction of Several Sugar Residues on Scaled-down Chitin Nanofibers Ryuta Watanabe,Kazuya Yamamoto,Jun-ichi Kadokawa

<u>Kyuta watanabe</u>,Kazuya Tamamoto,Jun-ichi Kauokawa

- 3Pc073 Sustained release mechanism of CPC from the complex of CPC and phosphorylated pullulan <u>Kaho Asano</u>, Takumi Okihara
- 3Pd074 Preparation of disulfide-crosslinked microparticles derived from a trehalose derivative having two mercapto groups and enzymatically synthesized oligocysteine <u>Tetsu Sakai</u>,Mitsuhiro Shibata,Naozumi Teramoto
- 3Pc075 Direct observation of one molecule of surface immobilization and hydrolase enzyme activity of glycosaminoglycans Kouta Imai,Atushi Hirose,Tosiaki Mori

Poster3Pef(Remo) Presentation Time <e = 14:30~15:25> <f = 15:25~16:20>

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 3Pe001 Cationic Ring-Opening Copolymerization of Cyclic Acetals and γ-Butyrolactone: For Sequence Control by Main-Chain Scrambling Reactions <u>Kana Takebayashi</u>,Arihiro Kanazawa,Sadahito Aoshima
- 3Pf002 Cationic Copolymerization of Vinyl Acetate with Cyclic Acetals or 1,3-Dioxolan-4-one: Copolymerization via Crossover Reactions Junichi Azuma,Arihiro Kanazawa,Sadahito Aoshima
- 3Pe003 Synthesis of ABC-type Periodic Terpolymer : Selective Cyclodimerization of Oxiranes and Aldehydes and Subsequent Controlled Cationic Copolymerization with Vinyl Monomers <u>Kazuya Maruyama</u>, Arihiro Kanazawa, Sadahito Aoshima
- 3Pf004 Cationic Copolymerization of 3-Alkoxyphthalide and Oxiranes <u>Yuka Takahashi</u>,Arihiro Kanazawa,Sadahito Aoshima
- 3Pe005 Cationic Co- and Terpolymerization of 1,3-Dioxa-2-silacycloalkanes and Vinyl Compounds, Cyclic Ethers, or Carbonyl Monomers: Synthesis of Polymers with Selective Degradability <u>Ryosuke Hada</u>,Arihiro Kanazawa,Sadahito Aoshima

3Pf006	Design of Initiating Systems for Stereospecific Living Cationic Polymerization of Vinyl Ethers <u>Hironobu Watanabe</u> , Arihiro Kanazawa, Sadahito Aoshima
3Pe007	Cationic Ring-Opening Polymerization of Dithio NCA <u>Reina Oki</u> ,Mei Uchiyama,Shin-ichi Matsuoka,Koji Takagi,Masato Suzuki
3Pf008	Living ring-opening polymerization of lactones under ambient condition induced by conjugate substitution reaction Keito Hagiwara, <u>Yasuhiro Kohsaka</u>
3Pe009	Alkali Metal Carboxylate-Catalyzed Ring-opening Polymerization of Epoxides <u>Tianle Gao,</u> Xiaochao Xia,Takuya Isono,Kenji Tajima,Toshifumi Satoh
3Pf010	Ring-opening polymerization of cyclic carbonate using polymer-supported alkali metal
	carboxylates <u>Itsuki Takahashi</u> ,Satoru Takagi,Takuya Isono,Takuya Yamamoto,Kenji Tajima,Toshifumi Satoh
3Pe011	Synthesis and properties of an optically active polyurethane bearing fluorene units in the main chain Thiri Song Hashuang Dai Masayashi Banda Tamaki Nakana
3Pf012	Zhiyi Song,Heshuang Dai,Masayoshi Bando,Tamaki Nakano Synthesis and structure of poly(benzene-1,4-diyl) derivatives bearing bulky side-chain
3P1012	groups
3Pe013	<u>Qingyu Wang</u> ,Zhiyi Song,Masayoshi Bando,Tamaki Nakano Synthesis and properties of optically active poly(fluorenevinylene) derivatives with linear
3Fe013	and hyperbranced structures <u>Pengfei Wu</u> ,Masayoshi Bando,Zhiyi Song,Tamaki Nakano
3Pf014	Synthesis and structure of poly(phenanthrene-9,10-diyl) <u>Masayoshi Bando,</u> Zhiyi Song,Tamaki Nakano
3Pe015	Synthesis and Properties of Polyconjugated Ester Ketones Composed of fluorene skeletones <u>Masatoshi Ohyama</u> ,Rie Yasuda,Shinsuke Miyauchi,Yasuhiro Kohsaka
3Pf016	Synthesis of poly(<i>N</i> -alkyl-2,7-carbazole) via catalyst-transfer polycondensation of triolborate salt monomer <u>Saburo Kobayashi</u> ,Mayoh Ashiya,Brian J. Ree,Takuya Isono,Takuya Yamamoto,Kenji Tajima,Toshifumi Satoh
3Pe017	Synthesis of linear poly(N-alkyl-3,6-carbazole) via Suzuki-Miyaura catalyst-transfer condensation polymerization of AB-type 3,6-substited carbazole monomer. <u>Mayoh Ashiya</u> ,Saburo Kobayashi,Brian Ree,Takuya Isono,Takuya Yamamoto,Kenji Tajima,Toshifumi Satoh
3Pe021	Pendant Microphase Separation of Random Copolymers for Nanostructure Control and Material Design Sahori Imai,Makoto Ouchi,Takaya Terashima
3Pf022	Synthesis of hydrogels with amphiphilic random copolymer micelles as crosslinking points
	Hiroaki Asai,Naomasa Kusuyama,Makoto Ouchi,Takaya Terashima
3Pe023	Precision Synthesis of Graft Copolymers Consisting of Polylactide Graft Chains and Thermoresponsive Poly(Vinyl Ether)s via Controlled Cationic Copolymerization <u>Yuya Asada</u> ,Arihiro Kanazawa,Sadahito Aoshima
3Pf024	Design, synthesis and properties of carbazole dendrimer with doublet-excited luminescent radical as core <u>Xiaotian Rui</u> ,Ken Albrecht
3Pe025	Development of TADF-assisted fluorescent film with solution-processable TADF dendrimer <u>Xinyan Li</u> ,Eri Hisamura,Ken Albrecht
3Pf026	Systematic synthesis and characterization of graft polymers with multicyclic side chains via cyclopolymerization of star-shaped macromonomers <u>Yoshinobu Mato</u> ,Maho Sudo,Takuya Isono,Takuya Yamamoto,Kenji Tajima,Hironori Marubayashi,Hiroshi Jinnai,Toshifumi Satoh
3Pe027	Synthesis of Hyperbranched Polymer via Ring-opening Alternating Copolymerization of Cyclic Anhydride and Epoxide <u>Ryota Suzuki</u> ,Xiaochao Xia,Takuya Yamamoto,J. Brian Ree,Takuya Isono,Kenji Tajima,Toshifumi Satoh

3Pf028 Self-Organization of Amphiphilic Poly(a-substituted acrylate)s Bearing Poly(ethylene glycol) Chain

Daiki Arai,Kohei Hashimoto,<u>Takahiro Uno</u>,Masataka Kubo,Takahito Itoh

3Pe029 Synthesis of multibranched polymers from trimethylsilyl protected poly(p-methylstyrene) <u>Kosuke Nakano</u>,Kaoru Adachi

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

- 3Pe031 Toughening effect of alicyclic epoxy thermoset modified with POSS containing flexible side chains Yosuke Hosaka,Kohei Yabuta,Miyuki Harada,Daisuke Tanida,Yoko Onji,Akihiro Sibamoto
- 3Pf032 Molecular Simulation of Damping Elastomers with Dangling Chains Koki Yoshitomi,Tsuyoshi Koga
- 3Pe033 Mechanical properties of homo-IPN acrylic elastomers with interpenetrating stretched and unperturbed chains
 - <u>Toshiki Ogawa</u>,Hayato Sakama,Syougo Nobukawa,Katuhiro Inomata
- 3Pf034 Physical Gelation of Polyacrylonitrile(PAN) Solution by Freezing and Thawing Method: Swelling Properties in PAN Gels Yutaka Tanaka,Daisuke Takenaka,Keigo Samoto
- 3Pe035 Preparation of movable cross-linked cellulose nanofiber composites and with its mechanical properties evaluation <u>Yuki Asaki</u>,Garry Sinawang,Motohumi Osaki,Taka-aki Asoh,Hiroyasu Yamaguchi,Akira Harada,Hiroshi Uyama,Yoshinori Takashima
- 3Pf036 Influence of the structure and concentration of crosslinkers on the tensile properties of polyacrylamide hydrogels Kousuke Kotani,Mitsuhiro Shibata,Naozumi Teramoto
- 3Pe037 DNA gel with near ideal 3D network structure and predictable rheological property <u>Masashi Ohira</u>,Takuya Katashima,Mitsuru Naito,Daisuke Aoki,Takamasa Sakai,Mitsuhiro Shibayama,Xiang Li

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 3Pf038 Meniscus Climbing of Near Infrared-responsive Shape Memory Polymer <u>Yui Tsunekawa</u>,Shin-ichi Yusa,Syuji Fujii,Yoshinobu Nakamura
- 3Pe039 Characterization of chiral oligo(*p*-phenylenevinylene) derivatives aimed at electroluminescence device <u>Masaki Kunihiro</u>,Masahiro Funahashi
- 3Pf040 The development of rotaxane-based supramolecular mechanophores showing reversible/irreversible change in their photoluminescent property <u>Tatsuya Muramatsu</u>,Yoshimitsu Sagara
- 3Pe041 Effect of DB24C8 Crosslinker in Temperature Responsive NIPAAm Network Polymer on the LCST Miho Yamagata,Kenjiro Onimura,Kazuhiro Yamabuki
- 3Pf042 Development of Highly Oil-absorbent Resin Having Secondary Ammonium Salt and Control of Swelling Degree Kenichiro Nagayama,Kenjiro Onimura,Kazuhiro Yamabuki
- 3Pe043 Grafting of poly(N-isopropylacrylamide) by atom transfer radical polymerization onto the surface of polyethylene composite prepared using scCO2 Natsuki Takizawa,Toru Hoshi,Takao Aoyagi
- 3Pf044 Effect of glassy membrane properties on Oxygen-binding response time and oxygenation life time in water of polymeric cobalt(II) salen complex membranes. <u>Haruki Funako</u>,Takayuki Suzuki
- 3Pe045 Preparation of the composite materials of the silane-coupled glass non-woven fabric containing polymer spiropyrans and evaluation of their photo-responsive adsorption of metal ions on chromaticity coordinates <u>Shuping Ji</u>,Takayuki Suzuki

3Pf046	Evaluation of the effect of hydrophobic crosslinking sites on pH-responsive color change of the polymer dye films by statistical method <u>Karen Kitano</u> , Takayuki Suzuki
3Pe047	The behavior of oxygen binding of the polymer cobalt(II) complexes coordinating with a thermally stable azobenzene in the Z-form as an axial base <u>Ayumi Negi</u> ,Takayuki Suzuki
3Pf048	Analysis of Periodic Phase-separated Structures Spontaneously Formed by Photopolymerization Using Scanning Light <u>Hirona Nakamura</u> ,Yoshiaki Kobayashi,Miho Aizawa,Norihisa Akamatsu,Shoichi Kubo,Atsushi Shishido
3Pe049	Polymeric Micelles with Super pH-Sensitive PEG-Detachment in Intratumoral Space Louise Hespel <u>,Keita Masuda,</u> Horacio Cabral,Kazunori Katakoka
3Pf050	Highly Stretchable and Designable Elastomer Film with Auxetic Channel Structure <u>Yukihide Tashiro</u> ,Hiroshi Endo
3Pe051	Force-Controlled Luminescence in Elastomers Containing Luminophores with Aggregation-Induced Emission Property <u>Rina Masaki</u> ,Kyohei Hisano,Osamu Tsutsumi
3Pf052	Novel molecular design for short-time development of photosensitive alicyclic polyimides based on the reaction development patterning <u>Momoko Komi</u> ,Yuichiro Tokoro,Toshiyuki Oyama,Daisuke Watanabe
3Pe053	Near infrared photoluminescence properties of locally functionalized single-walled carbon nanotubes synthesized by ortho-substituted aryl modification <u>Sadahito Naka</u> ,Tsuyohiko Fujigaya,Tomohiro Shiraki
3Pf054	Photoinduced orientation of liquid crystalline film with schiff base and its deactivation to UV light <u>Hinano Yamaguchi</u> ,Akari Ito,Yunosuke Norisada,Mizuho Kondo,Nobuhiro Kawatsuki
3Pe055	Induced highly ordered smectic phases in side-chain liquid crystal copolymers with a binary mesogen mixture Yuma Shibuya,Chika Ushiku,Naoki Hida,Takahiro Seki, <u>Shusaku Nagano</u>
3Pf056	Pollutant sensing by microporous optical resonator <u>Noriharu Tanji</u> ,Hiroshi Yamagishi,Ketaro Fujita,Yohei Yamamoto
3Pe057	Even-odd effects on the emission of soluble gold(I)-thiolate coordination polymers in solution Midori Murakami,Yukatsu Shichibu,Katsuaki Konishi
3Pf058	Effect of Host Liquid Crystal on Photophysical Molecular Reorientation of Oligothiophene- Doped Liquid Crystals. Junki Yokota,Kohsuke Matsumoto,Koji Usui,Atsushi Shishido
3Pe059	Photoinduced phase transition of compatible polymer blends of side-chain liquid crystalline polymers containing azobenzene mesogens <u>Takumi KOKUBO</u> , Tatsunaga NAKAJIMA, Naoki HIDA, Takahiro SEKI, Shusaku NAGANO
3Pe061	Fabrication of proton conducting membrane composed of acid-grafted polybenzimidazole copolymer <u>Hiroto Miura</u> ,Hoon Han,Yuki Motoishi,Naoki Tanaka,Tsuyohiko Fujigaya
3Pf062	Electrochemical properties of platinum alternative oxygen reduction catalyst for polymer electrolyte fuel cells composed of metallic phthalocyanine composite <u>Hiroki Matsumoto</u> ,Kento Arai,Tsukasa Ichikawa,Izuru Kobayashi,Nobukatsu Nemoto,Yudai Kitagawa,Kotaro Yoshioka,Masaji Akimoto
3Pe063	Fabrication and characterizations of acid / base blend polymer nanofiber composite membranes for high temperature and low humidity fuel cell operation <u>Kazuto Suzuki</u> , Manabu Tanaka, Hiroyoshi Kawakami
3Pf064	Evaluation of Silicon-based Anodic Electrode for Lithium Ion Secondary Battery Using Poly(vinylphosphonic acid) as Anodic Binder <u>Noriyuki Takamori</u> ,Tadashi Yamazaki,Rajashekar Badam,Noriyoshi Matsumi
3Pe065	Study of cathode binder materials for lithium-ion batteries using poly-carbonate based solid polymer electrolyte <u>Yang Sun</u> ,Yoichi Tominaga

- 3Pf066 Ion-conductive properties of polycarbonate-based electrolyte/lignin composites Zitong Liu,Yoichi Tominaga,Kazuhiro Shikinaka,Yuichiro Otsuka,Masaya Nakamura
- 3Pe067 Synthesis of novel poly(borosiloxane) binder with pyridyl group and stabilization of silicon anode in lithium ion batteries <u>Krishna Prasad Gannavarapu</u>,Badam Rajashekar,Noriyoshi Matsumi
- 3Pf068 Lithium Borate Type Polymer Derived from Caffeic Acid as Water Soluble Binder for Lithium Ion Battery Anode Anusha Pradhan,Badam Rajashekar,Noriyoshi Matsumi

D. BIOPOLYMERS AND BIORELATED POLYMERS

3Pe071 Effect of polymer side-chain structure and spacing on cold crystallization of water in polymer matrix

Chiaki Umakoshi, Toshiki Sonoda, Shingo Kobayashi, Masaru Tanaka

- 3Pf072 Impact of Polymer Chain End for Hydration Structure of Poly(2-methoxyethyl acrylate) <u>Shinnosuke Nishimura</u>,Tomouya Ueda,Daiki Murakami,Masaru Tanaka
- 3Pe073 Observation of the Hydrated Polymer Layer at PMEA/Water Interface by Frequency Modulation Atomic Force Microscopy Tomoki Otsuka,Shinnosuke Nishimura,Tomoya Ueda,Daiki Murakami,Masaru Tanaka
- 3Pf074 Synthesis of crosslinked MPC polymers with different hydrophobic anchoring moieties and the surface modification Kazuto Uchida,Tsukuru Masuda,Shintaro Hara,Madoka Takai
- 3Pe075 Protein adsorption behavior to poly (L-lactide-co-glycolide) -poly (1,5-dioxepan-2-one) multi-block copolymer Yoshiki Kaneda,Kazuya Matsumoto,Mitsutoshi Jikei,Masaki Hikida
- 3Pf076 Creation of degradable hydrogel surfaces with maintained PEG-grafts for removal of adsorbed protein layer Syuuhei Komatsu,Tatsuki Kamiya,Akihiko Kikuchi
- 3Pe077 Synthesis of urethane elastomers containing polyphosphoesters. <u>Yuma Fujita</u>,Yasuhiko Iwasaki