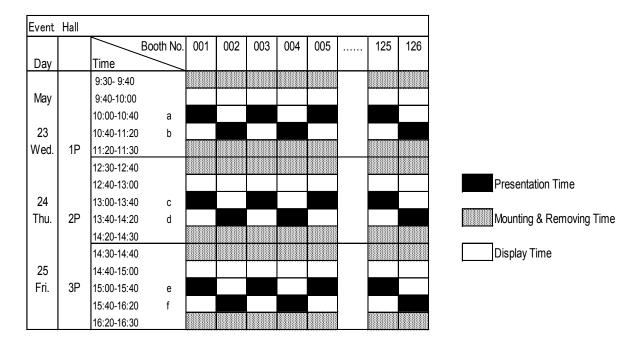
# Poster Presentation Time



## Wed. May 23

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

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

1Pa001	Synthesis of PVC hollow porous material <u>Takahiro Matsunaga</u> ,Kazuaki Yamamoto,Susumu Yamada,Takeshi Kaikawa
1Pb002	Physical ageing response of a polystyrene glass subjected to large stresses: the increase in fictive temperature <u>Yutaka Tanaka</u>
1Pa003	Relation between local dynamics and tensile properties of antiplasticized polycarbonate <u>Mai Maeda</u> ,Shogo Nobukawa,Katsuhiro Inomata
1Pb004	Molecular aggregation structure of poly(methyl methacrylate) based on in situ analysis methods in fatigue process <u>Kento Fukada</u> ,Tatsuya Kubozono,Shiori Masuda,Chigusa Nagano,Shuhei Nozaki,Ken Kojio,Atsushi Takahara
1Pa005	Temperature dependence of styrene oligomer(A-2500) by dynamic light scattering <u>Minato Sugisaki</u> ,Jun Fujimura,Itaru Tsukushi
1Pb006	The influence of high pressure hydrogen gas on the structure of solid-state polymers <u>Fumitoshi Kaneko</u> ,Hirotada Fujiwara,Shin Nishimura
1Pa007	The Xe sorption properties and Xe-129 NMR of glassy polymers at low temperatures <u>Hajime Ishitani,</u> Hiroaki Yoshimizu
1Pb008	Investigation on a formation process of poly(lactic acid) monoliths by light scattering method

Shima Saito, Hideko T. Oyama, Yuno Ukaji, Hiromu Saito

1Pa009 Gas sorption properties and local molecular mobility of poly 4-methyl-1-pentene Yusuke Nomura, Hiroaki Yoshimizu 1Pb010 Higher-Order Structure of Polybutylene Terephthalate by Terahertz and Infrared Spectroscopy Yumiko Yamamoto, Hiromichi Hoshina, Harumi Sato 1Pa011 Study on Intermolecular Interaction of Polydioxanone by Infrared and Terahertz Spectroscopies Natsumi Okazaki, Hiromichi Hoshina, Harumi Sato 1Pb012 Crystallization and development of transient domains of poly(p-phenylene sulfide) around glass transition temperature Yasutoshi Tanzawa, Mitsuo Ando Effects of Ring Size and Coverage on the Viscoelastic Behavior of Polyrotaxane Glass 1Pa013 Kazuaki Kato, Akihiro Ohara, Kaito Nemoto, Koichi Mayumi, Hideaki Yokoyama, Kohzo Ito 1Pb014 Synthesis of ABA triblock copolymer containing photo cross-linkable A blocks and photo cross-linking effects on morphorogy Isamu Kawarazaki, Mikihiro Hayashi, Akinori Takasu 1Pa015 Real-Time High-Resolution AFM of Crystallization Process of Isotactic Poly(methyl methacrylate) Monolayer under High Humidity Yuki Ono,Jiro Kumaki 1Pb016 Change in Molecular Aggregation State and Fracture Mechanism of Amorphous Polymer Films during Bulge Deformation Chigusa Nagano, Ava Fujimovo, Shiori Masuda, Chao Hung Cheng, Shuhei Nozaki, Hiohmi Watanabe,Ken Kojio,Astushi Takahara Clarification of kinetics of structure formation for poly(ɛ-caprolactone) in spin-coating 1Pa017 film-forming processes Jinkyu Park, Shun Miyamoto, Mami Goda, Junki Yamamoto, Shinichi Sakurai, Hiroyasu Masunaga, Takaaki Hikima, Sono Sasaki 1Pb018 Investigation of Edge-on/Flat-on type Lamellar Orientation in Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) Thin Films and Its Influential Factors Mami Goda, Shinichi Sakurai, Hideki Yamane, Hiroyasu Masunaga, Takaaki Hikima, Masaki Takata, Tomoyasu Hirai, Atsushi Takahara, Sono Sasaki 1Pa019 Analysis of conformational change in the crystal phase transition of cellulose Satoshi Nomura, Shin-ichiro Sato, Tomoki Erata Crystallization and Solid-state Structure of Isohexide-derived Polyesters 1Pb020 Hironori MARUBAYASHI, Yuji SHINOZUKA, Takaaki USHIO, Shuichi NOJIMA 1Pa021 Crystallization and Solid-state Structure of Substituted Poly(lactic acid) Having sec-Butyl Side Chains Ryo Mizukami, Hironori Marubayashi, Shuichi Nojima 1Pb022 Inclusion complex formation kinetics of poly(ethylene glycol) and alpha-cyclodextrins Ken Fujita, Norifumi Yamada, Kohzo Ito, Hideaki Yokoyama 1Pb024 The influence of annealing on toughness of polycarbonate Toshiki Sato, Shotaro Nishitsuji, Hiroshi Ito, Masaru Ishikawa 1Pa025 Photo plasticization of polymer matrix containing azobenzene Takuya Sumi, Syogo Nobukawa, Katsuhiro Inomata 1Pb026 Effects of Thermal History on Free Volume and Mechanical Properties of Amorphous Polymer Naoya Kurose, Hiroki Takeshita, Katsuhisa Tokumitsu 1Pa027 Syntheses and Optical Properties of Arsole-Fused Heteropentacenes Containing Chalcogen Atoms Toshiki Fujii,Susumu Tanaka,Hiroaki Imoto,Kensuke Naka 1Pb028 Effect of Chemical Structure, Molecular Chain Orientation on the Thermo-optic Coefficients and Refractive index of Polyimide Films Measured by Optical Interferometry. Megumi Fujita, Mari Harada, Ryohei Ishige, Shinji Ando

1Pa029	Deformation Behavior of Multi-Porous Polymer Film during Biaxial Stretching <u>Takahiko Kawai,</u> Mizuki Kataniwa,Shin-ichi Kuroda,Tomoyuki Nemoto,Shunsuke Koido
1Pb030	Luminescence and Slow Magnetic Relaxation of Lanthanide-based Metallopolymer <u>Takefumi Yoshida,</u> Masayoshi HIGUCHI
1Pa031	Tensile properties of poly(methyl methacrylate)-graft-poly(ethylene glycol) with lithium salt addition
	<u>Manami Tsuge</u> ,Ryouta Noba,Shogo Nobukawa,Katsuhiro Inomata
1Pa033	Molecular conformation of poly(L-lactic acid) and polyglycolic acid in fluoroalcohol <u>Yoshinori Suzuki</u> ,Takahiro Watanabe,Hiroki Kosugi,Moriya Kikuchi,Seigou Kawaguchi
1Pb034	Molecular dynamics study of poly(vinylidene fluoride) in solution <u>Toshiyuki Shikata</u> ,Ayana Tagawa,Hideo Horibe
1Pa035	Solution properties of pH-responsive amphoteric diblock copolymer <u>Koki Matsubara</u> ,Shin-ichi Yusa
1Pb036	Unusual photoresponsive behaviors of upper critical solution temperature of polymers in an azobenzene-doped liquid crystal Yuki Kawata, <u>Takahiro Yamamoto</u> ,Hideyuki Kihara,Yasuhisa Yamamura,Kazuya Saito,Kohji Ohno
1Pa037	Thermo-responsive behavior of amphoteric diblock copolymers composed of anion and cation
	Yuuki Kawata,Shohei Kozuka,Shin-ichi Yusa
1Pb038	Main chain structure of poly(substitute methylene)s depending on their tacticity <u>Kazuhiro Shikinaka</u> ,Kenta Suzuki,Hiroyasu Masunaga,Kiyotaka Shigehara
1Pa039	Aggregation of poly(ethyl-oxazoline) induced by inter-polymer hydrogen bonds and thermoresponsibility Yasuhiro Matsuda,Shota Morishima,Atsushi Takahara,Shigeru Tasaka
1Pb040	Structural analysis of resorcin[4]arene-based monodispersed reverse micelles using small-angle scattering techniques. <u>Rika Miyake</u> ,Shota Fujii,Rintaro Takahashi,Kazuo Sakurai
1Pa041	Study of Chiral Induction of an Optically Active Polyfluorene derivative Using Computational Simulation of Dimer Model <u>Yuki Hara</u> ,Yusuke Sanada,Yukiteru Katsumoto
1Pb042	Phase separation dynamics of poly( <i>N</i> -isopropylacrylamide) copolymerized with a hydrophilic monomer <u>Moe Kitaba</u> ,Mitsuhiro Matsumoto,Taka-Aki Asoh,Tatsuya Shoji,Takashi Nishiyama,Hideo Horibe,Yasuyuki Tsuboi
1Pa043	A thermally-stable mesoporous monolith made of engineering plastics <u>Sadaki SAMITSU</u>
1Pb044	Solvent effects on conformation of rod brushes <u>Kenta Watanabe</u> ,Moriya Kikuchi,Seigou Kawaguchi
1Pa045	Analysis of dynamics of polyrotaxane in solution and gel by magnetic nuclear relaxation time measurements <u>Yuta Hidaka,</u> Koichi Mayumi,Lan Jiang,Hideaki Yokoyma,Kohzo Ito
1Pb046	Micellization behavior of the alternating multi-block copolymer with the stereo-controlled PNiPAm <u>Kazuaki Rikiyama</u> ,Yukiteru Katsumoto
1Pa047	Effect of Solubility on Structure of Diblock Copolymer Micelles in Mixture Solvents <u>Hiroki Hamamoto</u> ,Katsuhiro Yamamoto

## C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

1Pa049 Wholly Aromatic Poly(ester imide)s with Low Thermal Expansion Properties, Optical Transparency, Heat Resistance, and Solution-Processability <u>Masatoshi Hasegawa</u>,Tomoki Hirai,Tomohiro Ishigami,Shinya Takahashi,Ishii Junichi 1Pb050 Polybenzoxazoles with Low Coefficient of Thermal Expansion (4). Effect of Amidecontaining Bis(o-aminophenol) Junichi ISHII, Ryosuke WATANABE, Masatoshi HASEGAWA Solution-processable Colorless Polyimides Derived from Hydrogenated Pyromellitic 1Pa051 Dianhydride (H-PMDA) (5). Strategy for Improving Film Toughness and Low Thermal Expansion Property. Katsuki ICHIKAWA, Junichi ISHII, Masatoshi HASEGAWA 1Pb052 Solution-processable Transparent Polyimides (3). Solubility in Aqueous Solutions Yuri NAGASAWA.Junichi ISHII.Masatoshi HASEGAWA 1Pa053 Low-modulus Polyimides (12). Improvement of Adhesion Strength with Copper Foil Kota Suzuki, Mayumi Saeki, Junichi Ishii, Masatoshi Hasegawa Synthesis of Polysiloxane-based Ionic Liquids with Ionic Pendant Moiety 1Pb054 Yuva Katayose, Tsukasa Ichikawa, Nobukatsu Nemoto 1Pa055 The physical characteristics of volume phase transition gels crosslinked with silica nanoparticles Naoto Yoshida, Yuusuke Ishikawa, Takumi Sano, Syunsuke Tanahashi, Hideyuki Itagaki 1Pb056 A composite material possessing supramolecular bonding between cellulose fiber and polymer matrix Akihide Sugawara, Taka-Aki Asoh, Yoshinori Takashima, Akira Harada, Hiroshi Uyama 1Pa057 Toughening of thermoplastic elastomers by introduction of hydrogen bonds between hard and soft phases. Saki Kawana, Shuya Nakai, Shintaro Nakagawa, Naoko Yoshie 1Pb058 Properties of salt-in-polymer-type polymer solid electrolyte with homogeneous network Monami TOSA, Kei HASHIMOTO, Hisashi KOKUBO, Masayoshi WATANABE Preparation and properties of cured polyimides from highly-soluble thermosetting imide 1Pa059 oligomers containing triazine units Ryo Nagao, Yoshikazu Go-ukon, Mutsumi Kamiyama, Shigeko Sasaki, Yuji Shibasaki,Yoshiyuki Oishi 1Pb060 Application of low temperature curing composition using blocked isocvanate monomer. Mina Onishi,Katsutoshi Ono,Tomomitsu Kato,Kouji Ogawa,Songhai Shao,Yuki Watanabe 1Pa061 The characteristics of UV curing composite using multifunctional secondary thiol compounds Mina Onishi,Kenta Asakawa,Koji Mitani 1Pb062 Thermal and mechanical properties of polybenzoxazines derived from polyfunctional phenols Shunichiro Matsumura, Tsubasa Osawa, Tsutomu Takeichi, Takehiro Kawauchi 1Pa063 Correlation between primary structure and radical scavenging effects of nanocarbon materials as antioxidants. Koki Akamatsu, Hideko Oyama, Seisuke Ata 1Pb064 Improvement of adhesion srength for carbon fiber/polypropylene interface by microbubble treatment using electrophoretic method Akiyoshi Takeno, Shinya Takahashi, Daiki Ishida 1Pb066 Design of One-dimensional Supramolecular Assembly bearing Chiral [4n]annulene Core Michihisa Ueda, Yoshimitsu Itoh, Takuzo Aida Environment-Dependent Fluorescence of PEGylated Viscosity Probe 1Pa067 Hidetsugu Kitakado, Soichi Yokoyama, Shohei Saito, Atsuhiro Osuka Photoluminescence behavior of gold polymer complex with NHC ligand 1Pb068 Masaya Yamane, Shinya Nakamura, Sathyanarayana Arruri, Srinivas Katam, Prabusankar Ganesan,Osamu Tsutsumi 1Pa069 Synthesis and characterization of 2-nitrobenzyl photodegradable surface modifiers with siloxane bonds at 4-position Shundai Genda, Shoko Saito, Michiko Ito, Kazuo Yamaguchi 1Pb070 Development of hydrogel showing near infrared-to-blue photon upconversion

	<u>Yoichi Sasaki</u> ,Bharmoria Pankaj,Itsuki Ajioka,Nobuhiro Yanai,Nobuo Kimizuka
1Pa071	Evaluation of Photothermal Materials and Thermal-Responsiveness Polymers for a DNN Neural Device <u>Shiori Konisho,</u> Takuya Otsuka
1Pb072	Functional mechanisms of thermo-responsive polymers revealed by calorimetry and time-resolved fluorescence anisotropy measurements <u>Chie Otsuka</u> ,Yasuo Asami,Akinobu Hayashi,Hidetoshi Tokuyama,Seiichi Uchiyama
1Pa073	Evaluation of gap distance change between gold nano-dots immobilized on the polyacrylic acid gel surface <u>Satoru Hamajima,</u> Hideyuki Mitomo,Yasutaka Matsuo,Kenichi Niikura,Kuniharu Ijiro
1Pb074	Control of polymer gel degradation behavior <u>Suguru Gosho</u> ,Yasutaka Anraku,Ichiro Sakuma,Yuki Akagi
1Pa075	Core-crosslinked star polymers with many arms for novel soft materials Shohei Ida,Keisuke Takimoto,Ryuichi Yoshida,Yuri Toyama,Chisato Maezawa, <u>Shokyoku</u> <u>Kanaoka</u>
1Pb076	Synthesis of a novel hydrogel from acrylated poly(arbutin) with poly(ethylene imine) <u>Ayaka Seto</u> ,Hisayoshi Kofujita,Yoshiyuki Oishi,Yuji Shibasaki
1Pa077	Synthesis and property of a novel hydrogel by acrylated poly(arbutin) with itaconic acid <u>Rika Kajiwara,</u> Hisayoshi Kofujita,Yoshiyuki Oishi,Yuji Shibasaki
1Pb078	Precise control of sol-gel transition temperatures by simply mixing two different ABC triblock copolymer solutions <u>Michika Onoda</u> ,Takeshi Ueki,Ryota Tamate,Aya Akimoto,Timothy Lodge,Ryo Yoshida
1Pa079	Grafting Effects of Poly(N-Isopropylacrylamide) on Water Adsorption and Desorption Properties <u>Shunpei Katagiri</u> ,Hisashi Honda
1Pb080	Design of polymers consisting of three-armed oligo(ethylene glycol) enabling condensation of hydrophobic molecules Hidenari Kayano,Syuuhei Komatsu,Taka-Aki Asoh,Ryo Ishihara <u>,Akihiko Kikuchi</u>
1Pa081	The properties of surface modified with photodegradable silane coupling agents having POSS moieties <u>Yuta Ono</u> ,Noriko Chikaraishi,Kazuo Yamaguchi
1Pb082	CO2-responsive liquid marble <u>Shotaro Yukioka</u> ,Syuji Fujii,Yoshinobu Nakamura,Shin-ichi Yusa
1Pa083	Self-assembly polymer brush formation of liquid-crystalline block copolymer in dewetting process <u>Koji Mukai</u> ,Mitsuo Hara,Shusaku Nagano,Takahiro Seki
1Pb084	Preparation and molecular orientation evaluation of humidity-responsive azobenzene derivative thin film <u>Ayaka Masuda,</u> Mitsuo Hara,Shusaku Nagano,takahiro Seki
1Pa085	Fabrication of photodurable reoriented liquid crystalline copolymer films with benzoic acid and in situ formation of N-benzylideneaniline side groups <u>Shogo Inada</u> ,Ryosuke Fujii,Tomoro Uchikawa,Mizuho Kondo,Nobuhiro Kawatsuki
1Pb086	Introduction of N-benzylideneaniline crosslinking point into crosslinked liquid crystalline polymer by using polymer reaction and photoinduced bending behavior. <u>Koichi Kotera</u> ,Ryohei Fukae,Mizuho Kondo,Nobuhiro Kawatsuki
1Pa087	Photoinduced exfoliation behavior of hydrogen bonding N-benzylideneaniline liquid crystalline polymer <u>Daijiro Kojima</u> ,Hiromi Ikoma,Mizuho Kondo,Nobuhiro Kawatsuki
1Pb088	Molecular Motion and Photoinduced orientation in Diblock/Random Copolymer Doped with N-Benzylideneaniline Derivatives <u>Saki Fukunaga</u> ,Hiromi Ikoma,Mizuho Kondo,Nobuhiro Kawatsuki
1Pa089	Photoalignment and surface shape change of liquid crystalline polymer films with N- benzylideneaniline group by topological beams

	<u>Nahomi Waki</u> ,Mizuho Kondo,Nobuhiro Kawatsuki,Hiroshi Ono,Tomoyuki Sasaki,Moritsugu Sakamoto
1Pb090	Hetero-Smectic Structure of Random Copolymer with Azobenzene and Oligo(Methyl Methacrylate) Side Chains <u>Ryota Higashi</u> ,Mitsuo Hara,Shusaku Nagano,Takahiro Seki
1Pa091	Preparation of Liquid Mables by Using Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomers/Cellulose Fiber Composites <u>Shunta Yamamoto</u> ,Yuri Oikawa,Hideo Sawada
1Pb092	Adsorption of Radical Polymerizable Monomers by Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Cyclodextrin Polymer Composites Possessing Superoleophilic/Superhydrophobic Characteristic <u>Takanobu Morimoto</u> ,Katsumi Yamashita,Jun-ichi Suzuki,Masaya Chiba,Hideo Sawada
1Pa093	Preparation of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Magnetite Composites - Application to the Separation of Oil and Water <u>Seigo Okada</u> ,Katsumi Yamashita,Hideo Sawada
1Pb094	Preparation and Application of Fluorinated Aliphatic Diols/Organic Phosphonic Acids/Magnetite Nanocomposites <u>Katsumi Yamashita</u> ,Yoshiyama Kaneumi,Tetsushi Kijima,Keisuke Kokin,Hideo Sawada
1Pa095	Fabrication of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Poly(vinyl alcohol) Composite Films <u>Yuta Aomi,</u> Hideo Sawada
1Pb096	Preparation and Characterization of Polypyrrole-ITO Nanocomposite Conductive Inks <u>Yukihiro Tsugita</u> ,Shuichi Maeda
1Pa097	Amperometric glucose sensor based on aqueous-dispersed single-walled carbon nanotubes wrapped with a redox polymer <u>Hsiu-Pen Lin,</u> Jun Akimoto,Yoshihiro Ito,Yaw-Kuen Li,Masuki Kawamoto
1Pb098	Preparation of zirconia nanoparticles dispersions surface-modified by an acid anhydride and its application to hybrid thin films <u>Atsushi Sasaki</u> ,Hiroyuki Enomoto,Kazuhide Yoshiyama,Hiroaki Imoto,Kensuke Naka,Kimihiro Matsukawa
1Pa099	Lanthanide Oxides Prepared on the polymeric micro-spheres possessing comb-like polyethyleneimine <u>Sarina Hattori,</u> Daiki Soma,Katsuya Kaikake,Ren-Hua Jin
1Pb100	Superacid-catalyzed preparation of highly dispersible metal oxide nanoparticles without hydrocarbon components and their hybridization with organic polymer <u>Taishi Nakahara</u> , Yoshiro Kaneko
1Pa101	Radical Polymerization of Vinyl Monomers on Chiral Silica Matrix <u>Rei Nemoto</u> ,Seiji Tsunega,Ren-Hua Jin
1Pb102	Effect of Enantiomer Excess in Template on the Formation of Chiral Silica <u>Kei Ohta</u> ,Seiji Tsunega,Ren-Hua Jin
1Pa103	Preparation of organic-inorganic hybrid capsules consisting of biodegradable coacervate droplets coated with carbonate apatite <u>Hokuto Santa</u> ,Yui Ikedo,Syuuhei Komatsu,Taka-Aki Asoh,Ryo Ishihara,Akihiko Kikuchi
1Pb104	Synthesis of polyamide and hydroxyapatite nanocomposite <u>Tomoyo Kawamura</u> ,Toshiaki Ougisawa,Kenya Sonobe,Asami Ohashi,Harumi Watanabe,Katsushi Watanabe,Hiroshi Oyamada,Masaaki Aramaki
1Pa105	Polymorphs of CaCO <sub>3</sub> mineralized in interpenetrating polymer networks composed of alginic acid and poly(4-vinyl pyridine) Momoka Nakatani, <u>Kazuki Sugimura,</u> Yoshiyuki Nishio
1Pb106	Development of Functional Composite Materials Based on Cellulose Derivatives and Amorphous Calcium Carbonate <u>David Kuo,</u> Satoshi Kajiyama,Tatsuya Nishimura,Takashi Kato
1Pa107	Nanostructural Control of Calcium Phosphate/Organic Polymer Hybrid Thin Films with

Macromolecular Templates <u>Rino ICHIKAWA</u>,Satoshi KAJIYAMA,Misato IIMURA,Takashi KATO

1Pb108 Synthesis and properties of new silicon nanosheets with alkenyl and alkynyl substituents <u>Yuki Matsuzawa</u>,Yuki Tanaka,Yohei Adachi,Joji Ohshita,Masataka Ohashi,Hideyuki Nakano

## D. BIOPOLYMERS AND BIORELATED POLYMERS

- 1Pb110 Multifunctional Gold Nanoparticles for Protein Degradation <u>Kiyoshi Morishita</u>,Reika Tei,Kou Okuro,Takuzo Aida
- 1Pa111 Preparation of keratin nanoparticles with thermosensitivity and plasmonic property <u>Kaori Ito</u>,Yuuka Fukui,Keiji Fujimoto
- 1Pb112 Construction and its characterization of hybrid nanoparticle with biological membranes <u>Momoka Nakura</u>,Riku Kawasaki,Shin-ichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi
- 1Pa113 Functionalization of Light-Harvesting 1/Reaction Center (LH1-RC) for a Photocurrent Generation Device <u>Hiromi Harada</u>,Nobutaka Takeda,Masaharu Kondo,Mamoru Nango,Zheng-Yu Wang-Otomo,Takehisa Dewa
- 1Pb114 Construction and evaluation of multilayered planar lipid membrane containing photosynthetic light-harvesting complexes (LH2) <u>Momoka Akaike</u>,Soichiro Hayashi,Masaharu Kondo,Takehisa Dewa
- 1Pa115 Development of multifunctional immunity-inducing system using chondroitin sulfate derivative-modified liposomes <u>Minori Okubo,Eiji</u> Yuba,Atsushi Harada,Kenji Kono
- 1Pb116 Surface Characterization and Synthesis of Zwitterionic Polyelectrolytes Containing Inverse-phosphorylcholine Units Motoyasu Kobayashi,Saori Mihara,Kazuo Yamaguchi
- 1Pa117 Preparation of structurally stable micelles in vivo by crosslinking of hydrophobic core of micelle

Rena Tanaka, shota Fujii, Rintaro Takahashi, Kazuo Sakurai

- 1Pb118 Synthesis of Catalase Microtube Having Self-Propelling Ability in Aqueous Medium <u>Natsuho Sugai</u>,Yoko Nakai,Yoshitsugu Morita,Teruyuki Komatsu
- 1Pa119 Synthesis of amphiphilic block copolymer including sulfobetaine and stimuli-response evaluation Hiroki Uehara,Aki Kashiwazaki,Shingo Kobayashi,Masaru Tanaka
- 1Pb120 Preparation of polyion complex micelles made from pH-responsive diblock copolymer having membrane destructivity. <u>Ken Gotoh</u>,Yusuke Onuma,Syuuhei Komatsu,Ryo Ishihara,Glen S. Kwon,Akihiko Kikuchi
- 1Pa121 Intracellular delivery of proteins with polyphosphoester vesicles <u>Masayuki Fujita</u>,Shin-ichi Yusa,Yasuhiko Iwasaki
- 1Pb122 Preparation of DNA quadruplex nanogels for DDS. <u>Kohei TATSUMI</u>,Shizuma TANAKA,Kota SAKAMOTO,Shinsuke YUKAMI,Akinori KUZUYA,Yuichi OHYA
- 1Pa123 Formation and optical properties of supramolecular nanosheet formed from the binary self-assembly of inosinic acid-bearing bolaamphiphile and DNA <u>Rika IWAURA</u>
- 1Pb124 Dynamic Properties of Protein Needles fused with Functional Molecules <u>Yuki Hishikawa</u>,Satoshi Abe,Takafumi Ueno
- 1Pa125 Stimuli-responsive crystallization of the amino acid derivatives triggered with the triboelectric charged surface <u>Hisashi Takeuchi</u>,Masayoshi Tanaka

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

- 1Pc001 Spin-Trapping Analysis for Degradation Mechanism of Butadiene Rubber Satsuki Cho, Kenji Kinashi, Wataru Sakai, Naoto Tsutsumi, Rvohei Shindo, Koichiro Miyoshi,Yuko Sekine 1Pd002 Spin-Trapping Analysis of Oxigen Effect on Thermal Degradation of Isoprene Rubber Ai Hasegawa, Kenji Kinashi, Wataru Sakai, Naoto Tsutsumi, Ryohei Shindo, Koichiro Miyoshi, Yuko Sekine 1Pc003 Spin-Trapping Analysis for Degradation of Poly(methyl methacrylate) Shota Ichise, Kenji Kinashi, Wataru Sakai, Naoto Tutumi Spin-Trapping Analysis for Mechanical Degradation Mechanism of Polystyrene 1Pd004 Masaki Fujinami, Kenji Kinashi, Wataru Sakai, Naoto Tsutsumi Synthesis of core cross-linked polymeric nanoparticles containing thiophene and sulfur 1Pc005 using elemental sulfur. Hiroki Otsuka, Kazuhiro Nakabayashi, Hideharu Mori 1Pd006 Post-Modification of Cross-Linked Polymer Gels via Freezing-Induced Radical Generation Sota Kato, Daisuke Aoki, Hideyuki Otsuka 1Pc007 Main chain-scission and -exchange reactions of poly(conjugated ester)s via conjugate substitution of a-(oxymethyl)acrylate Takumi Miyazaki, Yasuhiro Kohsaka 1Pd008 Stabilization reactions of poly(butylene terephthalate) with epoxy compounds studied by MALDI-MS and pyrolysis-GC-MS masahiro Kurimoto.Hajime Ohtani.Hiroaki Akutsu.Kazufumi Watanabe 1Pc009 Cross-linking of unsaturated bond-containing polymers with bifunctional rotaxane crosslinker Momoko Ofuchi, Tadashi Tsukamoto, Toshikazu Takata 1Pd010 Reaction of an Algal Oil Botryococcene with Hydrosilylated Polyethylene Glycol Moe Saito, Hidehisa Kawashima, Masashi Kijima 1Pc011 Direct synthesis of block copolymer containing poly(3-hexylthiophene) segment by polymer linking reaction Tomoya Higashihara, Yamato Shoji Pd-catalyzed synthesis of polydimethylsiloxanes with functional end groups and their 1Pd012 applications FENGTAO ZHENG, Takashi Kai, Yohei Adachi, Joji Ohshita
- 1Pc013 A basic study on degradation behavior of three-dimensional network structure <u>Yusuke Kitazaki</u>,Katsuhisa Takeshita,Katsuhisa Tokumitsu
- 1Pd014 A study on the degradation of polyolefin in addition of polysilane materials <u>Hideya Suzuki</u>,Katsuhisa Tokumitsu,Hiroki Takeshita

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

- 1Pd016In-situ Secondary Structure Analysis of Polyaspartate Exhibiting Reversible Helix-Helix<br/>Transition by Synchrotron X-ray Scattering<br/><u>Yuki Orito, Hiroyasu Masunaga, Hidemine Furuya, Akihiro Abe</u>
- 1Pc017 Establishment of the electron density imaging of the poly(3-hydroxybutyrate) paracystal structure on the basis of maximum entropy method and the powder X-ray diffraction. Junki Yamamoto,Miho Nagao,Shinichi Sakurai,Kenichi Kato,Masaki Takata,<u>Sono Sasaki</u>
- 1Pd018 Structure change of polyisobutylene / nanoparticle interface <u>Akira Ushio</u>,Yasuhiro Matsuda,Shigeru Tasaka
- 1Pc019 Preparation of synthetic isoprene rubber with nano matrix structure

	<u>Hironari Nishioka</u> ,Seiichi Kawahara,Yoshimasa Yamamoto
1Pd020	Evaluation of dispersion state of silica particles in rubber during deformation by Reverse Monte Carlo method
1Pc021	<u>Tomotaka Nakatani</u> ,Shinji Kohara,Taiki Hoshino,So Fujinami,Masaki Takata Internal structural response of elongated Flemion membrane by small-angle/wide-angle
110021	X-ray scattering <u>So Fujinami</u> ,Taiki Hoshino,Tomotaka Nakatani,Masaki Takata
1Pd022	Raman spectroscopic study of microscopic deformation of HDPE with various molecular weight distribution under uniaxial stretching. <u>Takumitsu Kida</u> ,Yusuke Hiejima,Koh-hei Nitta
1Pc023	Rate of strain-induced crystallization of natural rubber under constant supercooling <u>Masatoshi Tosaka</u>
1Pd024	Morphology and polymorphism of propylene-ethylene random copolymer crystals grown in thin films <u>Ken Taguchi,</u> Akihiko Toda,Toru Imai,Koji Yamada
1Pc025	Crystal morphology of bi-drawn polyethylene films on various molecular weight components <u>Go Matsuba</u> ,Yo Okawa,Shin-ichi Takata
1Pd026	The annealing effects of microscopic morphology in HDPE using in-situ Raman spectroscopy.
10.007	Misato Nabata, Takumitsu Kida, Koh-hei Nitta
1Pc027	Development of Large-Area and Thin Membrane Ultra-High Molecular Weight Polyethylene by Biaxial Melt-Drawing Technique and Subsequent Preparation of Porous Membrane Daiki Tomiya,Yui Shimizu,Daiki Nara,Takeshi Yanobe,Hiroki Uehara
1Pd028	Structural Development during Drawing of Linear Low Density Polyethylene and Stimulus Response As Evaluated by In-Situ X-ray Measurement <u>Hiroaki Yoshizawa</u> ,Daiki Nara,Takeshi Yamanobe,Hiroki Uehara,Koki Aoyama,Hiroyasu Masunaga,Maki Hiraoka,Naoki Hayashi
1Pc029	Crystallization Behavior during Annealing Process of Ethylene/Vinyl Alcohol Copolymer with different Compositions. Shusuke Nishida, Takahiko Nakaoki
1Pd030	Melting Behavior of Ultrahigh Molecular Weight Polyethylene annealed under tension. <u>Koichiro Nishida,</u> Takahiko Nakaoki,Hideaki Ishihara
1Pc031	Helical structure model of micro-monoclinic multi-domain of Isotactic Polypropylene <u>Atsuhiro Kunishige</u>
1Pd032	Membrane Preparation of Novel Cyclic Polyolefin and Its Structural and Property Change Induced by Drawing Daiki Nara,Tomoki Okushio, <u>Hiroki Uehara</u> ,Takeshi Yamanobe,Daisuke Takeuchi,Kohtaro Osakada
1Pc033	Effect of Molecular Structure on Melt-Drawing Behavior of Metallocene-Catalyzed Ultra- High Molecular Weight Polyethylene <u>Takuya Ohnishi</u> ,Yasutake Wakabayashi,Kei Inatomi,Shigehiko Abe,Chihiro Narita,Yui Shimizu,Hiroki Uehara,Takeshi Yamanobe
1Pd034	Effect of Fatty Acids on Local Glass Transition Temperature around Ionic Aggregates and Tensile Behavior of Ethylene Ionomers. <u>Koike Manato</u> ,Yohei Miwa,Yu Kohbara,Shoichi Kutsumizu
1Pc035	Formation and Growth of nano-void during hot drawing of polypropylene <u>Syota Soeno</u> ,Takahiko Kawai,Shin-ichi Kuroda,Tomoyuki Nemoto,Shunsuke Koido
1Pd036	Study of the Orthorhombic-to-Trigonal Crystal Phase Transition of Polyoxymethylene on the Basis of Synchrotron X-ray Structure Analysis and Density-Functional-Theoretical Estimation of Thermodynamic Functions <u>Kohji Tashiro</u> ,Hiroko Yamamoto,Kunihisa Sugimoto

1Pc037	Trace of Hierarchical Structural Change of Poly(vinylidene Fluoride) Subjected to High Electric Field on the Basis of in-situ Time-resolved Simultaneous Measurement of Wide- angle and Small-angle X-ray Scatterings and Transmission Infrared Spectra <u>Kohji Tashiro</u> ,Hiroko Yamamoto,Kouki Aoyama,Hiroshi Sekiguchi,Hiroyuki Iwamoto
1Pc039	Molecular weight dependence of amphiphilic polymers on lamellar film formation by humid annealing. Kazuki Ebata,Yuki Hashimoto,Shunsuke Yamamoto,Masaya Mitsuishi,Jun Matsui
1Pd040	Lamellar structure formation of acrylate polymers using humid annealing method Keiko Tanaka,Kohei Matsunaga, <u>Jun Matsui</u>
1Pc041	Control of helical handedness of microphase separated structures by introduction of chiral compounds at the interfaces of polymer phases <u>Takeshi Higuchi</u> ,Tomohiko Nagao,Hiroshi Jinnai
1Pd042	Sequential Assembly of Polyelectrolyte-surfactant Complex Thin Films on Solid Substrate <u>Toyoaki Hirata</u> ,Ayaka Kondo,Shota Uchida,Kenji Hisada
1Pc043	Effect of Solubility of Water and Volatility of Solvents on Morphology of Polystyrene Thin Film
	<u>Atsushi Miyata</u> ,Yuta Yamada,Yoshihisa Fujii,Naoya Torikai
1Pd044	Effect of quantum beam irradiation on the structure and properties of polymer films. <u>Ayaka Masuda</u> ,Ryunosuke Iwabuchi,Hiroki Uehara,Takeshi Yamanobe,Natsuki Hayashi,Noriaki Seko
1Pc045	Orientation Control of Polymer Thin Films by Polarized UV-assisted Vapor Deposition Polymerization <u>Masanori Kamiya</u> ,Yan Tan,Ryosuke Matsubara,Atsushi Kubono
1Pd046	Droplet Volume Dependency of Precursor Film Evolution on Line-patterned Polyelectrolyte Brushes Surface <u>Shohei Shiomoto,</u> Kazuo Yamaguchi,Motoyasu Kobayashi
1Pc047	Adsorption/desorption behavior of dendritic viologen-arranged molecules with thiol groups on gold surface <u>Shuhei Nishida</u> ,Takehiro Kawauchi
1Pd048	Influence of surface chemical compositions on settlement of barnacles <u>Ai Momose</u> ,Yuta Segawa,Takayuki Murosaki,Yuji Hirai,Yasuyuki Nogata,Masatsugu Shimomura
1Pc049	Synthesis and Stimuli-responsivity of Diblock Copolymers Composed of Sulfobetaine and Ionic Blocks:Influence of Block Ratio and Salt Effect <u>Dongwook Kim</u> ,Hideki Matsuoka,Yoshiyuki Saruwatari
1Pd050	Complex Formation and Temperature Responsivity of Zwitterionic Betaine Surfactant and Ionic Polymers Hitomi Sakamoto, <u>Dongwook Kim,</u> Hideki Matsuoka,Yoshiyuki Saruwatari
1Pc051	Micellization behavior and thermo-responsivity of amphiphilic diblock copolymer containing sulfobetaine <u>Shinya Hayashi</u> ,Hideki Matsuoka,Yoshiyuki Saruwatari
1Pd052	Association behavior of comb-like polymer with amphiphilic side chains in aqueous solution Kengo Tsuboi,Isamu Akiba
1Pd054	Nanofiber Formation and Its Chirality of Newly Synthesized Trefoil-like Triamide Derivatives having Three Hydrocarbons with Thixotropy Inducing Ability <u>Yuto Nakagawa</u> ,Yuma Moriya,Eiichi Sato,Yuji Shibasaki,Atsuhiro Fujimori
1Pc055	Structural and Functional Properties of Amphiphilic Block Copolymers in Simulated Body Fluids <u>Kanaho Yamaguchi,</u> Kazutoshi Iijima,Mineo Hashizume
1Pd056	Formation of aggregates by polymerization-induced self-assembly due to electrostatic interactions Yusuke Kinoshita,Kazuhiko Ishihara,Shin-ichi Yusa

- 1Pc057 Creation of non-disintegrating micelles aiming at improvement of blood retention <u>Jun Matsuno</u>,Shota Fujii,Rintaro Takahashi,kazuo Sakurai
- 1Pd058 Synthesis of highly pure cyclic amphiphilic block copolymers and structual control of vesicles by self-assembly Satoru Chimura,Takuya Yamamoto
- 1Pc059 Salt effect on the nanostructure of polybetaine brush at the air/water interface <u>Ryota Matsuda</u>,Koichiro Mae,Hideki Matsuoka,Yoshiyuki Saruwatari
- 1Pd060 Nanostructure and Temperature Responsivity of Polysulfobetaine Brushes at the Air-Water Interface Koichiro Mae,Ryota Matsuda,Hideki Matsuoka,Yoshiyuki Saruwatari

#### C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 1Pd062 Synthesis and Thin Film Preparation of Liquid-Crystalline Perylene Tetracarboxylic Bisimide Derivative Bearing a Crown Ether as an Ion-Conductive Unit <u>Taiki Taga</u>,Masahiro Funahashi
- 1Pc063 Synthesis of Liquid Crystalline Perylene Bisimide Derivatives with Cyclotetrasiloxane Rings and an Imidazolium moiety <u>Kosei Okamoto</u>,Masahiro Funahashi
- 1Pd064 Polymerization of bicontinuous cubic liquid crystals for proton conductive materials <u>Tsubasa Kobayashi</u>,Takahiro Ichikawa
- 1Pc065 Fabrication and Functionalization of Nanostructured Membranes Using Zwitterionic Liquid Crystals <u>Kyoya ADACHI</u>,Takeshi SAKAMOTO,Ruka MATSUBARA,Masafumi YOSHIO,Takashi KATO
- 1Pd066 Synthesis of an organogels incorporating a liquid crystalline luminophore <u>Shohei Sugiyama</u>,Osamu Tsutsumi
- 1Pc067 Gelation Behavior and Mesomorphic Behavior of the Complexes Based of Tartaric Acid and Amines

Hiroaki Tomita, Takuya Senda, Ayumi Tomatsu, Kazuhiro Yabuuchi

1Pd068 Preparation of supramolecular materials with cyclodextrin and photo-responsive molecule

Nanami Okano, Yoshinori Takashima, Akira Harada, Hiroyasu Yamaguchi

- 1Pc069 Self-healing property of hetero network hydrogels composed of supramolecular nanofiber-crosslinked polymer Kenji Kawamoto,Makoto Takafuji,Hirotaka Ihara
- 1Pd070 Reversible Control of Mechanical Strength of the Polymer Gels Using Dimerization Reaction of Triphenylimidazole Moieties Tetsuya Miura,Shinichiro Ushimaru,Masaya Moriyama,Kazuhiro Yabuuchi
- 1Pc071 Photo-healing ion gels via photo-induced dimerization <u>Ryota Tamate</u>,Aya Saruwatari,Hisashi Kokubo,Masayoshi Watanabe
- 1Pd072 Sol-gel transition of slide-ring gel using Diels-Alder reaction for Crosslinking <u>Kenichiro Kishinami,</u>Masatoshi Kidowaki,Kohzo Ito,Yuki Hayashi
- 1Pc073 Water-based synthesis and thermal decomposition behavior of polyrotaxane using Diels-Alder reaction for end-capping Masaya Watanabe,Tomoaki Tsuchiya,Masatoshi Kidowaki
- 1Pd074 Redox responsive actuator cross-linked by inclusion complex of cyclodextrin with viologen derivatives Hikaru Aramoto,Yoshinori Takasima,Akira Harada,Hiroyasu Yamaguchi
- 1Pc075 Preparation of Novel Nano-structured Stimuli-responsive Gels Using Block Copolymer Lithography <u>Kosuke Karakane</u>,Kenichi Ogata,Ryuichi Nakatani,Akifumi Kawamura,Teruaki Hayakawa,Takashi Miyata

1Pd076	Design of Stimuli-responsive Polypeptide Hydrogels That Regulate Their Molecular Binding Ability by Structural Transition <u>Masaaki Kanazawa</u> ,Kazuya Matsumoto,Akifumi Kawamura,Takashi Miyata
1Pc077	Design of semi-closed self-oscillating gel by using surface grafted structure <u>Mami Furusawa</u> ,Younsoo Kim,Ko Matsukawa,Aya Akimoto,Ryo Yoshida
1Pd078	Preparation of the Self-Oscillating Polymer Brushes with Varied Graft Densities and Their Characterizations by Atomic Force Microscopy <u>Kenta Homma</u> ,Yuji Ohta,Aya Mizutani Akimoto,Ryo Yoshida
1Pc079	Electromechanical Properties of Electrothermal Actuators Using Elastomers <u>Yukino Fujiwara</u> ,Naoya Katsuyama,Hidenori Okuzaki
1Pd080	Development of Patterned Multiple Electrode by Surface Modification with Ion Implantation <u>Masanori Hatashita</u> ,Eiichi Shoji
1Pc081	Optical Properties of Strain-Responsive Cholesteric Liquid-Crystalline Elastomers <u>Seiya Kimura,</u> Kyosun Ku,Kaori Fujisawa,Osamu Tsutsumi,Norihisa Akamatsu,Atsushi Shishido
1Pd082	Photoinduced Deformation of Crosslinked Azobenzene Liquid-Crystalline Polymer Films at Cryogenic Temperature <u>Shunya Ogikubo</u> ,Gaku Hashimoto,Toru Ube,Masayuki Suda,Hiroshi Yamamoto,Tomiki Ikeda
1Pc083	Changes in Alignment of Mesogens and Molding of Crosslinked Liquid-Crystalline Polymers with Main-Chain Dynamic Covalent Bonds <u>Masaya Matsushita</u> ,Kyohei Kawasaki,Toru Ube,Tomiki Ikeda
1Pd084	Optical reorientation behaviors for photoresponsive liquid crystalline block copolymers with chirality <u>Marina Ueda,</u> Mitsuo Hara,Syusaku Nagano,Takahiro Seki
1Pc085	Development of Lyotropic Liquid Crystalline Semiconducting Block Copolymers Realized by Incorporation of Rod-Shaped Helical Polymer <u>Hiroki Hayashi</u> ,Shigeki Nimori,Hiromasa Goto
1Pd086	Synthesis of o-position methyl substituted poly(phenylisocyanides) having chiral side chain <u>Takuya Yonehara</u> ,Hiroki Hayashi,Hiromasa Goto
1Pd088	Preparation of polysilsesquioxane adhesives containing polyhydric phenol structures in side chains <u>Yusaku Sainohira</u> ,Yoshiro Kaneko
1Pc089	Synthesis and ion-conductive properties of deep eutectic silsesquioxane nanoparticles. <u>Yuma Tanizaki,</u> Kazuhiro Nakabayashi,Hideharu Mori
1Pd090	Preparation of ammonium-group-containing POSSs with two kinds of substituents and their application to ionic liquids <u>Ryoya Hasebe</u> ,Yoshiro Kaneko
1Pc091	Correlation between the structures and reaction temperatures/pressures/times on the preparation of ammonium-group-containing POSSs using a superacid catalyst <u>Takatoshi Matsumoto</u> ,Yoshiro Kaneko
1Pd092	Preparation of polyhedral oligomeric silsesquioxane containing carboxyl groups in side chains <u>Tomoya Kozuma</u> ,Yoshiro Kaneko
1Pc093	Substitution effects with polyhedral oligomeric silsesquioxane on electrochemiluminescence of ruthenium complex <u>Ryota Nakamura</u> ,Hayato Narikiyo,Masayuki Gon,Kazuo Tanaka,Yoshiki Chujo
1Pd094	Preparation of silsesquioxane copolymers containing ammonium, mercapto, and polymerizable groups in side-chains and their adhesive properties to inorganic materials <u>Kento Oshima</u> , Yoshiro Kaneko
1Pc095	Thermal properties of necklace-type silsesquioxane polymers

	<u>kenta Kumeda</u> ,Tsubasa Natsuaki,Satoshi Watanabe,Masashi Kunitake,Kazuya Suwa,Tomoyuki Ooba
1Pd096	Fabrication and properties of polymer films with incompletely condensed cage- silsesquioxane fillers <u>Yuri Sato</u> ,Sota Yuasa,Hiroaki Imoto,Kensuke Naka
1Pc097	Emission behavior of terbium complex sensitized by fluorene derivative hybridized to polysilsesquioxane thin film Ryohei ONO,NAKAMURA NAKAMURAc,Haruka SUZUKI,Satoshi MINAMI,Koji MITAMURA,Hiroyuki ENOMOTO, <u>Seiji WATASE</u>
1Pd098	Porous SiO <sub>2</sub> Nanofilm Fabrication from Silsesquioxane-Containing Block Copolymer LB Films as a Template <u>Yuya Ishizaki</u> ,Shunsuke Yamamoto,Tokuji Miyashita,Masaya Mitsuishi
1Pc099	Structural control of liquid crystal substituted double decker-shaped polyhedral silsesquioxane <u>Naoya Takahashi</u> ,Miyashita Tokuji,Jun Matsui
1Pd100	Shape memory characteristics of carbon fiber / epoxy resin composite materials <u>Yusuke Masutani</u> ,Shougo Nobukawa,Katsuhiro Inomata
1Pc101	Composite polymer gel hybridized with monodisperse mesoporous silica particles <u>Hiroki Ishii</u> ,Tomoyo Koga,Shinya Anraku,Tatsuo Kimura,Nobuyoshi Miyamoto
1Pd102	Fabrication of Stretchable and Highly Conductive Polymer Hydrogels <u>YingJun An</u> ,Kana Iwashita,Hidenori Okuzaki
1Pc103	Composites of Cellulose and Functionalised acetylene black for improving electrocatalytic and mechanical properties, <u>Santhosh Bukka</u> ,Noriyoshi Matsumi
1Pd104	Organic/Inorganic Hybrid of Polyfluorene Carrying Aggregation-Induced Emission (AIE)- Active Moiety with Silica <u>Shun Otora</u> ,Takahiro Uno,Takahito Itoh,Masataka Kubo
1Pc105	Biomineralization-inspired fabrication of chitosan/calcium carbonate core-shell type composite microparticles as a drug carrier Izuka Nishii,Shokyoku Kanaoka, <u>Satoshi Tanimoto</u>
1Pd106	Biomineralization-inspired fabrication of chitosan/hydroxyapatite core-shell type composite microparticles <u>Sayuri Takeshima</u> ,Shokyoku Kanaoka,Satoshi Tanimoto
	D. BIOPOLYMERS AND BIORELATED POLYMERS
1Pd108	Bioethanol production from kraft pulp using cellulase and yeast <u>Aierkentai Gulibusitan</u> ,Takashi Yoshida,Toshiyuki Uryu
1Pc109	Synthesis of periodic glycopolymers as mimics of naturally occurring bioactive polysaccharides <u>Kanae Shimomura</u> ,Tomomi Otsubo,Jin Motoyanagi,Tomonari Tanaka,Masahiko Minoda
1Pd110	Conforamational characterization of a water-soluble beta-(1,3)(1,6)-D-glucan from Aureobasidium pullulans <u>Hiroyuki Kono</u> ,Nobuhiro Kondo,Katsuki Hirabayashi,Makoto Ogata,Shinya Ikematsu
1Pc111	Modification of the properties of monodisperse amylose using deuterium isotope effects <u>Yuto Miyata</u> ,Takuya Yamamoto
1Pd112	Synthesis of guanidinylated aminopolysaccharides <u>Mizuki Kinai,</u> Hironori Izawa,Shinsuke Ifuku,Minoru Morimoto,Hiroyuki Saimoto
1Pc113	Anionic polysaccharide-sensing with excimer/monomer switching of a 1,8-naphthalimide derivative with a cationic receptor <u>Mayuko Wada</u> ,Hironori Izawa,Shinsuke Ifuku,Minoru Morimoto,Hiroyuki Saimoto

1Pd114 Development of bioadhesive using photo-curable chitin derivatives <u>Atsushi Sawada</u>,Junko Hashimoto,Hironori Izawa,Minoru Morimoto,Shinsuke Ifuku,Hiroyuki Saimoto

- 1Pc115 Acylation of chitin in ionic liquid <u>Hiroki Hirayama</u>,Junpei Yoshida,Kazuya Yamamoto,Jun-ichi Kadokawa
- 1Pd116 Synthesis of network materials composed of amylose inclusion complexes by vinetwining polymerization Saya Orio,Takuya Shoji,Kazuya Yamamoto,Jun-ichi Kadokawa
- 1Pc117 Fabrication of Hierarchical Structures by Means of Enzymatic Chain-elongation of Amylose Jun-ichi KADOKAWA,Naomichi EGASHIRA,Saya ORIO,Kazuya YAMAMOTO
- 1Pd118 Pickering emulsion polymerization using self-assembled chitin nanofibers Seiichiro Noguchi,Koki Sato,Kazuya Yamamoto,Jun-ichi Kadokawa
- 1Pc119 Enhanced mechanical properties of natural rubber with cellulose nanofiber prepared from octenyl succinic anhydride-modified pulp <u>Ryuji Hirase</u>,Asahiro Nagatani
- 1Pd120 Preparation of N-acetylglucosamine-modified silk fibroin and analysis of its interaction with lectins Yohko Gotoh,Toshimasa Yamazaki,Hirohiko Ise
- 1Pc121 Design of Benzoxaborole Group Pendent Polymers and Evaluation of Sugar Recognition Function as Artificial Lectin. Yasuhiro Nakagawa,Hiroaki Tateno,Mitsuhiro Ebara
- 1Pd122 Antiviral mechanism of sulfated polysaccharides <u>Tungalag Battulga</u>,Oyunjargal Tumurbaatar,Takashi Yoshida
- 1Pc123 Preparation and properties of chiral materials from LC cellulose derivatives Takuto Maeda, Takahiro Kakuta, Tomoki Ogoshi, <u>Tada-aki Yamagishi</u>, Akihiko Takada
- 1Pd124 Design and function of nanogel crosslinked porous gel with biodegradability <u>Ryo Hirose</u>,Shinichi Sawada,Sadaatsu Mukai,Yoshihiro Sasaki,Kazunari Akiyoshi
- 1Pc125 PH-dependent properties of phosphorylated polysaccharides gel Kohei SADARI, Takumi OKIHARA

Presentation Time

- <e = 15:00~15:40>
- <f = 15:40~16:20>

# A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 1Pe001
   Excited-state Aggregation and Chiral Complex Formation of a Near-infrared Dye

   Yue Wang,Rong Wang,Xinhua Wan,Tamaki Nakano
- 1Pf002 Synthesis and properties of metallo-supramolecular polymers using a bifunctional T8cage monomer Mari Hashimoto,Shunichi Fuji,Hiroaki Imoto,Kensuke Naka
- 1Pe003 Luminescence properties and structures of one-dimensional gold(I)-thiolate coordination polymer in solution
  - <u>Midori Murakami</u>,Riku Matsumine,Takeya Ono,Yukatsu Shichibu,Noriko Horimoto,Yasuhiro Ishida,Kasuaki Konishi
- 1Pf004 Preparation of Cluster Array Templates Composed of Dendrimer Supramolecular Polymer <u>Ken Minagawa</u>,Ken Albrecht,Narumi Miyata,Kimihisa Yamamoto
- 1Pe005 Molecular recognition in perylene diimide-based one dimensional aggregates <u>Kosuke Kamiya</u>,Masaya Okabe,Norifumi Fujita
- 1Pf006 Preparation of coordination polymer gel from phenol derivative <u>Kenta Saito</u>,Takahiro Kakuta,Tomoki Ogoshi,Tada-aki Yamagishi
- 1Pe007 Preparation of polymer alloys based on inclusion complex formation of st-PMMA and [60]fullerene <u>Kouta Kajihara</u>,Takehiro Kawauchi

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

1Pe009 Formation of nano-oriented crystals of P(VDF-TFE) in elongational crystallization Kiyoka OKADA, Toshiyuki FUKUSHIMA, Kyouhei SAWAKI, Ken OKANISHI, Taizo KABE, Hiroyasu MASUNAGA, Masamichi HIKOSAKA 1Pf010 Structure of vinylidene fluoride-based polymer at silver interface Masatoshi Ohura, Kanta Iwamoto, Yasuhiro Matsuda, Shigeru Tasaka Temperature-Dependent Morphological Properties in Thin Films of Polythiophene 1Pe011 Derivatives with Fluoroaryl Side-Chains Yuto Ochiai, Tomoya Higashihara 1Pf012 A Study on Crystallization of Furandicarboxylic Acid-derived Polyesters with Long Alkyl Groups Yunfan Zhang, Hironori Marubayashi, Shuichi Nojima Molecular weight and thickness dependence of crystallization kinetics in thin polymer 1Pe013 films Taiki Satou, Toshiyuki Kataoka, Takayuki Ikehara 1Pf014 Preparation of poly(p-phenylene terephthalamide) single crystal and annealing effect Tomoyasu Takaki, Yutaro Hara, Tetsuya Uchida Preparation of Biaxial Drawn Membrane of Ethylene-Styrene Random Copolymer and 1Pe015 Resultant Tensile Characteristics Analyzed by In-Situ X-ray Measurement Tsukino Fukushima, Ayako Masuda, Hiroki Uehara, Takesi Yamanobe, Hiroyasu Masunaga,Koki Aoyama 1Pf016 Microphase-separated structure of diblock copolymers comprising rod-like & alpha-helix polypeptide and coil amorphous segments Shiho Chiba, Minh anh Troung, Masatoshi Tokita 1Pe017 Synthesis and spherulitic growth rate of a crystalline triblock copolymers Yuki Ishisaki, Toshiyuki Kataoka, Takayuki Ikehara Effects of Uniaxial Elongation on Lamellar Microphase-Separated Structure of ABA 1Pf018 Triblock Copolymers Comprising a Main-Chain Liquid Crystalline Polyester B segment Junpei Kuribayashi, Masatoshi Tokita Effects of Chain-end Tethering and Nanodomain Size on the Crystallization of Polymer 1Pe019 Chains Confined in Lamellar Nanodomains Yuki Yoneguchi, Hironori Marubayashi, Takashi Ishizone, Shuichi Nojima, Kazuo Yamaguchi, Seiichi Nakahama Melt memory effect on the crystal growth of polymer spherulite 1Pf020 Ryoko Ogino, Akifumi Nabe, Masato Hashimoto, Tomoko Mizuguchi, Susumu Fujiwara Magnetic orientation using a permanent magnet of the layered structure formed from the 1Pe021 liquid crystalline polyester with alkyl side chains Daiki Shouji, Hiroaki Yoshimizu Crystalline Morphology of Crystalline ABC Star-Shaped Terpolymers 1Pf022 Satoshi Osawa, Kentaro Oishi, Raita Goseki, Hironori Marubayashi, Shuichi Nojima Fabrication and crystalline morphologies of polyamide brushes on Si substrates 1Pe023 Yuta Suzuki, Toshiyuki Kataoka, Takayuki Ikehara 1Pf024 CST behaviors of polymerized ionic liquid induced by metal nano particles Surabhi Gupta,Noriyoshi Matsumi 1Pe025 Crystallization and melting behaviors of polyoxamide crystals: Influence of hydrocarbonchains between the oxamide bonds. Gaku KONO, Makoto EZUMI, Koji NOZAKI, Akihiko TODA, Syuichi MAEDA, Tomoyuki NAKAGAWA Synthesis and spherulitic growth rate of a block copolymer consisting of 1Pf026 poly(hydroxybutyrate) and poly(ethylene oxide) Issei Tanaka, Toshiyuki Kataoka, Takayuki Ikehara

1Pe027	Development of 3D Hierarchical Structure Analysis by the Computer Simulation Technique for a Series of Wide-Angle and Small-Angle X-ray Scattering Data <u>Daisuke Tahara</u> ,Kohji Tashiro
1Pf028	Two-dimensional Correlation Raman Scattering Spectroscopy Analysis of the Reversible Helix-sense Inversion of Poly(β-phenylpropyl L-aspartate) in the Solid State <u>Yuki Matsumoto</u> ,Yuki Suzuki,Hidemine Furuya
1Pe029	Periodic structure change of crystalline polymers studied with temperature modulated X- ray diffractometry <u>Chihiro Nakai</u> ,Yasuo Saruyama,Haruhiko Yao,Soichi Tatsumi
1Pf030	Synthesis and spherulitic growth rates of crystalline/amorphous graft copolymer <u>Kyousuke Sugiura</u> ,Toshiyuki Kataoka,Takayuki Ikehara
1Pe031	Density fluctuations during induction period of crystallization in poly(trimetylene terephthalate) II <u>Takashi Konishi</u> ,Daisuke Tadokoro,Yoshitaka Kawahara,Koji Fukao,Yoshihisa Miyamoto
1Pf032	Effect of Intermolecular Hydrogen Bonds on the Infrared Absorption Spectra of Poly(vinyl Alcohol)-Iodine Complexes <u>Tomohiko Takahama</u> ,Kohji Tashiro
1Pe033	Success of X-ray Crystal Structure Analysis of Monomer and Polymer Single Crystals of Distyrylpyrazine and the Confirmation of Photo-induced Solid-State Polymerization Reaction Mechanism <u>Kohji Tashiro</u> ,Hiroko Yamamoto,Kunihisa Sugimoto,Masaki Hasegawa
1Pf034	Formation of Crystal-like Iodine Complex in the Oriented Amorphous Poly(vinyl Acetate) Sample Kohji Tashiro,Mengfan Wang
1Pe035	Investigation of Diffusion and Re-orientation in Iodine/Nylon 6 Complex [20]; Consideration for Re-orientation of Crystallite Induced by Inner Diffusion of Polyiodides.(5) - Difference in &alpha-Crystal Structure: Oriented Samples vs. Non- oriented Ones - <u>Akio Kawaguchi</u>
1Pe037	Investigation of Amphiphilic Molecules Containing Naphthalene Diimide Capable of Forming Monolayer Keiichirou HIRASHIMA,Shunsuke YAMAMOTO,Masaya MITSUISHI
1Pf038	Self-assembled Polydopamine-gelatin composite film formed at air/water interface <u>Hiroya Abe</u> ,Tomokazu Matsue,Hiroshi Yabu
1Pe039	RAFT Block Copolymerization and Monolayer Behavior of Amphiphilic Acrylamide Copolymer <u>Shunsuke Yamamoto,</u> Tokuji Miyashita,Masaya Mitsuishi
1Pf040	Formation of Gibbs Monolayers of Water-Soluble Biomolecules and Their Adsorbed Immobilization on Single Particle Layers of Organo-Modified Magnetic Nanoparticle <u>Takeru Yunoki</u> ,Shuhei Hirayama,Atsuhiro Fujimori
1Pe041	Formation of Single Particle Layer of Fluorinated Phosphonate-Modified Nanodiamond and their Nano-dispersion in Crystalline Fluorinated Polymer Matrix <u>Yifei Guo</u> ,Hiroki Machida,Shuichi Akasaka,Atsuhiro Fujimori
1Pf042	Attempt on Creation of Monolayer on the Water Surface and Nanohybridization with Polymers of Organo-Modified Single-Walled Carbon Nanotubes <u>Shuhei Hirayama</u> ,Takeru Yunoki,Atsuhiro Fujimori
1Pe043	Attempt of Stationary Nano-Dispersion of Organo-Modified Nanodiamond in Solvent Aimed for Lubricant Application and Observation of Behavior as Its Organized Film Formation <u>Hiroki Machida</u> , Yifei Guo, Atsuhiro Fujimori
1Pf044	Locomotion and stability control of particle-stabilized bubble capsules with photothermal property <u>Masaya ITO</u> ,Hisato KAWASHIMA,Hiroyuki MAYAMA,Yoshinobu NAKAMURA,Syuji FUJII
1Pe045	Liquid marble stabilized with micrometer-sized polymer particle monolayer

	Yuta ASAUMI,Hisato KAWASHIMA,Yoshinobu NAKAMURA,Syuji FUJII
1Pf046	Deformation of Hydrogel Microspheres at the Air/Water Interface <u>Haruka Minato</u> ,Masaya Takizawa,Takumi Watanabe,Daisuke Suzuki
1Pe047	Investigation of spatio-temporal structures of the Belousov-Zhabotinsky reaction in the presence of hydrogel microspheres <u>Keito Ishikawa</u> ,Kouhei Inui,Takumi Watanabe,Shusuke Matsui,Daisuke Suzuki
1Pf048	Assembly of microgel binary mixture at the Air-water interface <u>Kenshiro Honda</u> ,Takumi Watanabe,Yuka Saduka,Masaya Takizawa,Daisuke Suzuki
1Pe049	Preparation of Functionalized Cellulose Particles Utilizing TEMPO oxidation <u>Yuki Fujii</u> ,Kaori Imagawa,Taro Omura,Toyoko Suzuki,Hideto Minami
1Pf050	Preparation of Poly(ionic liquid) Particles Having Cation Exchange Property <u>Takanori Nakano</u> ,Mitsuyosi Yamane,Aya Kurozuka,Hideto Minami
1Pe051	Element-block polymer particles synthesized by stabilizer-assisted polymerization- induced self assembly dispersion polymerization <u>Haruka HANOCHI,</u> Nobuaki NISHIZAWA,Yoshinobu NAKAMURA,Syuji FUJII
1Pf052	Fabrication of Nano-Line Patterns composed of Organic / Inorganic Hybrid by bio- mineralization. <u>Kanta Fujiwara</u> ,Airi Yajima,Takatoshi Kinoshita,Masahiro Higuchi
1Pe053	Preparation of Temperature-Responsive Fluorescent Probe Using DNA-Conjugated Polymer <u>Takafumi Sako,</u> Masahiro Fujita,Mizuo Maeda
1Pf054	Inclusion of Metal Cations in Hollow Nanofibers with Hydrophilic Interior Consisting of Cyclic Peptide Amphiphiles <u>Kosuke Morimoto</u> ,Shota Sasaki,Isamu Akiba
1Pe055	Synthesis of silica capsules templating W/O emulsion by SPG method <u>Hana Kiyosawa</u> ,Kaoru Kuramochi,Reiko Saito
1Pf056	Preparation of various amylose nanocapsules and examination of their one-dimensional fusion behavior. <u>Masahiro Norikuni</u> ,Masashi Wada,Hajime Shigemitsu,Toshiyuki Kida
1Pe057	Magneto-responsive and NIR excitable SERS particles based on polymer core-shell particles. Yutaro Hirai,Yasutaka Matsuo,Hiroshi Yabu
	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS
1Pe059	Evaluation of diffusion behavior of heavy metal ions through the polymeric spiropyran gel by color changes analysis. <u>Masahide Shimazaki</u> ,Takayuki Suzuki
1Pf060	Logistic regression analysis of pH-responsible polymer gels showing color change. <u>Mami Igarashi</u> ,Takayuki Suzuki

- 1Pe061 Thermodynamic evaluation of oxygen-binding reaction in crosslinked membrans of polymeric cobalt(II) salen complexes. <u>Kyohei Tomura</u>,Takayuki Suzuki
- 1Pf062 Hollow Sphere Organic Nanocapsules with Stimuli Responsive Properties <u>Masaki Kogiso</u>,Yusuke Hara
- 1Pe063 Fabrication of nano-structured coacervates using mixture of ABA- and AB- type block copolymers and evaluation of the temperature dependency of their nanostructures <u>Takumi Egashira</u>,Yujiro Hamada,Takeshi Mori,Yoshiki Katayama,Akihiro Kishimura
- 1Pf064 Incorporation of metal nanoparticles into nano-structured polyion complexes prepared from ABA type all-hydrophilic triblock copolymer and evaluation of its viscoelastic property Yujiro Hamada,<u>Takumi Egashira</u>,Yuji Higaki,Ken Kojio,Atsushi Takahara,Takeshi Mori,Yoshiki Katayama,Akihiro Kishimura

1Pe065	Fabrication of Functionalized Polymer Particles with beta-diketone Groups <u>mikiya Yamamoto</u> ,Michinari Kohri,Tatsuo Taniguchi,Keiki Kishikawa
1Pf066	Preparation of colorless magnetic particles functionalized by magnetically responsive polymer brushes <u>Kotona Kohaku</u> ,Michinari Kohri,Tatsuo Taniguchi,Keiki Kishikawa
1Pe067	Preparation of funcrional polymeric microspheres that allows controlled uptake and release halogen compounds <u>Yuichiro Nishizawa</u> ,Takuma Kureha,Daisuke Suzuki
1Pf068	Synthesis of functional microspheres crosslinked with rotaxane structure <u>Seina Hiroshige</u> ,Takuma Kureha,Jun Sawada,Daisuke Aoki,Toshikazu Takata,Daisuke Suzuki
1Pe069	Fabrication of functional shape memory particles that function at body temperature <u>Koichiro Uto</u> ,Mitsuhiro Ebara
1Pf070	Fabrication of biodegradable polymer thin films with nanopatterns for tissue engineering application <u>Koichiro Uto</u> ,Takao Aoyagi,Deok-Ho Kim,Mitsuhiro Ebara
1Pe071	Design of shape memory nanofiber mesh for mechanobiology study Kanta Tanabe,Eri Niiyama, <u>Koichiro Uto</u> ,Mitsuhiro Ebara
1Pf072	Fabrication and application of AOB-entrapping macroporous gel beads <u>Ryo Aoyagi</u> ,Ryuichi Sato,Akihiko Terada,Hideaki Tokuyama
1Pe073	Preparation and Characterization of Films Composed of Filamentous Viruses Based on the Control of their Assembled Structure <u>Naoki Ueda</u> ,Toshiki Sawada,Hironori Marubayashi,Shuichi Nojima,Takeshi Serizawa
1Pf074	3D Network formation of Self-assembled Cellulose Oligomers <u>Tohru Maeda</u> ,Toshiki Sawada,Takeshi Serizawa
1Pe075	Preparation of hybrid gel of synthetic polymer and biopolymer cross-linked by amino acid modified with vinyl group through enzymatic reaction <u>Tomoaki SHIMADA</u> ,Masaki NAKAHATA,Shinji SAKAI,Masahito TAYA
1Pf076	High functionalization by control of introduction amount of hydrophilic group of gel ointment base using PEO having allyl group and PO unit in side chain <u>Yuto Funato</u> ,Keiji Yamashita,Yasuhiro Noda
1Pe077	Preparation and thermo response of glucomannan-carrageenan gel <u>Koumei Harajiri</u>
1Pf078	Lithographic fabrication of semi 3-D hydrogel microstructures for novel cell culture systems <u>Atsushi Tsuyukubo</u> ,Kimio Sumaru,Toshiyuki Kanamori
1Pe079	Drug release of temperature-responsive hydrogel prepared from physically cross-linking chitosan and poly(N-isopropylacrylamide). <u>Hiroki Ueoka,</u> Osamu Shimomura,Kayoko Ueda,Katsuhiro Inada,Ryoki Nomura
1Pf080	Cytotoxicity evaluation of supramolecular gelators that are highly responsive to a small pH change <u>Shota Yamamoto,</u> Yuki Nishida,Tomoyuki Morimoto,Tatsuo Maruyama
1Pe081	Synthesis and O <sub>2</sub> -Binding Property of Hydrogel Containing Hemoglobin-Albumin Cluster <u>Tomonori Kashima</u> ,Kazuki Osada,Yoshitsugu Morita,Teruyuki Komatsu
1Pf082	Preparation and Mechanical Properties of Poly(vinyl Alcohol) Hydrogel Composite Materials for the Application to Organ Model <u>Yutaka Kasai</u> ,Tooru Okayama
1Pe083	Simple Functionalization of Poly(vinyl alcohol) (PVA) using Benzoxaborole-based Copolymers <u>Yoko Kudo</u> ,Yohei Kotsuchibashi
1Pe085	Optical properties of epoxy resin/ZrO <sub>2</sub> nanoparticles hybrids prepared by surface modifier-free hybridization <u>Kazushi Enomoto</u> ,Moriya Kikuchi,Atsushi Narumi,Seigou Kawaguchi

10000	
1Pf086	Palladium Nanoparticle Electrocatalysts Prepared via Elimination of Surface Passivation <u>Hiroki Minami</u> ,Hideyuki Nakanishi,Tomohisa Norisuye,Qui Tran-Cong-Miyata
1Pe087	Improvement of mechanical property of a metal-organic framework by polymer introduction <u>Tomoya Iizuka</u> ,Kayako Honjo,Takashi Uemura
1Pf088	Synthesis of metal complex consisting of asymmetric π-conjugated oligomers <u>Mizuki Okawa</u> ,Fumihito Amemiya,Kimihisa Yamamoto,Takane Imaoka
1Pe089	Influence of Fiber Modification on Mechanical Properties of Cellulose Nanofiber/Epoxy Composites
	Nao Mizuno, Kenji Nagata, Shotaro Sago
1Pf090	An Alternating Copolymer of Arsole and Fluorene Exhibiting Highly Efficient Single Oxygen Generation
	<u>Susumu Tanaka</u> ,Hiroaki Imoto,Toshiaki Enoki,Yousuke Ooyama,Joji Ohshita,Kensuke Naka
1Pe091	Influence of Polymer Matorix on Electrical conductive properties of graphene / PS / PC Composites <u>Akihiro Kondo</u> ,Kenji Nagata
1Pf092	Thermal conductivity control of graphite-polymer composite sheet using orientation-
	promoting particles <u>Naoki Kawamoto</u> ,Nanami Hano,Koji Ashiba,Aki Koukami,Keigo Oowashi,Shoji
	Nozato,Yutaka Kuwahara,Makoto Takafuji,Hirotaka Ihara
1Pe093	ZnO nanorod growth on β-diketone-containing polymer film <u>Yuki Wakai</u> ,Shunsuke Yamamoto,Masaya Mitsuishi
1Pf094	Preparation of organic-inorganic hybrid capsules utilizing biodegradable coacervate
	droplets toward bone regeneration Yui Ikedo, <u>Syuuhei Komatsu</u> ,Taka-Aki Asoh,Ryo Ishihara,Akihiko Kikuchi
1Pe095	Biaxial stretching of inorganic nanosheet/pNIPA composite gel film with macroscopic in-
	plane anisotropy <u>Takumi Inadomi</u> ,Nobuyoshi Miyamoto,Kenji Urayama
1Pf096	Macrocyclic Platinum Thiolate Oligomers for Atom Precise Synthesis of Platinum Clusters <u>Yuki Akanuma</u> ,Takane Imaoka,Kimihisa Yamamoto
1Pe097	Characterization of crystalline and amorphous $ZrO_2$ nano-particles, and preparation of hybrid materials
	Masahiko Nakano,Kazushi Enomoto,Moriya Kikuchi,Seigou Kawaguchi
1Pf098	Mechanical properties of polyamide with cellulose nanofiber (CNF) modified by Cardo
	material <u>Hirokazu Sato</u> ,Katsuhisa Tokumitsu,Hiroki Takeshita,Akihiro Yamada,Masayuki Sugimoto
1Pe099	Highly sensitive photofabrication of organic-inorganic hybrid coating films having
	gradient structure by using thioxanthone-type photobase generators <u>Ayano Sasaki</u> ,Koki Takeue,Masahiro Furutani,Koji Arimitsu
1Pf100	Preparation of surface-modified titania particles with polysilanes and evaluation of their
	photocatalytic activities <u>Miki Kudo,</u> Masahiro Furutani,Koji Arimitsu
1Pe101	Electrical and Mechanical Properties of Conducting Polymer/Polyurethane Composites <u>Kazumasa Marumo</u> ,YingJun An,Kazuki Kudo,Hirokazu Yano,Hidenori Okuzaki
1Pf102	Toughening of epoxy resins and carbon fiber-reinforced plastics (CFRPs) with core-shell
	particles containing functional groups <u>Takahiro Kawauchi</u> ,Michio Urushizaki,Toshikazu Sakaguchi,Tamotsu Hashimoto,kazumasa Kawabe,Keiichi Kondo,Hirohumi Iyo
1Pe103	
116103	Development of composite of UHMWPE and MWCNT by the process utilizing microwave heating <u>Takumi OKIHARA</u> ,Kazuki MIYAMAE

- 1Pe105 Synthesis and Solid-State Emission of Pentaarylarsoles and Gold(I) complexes <u>Aya Urushizaki</u>,Ikuo Kawashima,Hiroaki Imoto,Kensuke Naka
- 1Pf106 Cytotoxicity evaluation of tyrosin-containing peptide lipids <u>Kanon Nishimura</u>,Shota Yamamoto,Takashi Aoi,Tatsuo Maruyama
- 1Pe107 Control of Self-organized structures made from 9,9'-bifluornylidene derivatives <u>Kengo Kuribayashi</u>,Mutsumi Kimura
- 1Pf108 Syntheses of organoarsenic ligands by using practical carbon-arsenic bond formation reactions and their transition metal complexes Masafumi Konishi,Hiroshi Sasaki,Hiroaki Imoto,Kensuke Naka
- 1Pe109 Preparation of Densely Hydrogen Bonded Polymer Blends and Their Healing Properties <u>Yiling Nan</u>,Yu Yanagisawa,Takuzo Aida

## D. BIOPOLYMERS AND BIORELATED POLYMERS

- 1Pe111Synthesis of amino acid-derived vinyl polymer containing fluorescent moiety and<br/>application to thermosensor<br/><br/>Erina Takaoka,Nobuyuki Higashi,Tomoyuki Koga
- 1Pf112 Synthesis of novel block copolymer composed of amino acid-derived vinyl polymer and PEG and its gelation properties. <u>Yuki Hashimoto</u>,Nobuyuki Higashi,Tomoyuki Koga
- 1Pe113 UCST-type thermosensitivity of phenylalanine-modified dendrimers with carboxy termini <u>Mamiko Tamaki</u>,Daichi Fukushima,Chie Kojima
- 1Pf114 Design of single layer beta-hairpin peptides and peptide hydrogel incorporating the RGDS sequence Ryosuke Yokokawa,Sachiro Kakinoki,Yoshiaki Hirano
- 1Pe115 Synthesis and platelet adhesion property of hyperbranched poly(L-lactide)s having hydrophilic terminals Mitsutoshi Jikei,Yuuki Kobayashi,Kazuya Matsumoto,Noriko Tan,Shigeharu Ueki
- 1Pf116 Synthesis and evaluation of benzoxaborole containing polymers having sugar chain affinity (II) - Effect of boronic acid species on sugar binding ability yuui suzuki,masahiro fuzita,yuko takeoka,masahiro rikukawa
- 1Pe117 pH-response properties of carboxylated poly-L-lysine with various spacer structure <u>Yasumichi Yazaki</u>,Eiji Yuba,Atsushi Harada
- 1Pf118 Control and function of membrane morphogenesis by manipulation of nanoparticles <u>Fumihito Inoue</u>,Yoshihiro Sasaki,Shin-ichi Sawada,Kazunari Akiyoshi
- 1Pe119 Observation of microstructures of swelling samples by the Nanosuit SEM and microCT methods Rin Kadowaki,Daisuke Ishii
- 1Pf120 Fabrication and characterization of biomimetic microfine channel structures by template procedure Tarou Yaeo,Daisuke Ishii
- 1Pe121 Preparation of firebrat's scale mimicking surfaces using cross-linked PVA <u>Shun Uemura</u>,Yuji Hirai,Masatsugu Shimomura
- 1Pf122 Adhesive Force Measurement of Tentacles of Live Cypris Larvae in Sea Water <u>Yuka Yamaguchi</u>,Shohei Shiomoto,Kazuo Yamaguchi,Yasuyuki Nogata,Motoyasu Kobayashi
- 1Pe123 Preparation and Characterization of Collgagen/Hydroxyapatite Hybrid Structures <u>Yadong Chai</u>,Mitsuhiro Okuda,Motohiro Tagaya
- 1Pf124 Structural control of the ordered nano-space composed of grafted nucleo-peptide assembly and biomineralization using the nano-spaces as template <u>Sayaka Minoshima</u>,Kaede Inagaki,Masahiro Higuchi,Takatoshi Kinishita

2Pa001

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

Precise synthesis of photo-responsive polymers by controlled cationic polymerization

Haruna Kagosaki, Arihiro Kanazawa, Sadahito Aoshima 2Pb002 Synthesis of pendant polymers utilizing incompletely condensed cage silsesquioxanes as monomers Ryoichi Katoh, Hiroaki Imoto, Kensuke Naka 2Pa003 Synthesis of ladder-type polymer by direct arylation of polystyrene derivatives Hidetoshi Tanaka,Koji Takagi 2Pb004 Effects of topology on the self-assembly of amphiphilic block copolymer having AIE properties Shinichi Yamamoto, Muhammad Fardana, Tomoyuki Ono, Shotaro Hayashi, Toshio Koizumi 2Pa005 Properties and Functionalization of Star Polymers with Many Hydrophobic Arms Riona Mukai, Chisato Maezawa, Shohei Ida, Shokyoku Kanaoka 2Pb006 Newly found characteristics of core-crosslinked star polymers with ordinary chemical structures Shokyoku Kanaoka, Yuri Toyama, Chisato Maezawa, Keisuke Takimoto, Shohei Ida Synthesis and thermoresponsive properties of a star polymer based on polyoxazoline 2Pa007 Akari Yamada, Masato Kishiwaki, Keigo Aoi 2Pb008 Synthesis and oxidation-reduction potential of poly(acrylic acid) star polymer composed with  $\beta$ -cyclodextrin as a core Arashi Havami.Reiko Saito 2Pa009 Synthesis and Self-Assembly Behavior of Tripodal Triptycene-Appended Vinylic Polymers and Copolymers Haonan Liu, Fumitaka Ishiwari, Takashi Kajitani, Takanori Fukushima 2Pb010 Coordination Star Polymers: Synthesis of Branched Macromolecules with a Nanocage Core Nobuhiko Hosono, Susumu Kitagawa Synthesis and Microphase Separation Behaviors of Star-Block Copolymers Consisting of 2Pa011 Polycaprolactone and Maltotriose Takuya Isono, Nao Kawakami, Redouane Borsali, Kenji Tajima, Toshifumi Satoh 2Pb012 One-pot synthesis of 3-component hyperbranched copolymer from 9,9-Bis(4aminophenyl)fluorene, m-Phenylenediamine, Cyanuric chliride Rina Sasahara, Yoshiyuki Oishi, Yuji Shibasaki Synthesis of multicyclic telechelic precursors and their grafting processes for the 2Pa013 amplification of topological effect Tsubasa Taniguchi, Syansyan Chan, Takuya Yamamoto, Yasuyuki Tezuka Polycondensation of methacrylates through dimerization and transesterification reaction 2Pa015 Aoi Fukumoto, Miharu Arimoto, Shin-ichi Matsuoka, Masato Suzuki 2Pb016 Tail-to-tail dimerization of functionalized (meth)acrylates catalyzed by N-heterocyclic carbene and application to polyaddition Hiroki Kawai, Shin-ichi Matsuoka, Masahito Suzuki Synthesis of Polyesters by Hydrogen-Transfer and Condensation-Addition 2Pa017 Polymerizations of Acrylic Acid Shin-ichi Matsuoka, Takuya Murase, Masato Suzuki 2Pb018 Polymerization reactions of tetraethoxysilane in the presence of glass beads studied by Pv-GC-MS and high-resolution MALDI-MS Eri Sakamoto, Hajime Ohtani, Masuo Iida 2Pa019 Synthesis of Polyurethanes through Polyaddition of 1,1'-Bi(2-naphthol) with

	Diisocyanates <u>Heshuang Dai</u> ,Yue Wang,Tamaki Nakano
2Pb020	Development of soluble wholly aromatic polyurethane by using aromatic diols <u>Satoshi Aihara</u> ,Katsuya Maeyama
2Pa021	Development of heat-resistant aromatic polyketones using a trifunctional acyl-acceptant monomer <u>Motohiro Omiya</u> ,Katuya Maeyama
2Pb022	Construction of Azobenzene-Based Photoisomerization/Depolymerization System of Polyamide/Phenyleneethynylenes <u>Shinichi Iba</u> ,Takahiro Ishida,Fumio Sanda
2Pa023	Synthesis of poly(conjugated ester) by polycondensation of α-(chloromethyl)acryloyl chloride via acyl- and conjugate-substitution <u>Koki Nagai</u> ,Takumi Miyazaki,Yasuhiro Kohsaka
2Pb024	Synthesis of poly(conjugated diene) with 1,3-butadiene backbone via polycondensation of allyl halide dimer <u>Akira Hiramatsu</u> ,Yasuhiro Kohsaka,Keito Hagiwara
2Pa025	Synthesis of polymers with imine linkages by polycondensation of diformylated N-hetero- ortho-phenylenes and diamines <u>Yoshihiro Hamada</u> ,Yuichiro Tokoro,Toshiyuki Oyama
2Pb026	Intramolecular transfer of Pd catalyst on two bromoarylenes connected to various functional groups and their application to unstoichiometric polycondensation <u>Natsumi Harada</u> ,hajime Sugita,Yoshihiro Ohta,tsutomu Yokozawa
2Pa027	Synthesis of hydrogen-bonded complexes between a bisoxazoline with a dicarboxylic acid and their polyaddition within themselves. <u>Hideto Goshima</u> ,Masatoshi Miyamoto
2Pb028	Attempt to synthesize of highly crosslinked polymers by polyaddition reaction between bis-oxazine and tri- or tetrafunctional carboxylic acid. <u>Yuichi Okamoto</u> ,Masatoshi Miyamoto
2Pa029	Copper(I)-catalyzed azide-alkyne cycloaddition of <i>N</i> -ethynyl-4-azidobenzenesulfonylamide derivatives <u>Tatsuya Harada</u> ,Akihito Hashidzume
2Pb030	Copper(I)-Catalyzed Azide-Alkyne Cycloaddition (CuAAC) Polymerization of 3-Azido-1- propyne Derivatives: Polymerization and Stepwise Oligomerization of <i>tert</i> -Butyl 4- Azidohex-5-ynoate by CuAAC <u>Shota Yamasaki</u> ,Akihito Hashidzume
2Pa031	Synthesis of end-functionalized linear polyester by means of transesterification of cyclic polyester, obtained by A <sub>2</sub> + B <sub>2</sub> polycondensation, with diester <u>Ryouichi Okabayashi</u> , Yoshihiro Ohta, Tsutomu Yokozawa
2Pb032	Functionalization of both ends of poly(ether sulfone) by means of A <sub>2</sub> + B <sub>2</sub> polycondensation using exchange reagent <u>Kenichiro Shirai,</u> Ryouichi Okabayashi,Yoshihiro Ohta,Tsutomu Yokozawa
2Pa033	Synthesis of cyclic unsaturated polyester by means of unstoichiometric Suzuki-Miyaura coupling polymerization and control over molecular weight and end-functional groups by cross metathesis with functional alkenes <u>Tsuyoshi NAMEKAWA</u> , Yoshihiro OHTA, Tsutomu YOKOZAWA
2Pb034	Synthesis of cyclic poly(stilbene-phenylene) by means of unstoichiometric Suzuki- Miyaura coupling polymerization and control over molecular weight and end-functional groups by cross metathesis with functional alkenes <u>Naoki Tanaka</u> ,Tsuyoshi Namekawa,Yoshihiro Ohta,Tsutomu Yokozawa
2Pa035	Synthesis of cyclic polyphenylene with halogen moieties and grafting <u>Taisuke KIMURA</u> ,Hajime SUGITA,Yoshihiro OHTA,Tsutomu YOKOZAWA
2Pb036	Control of Regioselectivity during Oxidative Coupling Copolymerization of 2,6- Dimethylphenol with Alkoxyphenols <u>Daisuke YASUE</u> ,Minami KIMURA,Yuki TAKAMUSI,Shigeki HABAUE

- 2Pa037 Synthesis of polythioamides from aliphatic diamines and sulfur Masaru Yoneyama,Takeshi Yamanobe,<u>Arisa Moriyama</u>
- 2Pb038 Self-polycondensation of AB-type monomer via protonation-deprotonation in superacid Shuko Hasegawa,Kazuya Matsumoto,Mitsutoshi Jikei
- 2Pa039 Synthesis of Novel Siloxane-Based Polymers Having Fluoroalkyl Chains. <u>Kazuhiko Machida</u>,Nobukatsu Nemoto,Tsuyoshi Noguchi
- 2Pb040 Synthesis of linear polyester by mean of A<sub>2</sub> + B<sub>2</sub> condensation polymerization via esterester exchange reaction <u>Takayoshi Katoh</u>,Yukiko Ogawa,Yoshihiro Ohta,Tsutomu Yokozawa
- 2Pa041 Synthesis of Imidazole-containing Polymers by Three-component Polymerization and Their Application for Functionalized Materials <u>Susumu Soga</u>,Makoto Sakata,Hiroki Nishiyama,Shinsuke Inagi,Ikuyoshi Tomita

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

- 2Pa043 New Type of Network Polymer Based on Low Temperature Curable New Thermosetting Imide Compound <u>Hajime Kimura</u>,Keiko Ohtsuka,Akihiro Matsumoto,Morio Yonekawa
- 2Pb044 Preparation of thermoresponsive gel from polymerizable functional group-containing cellulose derivatives using photopolymerization <u>Yuuki Ehara</u>,Toru Hoshi,Takao Aoyagi
- 2Pa045 Preparation of metallo-supramolecular polyesters utilizing coordination bonds between pyridine units and metal ions Keisuke Shibata,Mikihiro Hayashi,Akinori Takasu
- 2Pb046 Synthesis and Structural properties of hydrogel having a sodium p-styrenesulfonate skeleton
   <u>Marina Hoshino</u>, Hayata Takeda, Daisuke Nagai, Masaru Yoneyama, Hiroki Uehara, Takeshi Yamanobe, Shinzi Ozoe
- 2Pa047 Synthesis and properties of joint-linker type gels and porous polymers from multifunctional amine compounds and poly(ethylene glycol) diacrylate <u>Mitsusuke sato</u>,kensuke Mori,Naofumi Naga,Hassan Nageh,Tamaki Nakano
- 2Pa049 Investigation on Mechanism of Intermolecular Trans-Esterification Based Gelation for Linear Polyester Including Multiple Free OH Groups <u>Ryoto Yano, Mikihiro Hayashi, Akinori Takasu</u>
- 2Pb050 Structure and mechanical property of polyrotaxane/clay composite gel <u>Takeya Aoki</u>,Koichi Mayumi,Rina Maeda,Hideaki Yokoyama,Kohzo Ito
- 2Pa051 Synthesis and Physical Properties of Copolymer Gels composed of Homogeneous Network Structure with Different Monomer Arrangement <u>Dowoo Kwon</u>,Yuto Jochi,Yukikazu Takeoka,Takahiro Seki,kotaro Satoh,Masami Kamigaito
- 2Pb052 Viscoelasticity of Crosslinked Polydimethylsiloxane (PDMS) Particles in Suspension Probed by Ultrasound Scattering Techniques Kazuto Tsuji,Tomohisa Norisuye,Hideyuki Nakanishi,Qui Tran-Cong-Miyata
- 2Pa053 Structure and Elastic Property of Porous Films Investigated by Air-Coupled Ultrasonic Spectroscopy
  - <u>Takuya Yoshioka</u>,Tomohisa Norisuye,Hideyuki Nakanishi,Qui Tran-Cong-Miyata
- 2Pb054 Development of tough inorganic/organic ion gels composed of silica particle-based nanoclusters as sacrificial bonds Tomoki Yasui,Eiji Kamio,Yu Iida,Hideto Matsuyama
- 2Pa055 Preparation of Anhydrous Proton Conductive Membranes Swollen with Nonvolatile Acidic Liquids
  - <u>Takato KAJITA</u>,Haruka TANAKA,Atsushi NORO,Yushu MATSUSHITA,Naoki NAKAMURA
- 2Pb056 Preparation and Characteristics of Ion-Conductive Soft Elastomers <u>Atsushi NORO</u>, Takuya HAYASHI, Takato KAJITA, yushu MATSUSHITA

2Pa057	Development of high toughness inorganic-organic composite material by complexing colloidal crystals of silica fine particles and visualization of stress <u>eiji miwa</u> ,kenta watanabe,yukikazu takeoka,takahiro seki,kenji urayama
2Pb058	The synthesis of polymer gel with homogeneous network structure consisting of star methacrylate polymer <u>Yusuke Baba</u> ,Dowoo Kwon,Yuumi okaya,Yuto Jyochi,Yukikazu Takeoka,Takahiro Seki,Kotaro Sato,Masami Kamigaito
2Pa059	Large deformation behavior of slide-ring gels with different ring coverage ratio <u>Chang Liu</u> ,Kyohei Hayashi,Lan Jiang,Koichi Mayumi,Hideaki Yokoyama,Kohzo Ito
2Pb060	Synthesis and mechanical property of rotaxane-based polyurethane <u>Jun Sawada</u> ,Hiromitsu Sogawa,Toshikazu Takata
2Pa061	Preparation and Mechanical Properties of Chemically Cross-linked Elastomers Having Polypeptide as Crosslinking Point <u>Yunosuke Tsuboi</u> ,Syogo Nobukawa,Hideki Sugimoto,Katsuhiro Inomata
2Pb062	Preparation and mechanical properties of physically cross-linked polyurea elastomer containing polypeptide blocks. <u>Yuma Sawada</u> ,Yunosuke Tsuboi,Syogo Nobukawa,Hideki Sugimoto,Katsuhiro Inomata
2Pa063	High Tg effect by addition of tetrafunctional mesogenic epoxy resin <u>Yuuka Fujiwara</u> ,Miyuki Harada
2Pb064	Influence of curing agent and curing temperature on ordered network structure and toughness of liquid crystalline epoxy resins Kousuke Yamaguchi, <u>Takuya Matsumoto</u> ,Miyuki Harada
2Pa065	Theoretical study of mechanical properties of gels consisting of polymer network and nanoparticle <u>Tsutomu Furuya</u> ,Keita Yamamoto,Tsuyoshi Koga
2Pb066	Effects of hydrophobically modification on mechanical properties of elastin hydrogels <u>Yuki Nakayama</u> ,Ryota Azumi,Shogo Nobukawa,Hideki Sugimoto,Shukei Sugita,Katsuhiro Inomata
2Pa067	Study in structure of physical cross-linking point of nanocomposite gel by using transition enthalpy <u>Masafumi Yamato</u> ,Kazumasa Komine,Hiroyoshi Kawakami
2Pb068	Properties of epoxy resin modified with polyrotaxane as stress relaxation material <u>Keiko OHTSUKA</u> ,Hajime KIMURA,Morio YONEKAWA
	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 2Pb070 Syntheses and properties of narrow-bandgap polymers (16) Synthesis of a novel narrow bandgap polymer for application to organic thin film solar cell <u>Taisuke Karasuda</u>, Haoxuan GUO, Hiroyuki Aota
- 2Pa071 Syntheses and properties of narrow-bandgap polymers(17) Syntheses of narrow bandgap polymers having reactive groups for crosslinking <u>Yusuke Imai</u>, Takahiro Ohashi, Haoxuan GUO, Hiroyuki Aota
- 2Pb072 step-π-conjugated polymers (24) Synthesis and evaluation of amphiphilic A, B-block type macromolecular wire with energy level difference in molecule wire. <u>Sora Hirata</u>,Haoxuan Guo,Hiroyuki Aota
- 2Pa073 Step-π-conjugated polymers (25) Synthesis of benzene type amphiphilic macromolecular wire for long-lived charge separation state. <u>Misa Nishimura</u>,Chihiro Fujiwara,Haoxuan GUO,Hiroyuki Aota
- 2Pb074 Photoformation of Surface Relief on Mixed Thin Film of Bislophine Derivative and 5CB <u>Masaki Hatase</u>,Masato Toyoda,Takashi Ubukata
- 2Pa075 Photoinduced cratering behavior in liquid crystalline (LC) polymer heterointerfaces <u>Kazuaki Oishi,</u>Issei Kitamura,Mitsuo Hara,Shusaku Nagano,Takahiro Seki
- 2Pb076 Photo-isomerization and birefringence change of polycarbonate film doped azobenzene

Asami Hara, Shogo Nobukawa, Katsuhiro Inomata 2Pa077 Photoalighnment of Hetero-Smectic Lamellar Structure of LC Random Copolymer with Azobenzene monomer and acrylic acid Kota Suetsugu, Ryosuke Goto, Mitsuo Hara, Shusaku Nagano, Takahiro Seki Photocontrol of mesogen alignment and appeared higher ordered smectic phases by 2Pb078 means of random copolymerization of different oriented mesogens Ryota Imanishi, Mitsuo Hara, Shusaku Nagano, Takahiro Seki 2Pa079 New angle-independent color materials by Mie resonances Yui Naoi, Yukikazu Takeoka, Takahiro Seki 2Pb080 Synthesis and Optical Properties of Phosphine Oxide-containing Aromatic Poly(ether)s Ryoyu Hifumi, Ikuyoshi Tomita Refractive index of transparent cellulose nanopaper 2Pa081 Norihisa Tanio, Atsushi Hatano, Yuto Ueno, Sugumi Matsushita, Hitomi Yagyu, Masaya Nogi 2Pb082 Reflective and transmissive type conductive polymer film electrochromic devices using semi-solid electrolyte Kouki Kumagai, Atusi Aoki, Shota Makiura, Sigeki Watanabe 2Pa083 Development of molecular resist material based on tellurium compound for extrem ultraviolet laser Yoshiaki Iwamoto,Hiroto Kudo 2Pb084 Positive-tone photopatterning of chemically-modified polyhydroxyimide with photobase generators Misaki Takashima, Yasutaka Mitsui, Masahiro Furutani, Koji Arimitsu 2Pa085 Photopatterning of polysilane films sensitized with photobase generators to generate superbases Shun Kikuchi,Kunihiro Noda,Dai Shiota,Masahiro Furutani,Koji Arimitsu 2Pb086 Photosensitivity enhancement of chemically amplified resist materials by acid amplifiers generating superacids kyohei Akiyama, Masahiro Furutani, Koji Arimitsu 2Pa087 Study on high-photosensitive radical UV curing systems of methacrylate monomers Yuina Kokai, Masahiro Furutani, Koji Arimitsu 2Pb088 Photoinitiated radical polymerization with charge transfer complexes absorbing visible light Kengo Takemura, Masahiro Furutani, Koji Arimitsu 2Pb090 Photocatalytic reaction by metal complexes accumulated on normally oriented onedimensional cylindrical channel surface Keita Nakao, Yoshiaki Tanio, Shigeo Suita, Shinichi Sakurai, Sadayuki Asaoka Gas transport properties of polybenzoxazole-silica hybrid membranes prepared by 2Pa091 different thermal treatments Azumi Saito, Tomoyuki Suzuki 2Pb092 Preparation of high gas permeable polyimide - silica hybrid membranes Shou Yamasaki, Tomoyuki Suzuki 2Pa093 Water Permeation Behavior of Vertically-Aligned Carbon Nanotube Array/Polymer **Composite Membranes** Hidetoshi Matsumoto, Shiho Shirahama, Shaoling Zhang, Motohiro Aiba, Hirotaka Inoue, Yasuhiko Hayashi, Shuji Tsuruoka 2Pb094 Polymeric photosensitizer mediated cross-coupling reactions via photoinduced electron transfer Gen-ichi Konishi, Yusuke Matsufuji, Kazuhiko Mizuno 2Pa095 Synthesis of cinchona alkaloid squaramide polymer which incorporated peptide in the main chain and its application to an asymmetric catalyst Yuki Gonda,Ikuhide Fujisawa,Naoki Haraguchi,Shinichi Itsuno 2Pb096 Gas permeation properties of composite membranes containing surface-modified silica

nanoparticles. Takuya Muramoto, Hiroto Mikami, Manabu Tanaka, Masafumi Yamato, Hiroyoshi Kawakami Synthesis and gas permeability of fluorine-containing novel poly (diphenylacetylene) 2Pa097 Keita Inoue, Toshikazu Sakaguchi, Tamotsu Hashimoto 2Pb098 Synthesis and biosensing of polythiophene having phosphonium group (III) -Analysis of DNA sensing -Kiyoshiro Fukui, Masahiro Fujita, Yuko Takeoka, Masahiro Rikukawa 2Pa099 Control of Permeability for Crosslinked Microporous Parylene Nanofilms Takeshi Shii,Mutsumi Kimura 2Pb100 Synthesis of high gas-permeable polymers with bulky twisted structure in the main chain and improvement of the gas separation performance takaaki kamimizu,toshikazu sakaguchi,tamotsu hashimoto 2Pa101 Gas Separation Properties in Polyimide Membranes with Molecular Sieve-like Chemical/Physical Dual Crosslinking Ryosui Iwasa, Takahiro Suizu, Haruka Yamaji, Tetsuro Yoshioka, Kazukiyo Nagai 2Pb102 Water Vapor Sorption Properties of Alginic Acid and Alginates Miho Imai, Nina Shimanuki, Solhee Yoon, Yukiko Moriizumi, Hajime Fukuda, Kazukiyo Nagai 2Pa103 Synthesis and Properties of Acrylamide / Silicone Copolymers Ren Hamada, Keisuke Ikeda, Wataru Kawasko, Yohei Sasago, Kazukiyo Nagai Membrane Structure Analysis and Membrane Properties of ABA type Triblock 2Pb104 Copolymers Derived from Polyimide with Fluarine-containing Methacrylate Wataru Kawasoko, Ren Hamada, Yohei Sasago, Akihiro Yoshida, Kazukiyo Nagai Effect of Temperature on CO2 Solubility of Adamantyl Group Containing Polymer 2Pa105 Membranes Hajime Fukuda, Tsubasa Uno, shinpei Konishi, Kazukiyo Nagai Water Vapor Permeation Property of Poly(lactic acid)/Montmorillonite Nanocomposite 2Pb106 Membranes Kisato Nishida, Hajime Fukuda, Yoichi Takahashi, Johta Yamauchi, Kazukiyo Nagai 2Pa107 Permeable Palladium Catalyst Membranes

Shunya Araki,Hideyuki Nakanisi,Tomohisa Norisuye,Qui Tran-Cong-Miyata

# D. BIOPOLYMERS AND BIORELATED POLYMERS

- 2Pa109 Heavy metal sensing system using channel structure composed of PEG-peptide <u>Yuriko Ito</u>,Tomohiro Miura,Masahiro Higuchi
- 2Pb110 Internalization of Artificial Viral Capsids modified with His16 into Cell <u>Yuki Sato</u>,Takashi Iwasaki,Seiya Fujita,Hiroshi Inaba,Kazunori Matsuura
- 2Pa111 Introduction of iron oxide nanoparticles into interior space of microtubule <u>Mayuki Yamada</u>,Takahisa Yamamoto,Hiroshi Inaba,Arif Md. Rashedul Kabir,Akira Kakugo,Kazuki Sada,Kazunori Matsuura
- 2Pb112 A DNA/graphene oxide conjugates array to fingerprint characteristics of antibody degradations Shunsuke Tomita,Ayumi Matsuda,Suguru Nishinami,Ryoji Kurita,Kentaro Shiraki
- 2Pa113 Design, synthesis, and structural analysis of a novel dendritic backbone possessing a specific amino acid residue Nanase Moriguchi,Yoshihito Inai
- 2Pb114 Synthesis and conformational features of a periodic polypeptide backbone for functional molecules Moe NAKAMOTO,Yoshihito INAI
- 2Pa115 Effect of chemical structure on structural properties of a functional peptide helix Kouki Yuhara,<u>Yoshihito Inai</u>

2Pb116	A theoretical evaluation of shapes and structural features of a branched peptide polymer $\underline{Yoshihito\ Inai}$
2Pa117	Preparation of core-shell nonwoven fabric of nonwoven fabric encapsulating and immobilizing hydrolytic enzyme <u>Shogo Kihira,</u> Yuya Ido,Akiko Obata,Toshihiro Kasuga,Toshihisa Mizuno
2Pb118	Enantioselective secondary structural transition of PEGylated α-helical peptides at the solid-water interface <u>Yosuke Oishi</u> ,Masayoshi Tanaka
2Pa119	Screening of Peptides that Specifically Bind to Dextran by Phage Display Methods <u>Tatsuya Niwa</u> ,Toshiki Sawada,Takeshi Serizawa
2Pb120	Interaction between Antazoline and Human Serum Albumin <u>Masami Tanaka</u> ,Keiji Minagawa,Yasushi Imada,Yukihiro Arakawa
2Pa121	In vivo crystallization of fusion proteins using polyhedra crystals <u>Mariko Kojima</u> ,Satoshi Abe,Takafumi Ueno
2Pb122	Fabrication and characterization of pH-responsible protein nano-capsules using novel amphiphilic proteins <u>Natsumi Sumito</u> ,Kento Sugiura,Toshihisa Mizuno
2Pa123	Suppression of pathological protein aggregation by pegylated egg white proteins. <u>Taiga Hamawaki</u> ,Mei Wada,Tomonori Waku,Naoki Tanaka
2Pb124	Reconstitution of zinc protoporphyrin IX with maltose binding protein fused transmembrane cytochrome <i>b</i> and its characterization <u>Hiroki Kojima</u> ,Youko Kondou,Masaharu Kondou,Masaki Ihara,Takehisa Dewa
2Pa125	Synthesis of Recombinant(Hemoglobin-Albumin) Cluster as an Artificial O <sub>2</sub> -Carrier <u>Ryosuke Funaki</u> ,Wataru Okamoto,Yoshitsugu Morita,Teruyuki Komatsu

Presentation Time  $\langle c = 13:00 \sim 13:40 \rangle$ 

<d = 13:40~14:20>

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

2Pc001	Radical Initiating Ability of Tri-sec-butylborane under Various Polymerization Conditions <u>Shuichi Kanno</u>
2Pd002	Effects of Additives on the Polymerization of Styrene Initiated with Tributylborane under an Atmosphere of Air <u>Shuichi Kanno</u>
2Pc003	Reaction Control on the Radical Polymerization Initiated with S-Alpine-Borane under an Atmosphere of Air <u>Shuichi Kanno</u>
2Pd004	Properties of Isouronium Ionic Liquids as a Specific Initiator of Radical Polymerization Shuichi Kanno
2Pc005	High-Speed Radical Polymerization of <i>N</i> , <i>N</i> -Diethylacrylamide in High-Temperature Water <u>Akinori Sezai</u> ,Yasuhiro Kohsaka,Mitsumasa Osada,Shigeru Deguchi
2Pd006	Novel Radical Polymerization Based on Homolytic Cleavage of Silyl Ketene Acetal <u>Mao Hotta</u> ,Masato Konya,Takenori Nishida,Mineto Uchiyama,Kotaro Satoh,Masami Kamigaito
2Pc007	Novel Hydrogen-Transfer Radical Polymerization for Synthesis of Sequence-Regulated Vinyl Polymers <u>Misaki Goto</u> ,Masato Miyajima,Yoshiki Tanaka,Mineto Uchiyama,Kotaro Satoh,Masami Kamigaito
2Pd008	Radical Copolymerization of Various Plant-Derived Cinnamic Acid Derivatives <u>Shizuka Sugihara</u> ,Tomonari Nagai,Hisaaki Takeshima,Mineto Uchiyama,Kotaro Satoh,Masami Kamigaito

2Pc009	Radical Copolymerization of Naturally-occurring Valencene and Various Vinyl Monomers <u>Hiroaki Hashimoto</u> ,Tomonari Nagai,Hisaaki Takeshima,Mineto Uchiyama,Kotaro Satoh,Masami Kamigaito
2Pd010	Precise Construction of Polymer Chains Carrying Sequence-Defined Segment via Living Polymerization and Iterative Single Monomer Addition <u>Tomofumi Morishita</u> ,Yuki Sano,Dongyoung Oh,Takaya Terashima,Makoto Ouchi
2Pc011	Controlled synthesis of periodic copolymers by direct RAFT copolymerization of an alkyne-substituted vinyl ether and maleimides and their application to click reactions with azides Tomomi OTsubo,Hitoshi Kumadani,Jin Motoyanagi,Tomonari Tanaka,Masahiko Minoda
2Pd012	End group purity of polymers obtained by RAFT miniemulsion polymerization Kosuke Araya, Moriya Kikuchi, Seigou Kawaguchi
2Pc013	Synthesis and Properties of N-isopropylacrylamide Gel Using alpha-Substituted Acrylate Derivative with Amino Alcohol Group Kouhei SHIMIZU, <u>Tomonari YOKOYAMA</u> ,Disuke NAKAGAWA,Shigeki HBAUE
2Pd014	Synthesis and Properties of Copolymer Using alpha-Substituted Acrylate Derivative with Amino Alcohol Group Tomonari YOKOYAMA,Daisuke NAKAGAWA,Shigeki HABAUE
2Pc015	Synthesis of N-isopropylacrylamide gel using alpha-(aminomethyl)acrylate derivatives <u>Ryoma ITO</u> ,Shigeki HABAUE
2Pd016	Copolymerization of Dibenzofulvene with Acrylic Monomers Leading to pi-Stacked Polymers <u>Jiyue Luo</u> ,Yue Wang,Tamaki Nakano
2Pc017	Synthesis of Macromolecular Ligand through Radical Polymerization of 5-Vinyl-2,2'- bipyridine <u>Soma Kasai</u> ,Yue Wang,Tamaki Nakano
2Pd018	Synthesis and properties of [3.3](3,9)carbazolophane derivatives having polymerizable group at bridged aniline moiety <u>Kanae Miyanaga</u> ,Kazushige Hori,Keita Tani,Kenta Goto,Fumito Tani,Keita Sakakibara,Yoshinobu Tsujii
2Pc019	Synthesis, characterization, and post-functionalization of polyvinylselenophenes <u>Airi WATANABE</u> ,Kazuhiro NAKABAYASHI,Hideharu MORI
2Pd020	Crystal Structure and Polymerization Reactivity in Solid State of Tetrakis(chlorophenoxyethoxycarbonyl)quinodimethanes Shiori YAMAMOTO, <u>Takahiro UNO</u> ,Masataka KUBO,Takahito ITOH,Norimitsu TOHNAI,Mikiji MIYATA
2Pc021	Solid-State Polymerization of 7-Haloethoxycarbonyl-7,8,8- tris(methoxycarbonyl)quinodimethnaes <u>Takumi SUZUKI</u> ,Takahiro UNO,Masataka KUBO,Takahito ITOH,Norimitsu TOHNAI,Mikiji MIYATA
2Pd022	Solid-State Polymerization Reactivity of Cocrystals Composed of Tricyanoquinone Methide Imine and Tetrakis(alkoxycarbonyl)quinodimethanes <u>Yuta WASHIO</u> ,Takahiro UNO,Masataka KUBO,Takahito ITOH,Norimitsu TOHNAI,Mikiji MIYATA
2Pd024	Photoresponsivity of glucosamine derivative bearing caffeic acid with various hydrogen bonding substituents <u>Hiroharu AJIRO</u> ,Kenta YAMATANI
2Pc025	Polymerization of N-substituted propiolamides <u>Atsuki Shimomura</u> ,Yuzo Ishigaki,Shigeki Habaue
2Pd026	Radical ring-opening polymerization and properties of vinylcyclopropane containing two same mesogenic groups <u>Shota Ando</u> ,Naoya Takahashi,Shuhei Yamada,Takeshi Endo,Nobuo Yasuike,Takashi Okada
2Pc027	Stochastic polymerization of monomers forming MOF crystals

Shizuka Anan,Yumi Mochizuki,Kenta Kokado,Kazuki Sada

2Pd028 Two-stage curing of novel epoxy-acryl hybrid monomers <u>Yuji Kamachi</u>,Yoshimasa Matsumura,Bungo Ochiai

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

2Pd030	Toughening of polymers by controlled arrangement of dynamic bonds <u>Kei Kondo</u> ,Syuya Nakai,Shintaro nakagawa,Naoko Yoshie,Hideko T. Oyama
2Pc031	Preparation and Elastic Properties of Supramolecular Elastomers Based on Styrenic Block Copolymer <u>Takato KAJITA</u> ,Haruka TANAKA,Atsushi NORO,Yushu MATSUSHITA,Kosuke ISOBE,Sadaharu HASHIMOTO,Atsushi NOZAWA,Ryoji KAMEYAMA
2Pd032	Preparation and Characteristics of Block Copolymer Soft Photonic Films Swollen with Acidic Liquids <u>Atsushi YAMAMOTO</u> ,Atsushi NORO,Yushu MATSUSHITA
2Pc033	Structure Control of Physical Gels Composed of End-functionalized Tetra-arm Polymers <u>Koki Ueha</u> ,Tsuyoshi Koga
2Pd034	Characterization of polymer network formed from two kinds of four-arm star poly(ethylene oxide)s <u>Takashi Noda</u> ,Yuya Doi,Atsushi Takano,Yushu Matsushita
2Pc035	Analysis of Sol-Gel Transition Behavior for Methylcellulose Aqueous with Quartz Crystal Microbalance <u>Kenji Yamaoka</u> ,Yoshihisa Fujii,Naoya Torikai
2Pd036	Synthesis of ionomers having poly(dimethyl siloxane) backbones <u>Kenjiro Taira,</u> Yohei Miwa,Junosuke Kurachi,Shoichi Kutsumizu
2Pc037	X-ray Scattering Analysis of Internal Structure of Double Network Hydrogels <u>Kazuki Fukao</u> ,Takayuki Nonoyama,Tasuku Nakajima,Takayuki Kurokawa,Jian Ping Gong
2Pd038	Stretch induced microphase separation and mechanical properties of polyrotaxane gel consisting of triblock copolymer <u>Masayuki Taniguchi</u> ,Rina Maeda,Shuntaro Uenuma,Koichi Masayumi,Kazuaki Kato,Hideaki Yokoyama,Kohzo Ito
2Pc039	Mechanical properties and fracture dynamics of crosslinked phenolic resin using molecular dynamics simulation with reactive force field <u>Yasuyuki Shudo</u> ,Atsushi Izumi,Katsumi Hagita,Mitsuhiro Shibayama
2Pd040	Guiding principles to develop tough rubber materials: An exactly solvable model <u>Naoyuki Sakumichi,</u> Ko Okumura
2Pc041	Synthesis of Organic-Inorganic Hybrid-Type Interpenetrating Polymer Networks by Simultaneous Gelation Using Silicone Polymer with Silanol Residue <u>Junta SANO</u> ,Shigeki HABAUE
2Pd042	Effect of Molecular Weight and Ionic Group Content on Properties of Dynamic Ion- Crosslink Elastomer <u>Junosuke Kurachi</u> ,Yohei Miwa,Yusuke Sugino,Shoichi Kutsumizu
2Pc043	Gel-sol transition of xanthan gum / locust bean gum mixtures <u>Mika Iijima</u> ,Takahiro Motofuji,Tatsuko Hatakeyama,Hyoe Hatakeyama
2Pd044	Study on dynamics of aggregates in rubber filling system Mikihito Takenaka, <u>Yu Nishimura</u>
2Pc045	Characterization of Antibacterial PVA/Chitosan Hydorogel film <u>Risei Wada</u> ,Yoshiki Oda,Akinori Zukeran,Jun Sawai,Hidenobu Shimizu,Masaru Okabe
2Pd046	Development of Polymeric Materials with Controlled Dissolution Temperature <u>Hiroshi Mori</u> ,Hiroaki Yoshida
2Pc047	Relationships between structure and mechanical properties of thermoplastic elastomer made of PR derivative

	<u>Ryota Kobayashi</u> ,Maeda Rina,Mayumi Koichi,Yokoyama Hideaki,Ito Kozo
2Pd048	Thermodynamic analysis of polymer gel elasticity <u>Yuki Yoshikawa</u> ,Takamasa Sakai
2Pc049	Molecular Simulation of Relaxation of Elastomers: Effects of Dangling Chain <u>Teruki Tsurimoto</u> ,Tsuyoshi Koga
2Pd050	Fatigue Fracture of Tough and Self-Healing Polyampholyte Hydrogel <u>Xueyu Li,</u> Taolin Sun,Kunpeng Cui,Takayuki Kurokawa,Jian Ping Gong
2Pc051	Osmotic description of polymer gel and analogy with C* theorem <u>Ikuo Fujinaga</u> ,Takamasa Sakai
2Pd052	Evaluation of Rubber Elasticity Characteristics of Network Polymers using Molecular Dynamics Simulations <u>Hiroshi Sasaki</u>
2Pc053	Polyrotaxane network materials cross-linked with protein <u>Rui Yoshioka</u> ,Rina Maeda,Hideaki Yokoyama,Kohzo Ito
2Pd054	Synthesis and properties of the network of polymer with controlled chain length using vitrimer-like cross-linking <u>Yasuyuki Nakamura</u> ,Akinori Moriya,Masanobu Naito
2Pc055	Visualization of Sliding Dynamics and Orientation of Figure-of-Eight Cross-links in Slide- Ring gels using Coarse-Grained Molecular Dynamics Simulations <u>Yusuke Yasuda</u> ,Masatoshi Toda,Koichi Mayumi,Hideaki Yokoyama,Hiroshi Morita,Kohzo Ito
2Pd056	Synthesis and Mechanical Properties of Homogeneous Transient Networks formed by Dynamic Covalent Bonds <u>Yu Kashiwagi</u> ,Takuya Katashima,Tadashi Inoue

## **C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS**

- 2Pd058 Step-π-conjugated polymers (26) Synthesis and performance evaluation of macromolecular wire with donor and acceptor at the terminal. <u>Koki Iwamura</u>,Hiroyuki Mitani,Haoxuan GUO,Hiroyuki Aota
- 2Pc059 Step-π-conjugated polymers (27) Synthesis of macromolecular wire having microscopically different polarity and its interaction with platinum colloid. <u>Kaho Matsumura</u>,Haoxuan GUO,Hiroyuki Aota
- 2Pd060 Step-π-conjugated polymers (28) Synthesis of polymer with photosensitizer for multi-step electron transfer <u>Takayuki Kasugai</u>,Haoxuan GUO,Hiroyuki Aota
- 2Pc061 Syntheses of step-π-conjugated polymers (29) Attempt to synthesize high density charge storage polymer.
   Shingo Asai,Kota Maruyama,Haoxuan GUO,Hiroyuki Aota
- 2Pd062 Step-π-conjugated polymers (30)Synthesis of porphyrin for introducing into macromolecular wire Arata Oyama,Kouken Kaku,Hiroyuki Aota
- 2Pc063 Analysis of Photoluminescence Behavior of Room-Temperature Phosphorescent Polyimide Films under Very High Pressure Yutaro Ando,Eisuke Fujiwara,Ryoji Orita,Ryohei Ishige,Shinji Ando
- 2Pd064 Control of Fluorescence and Phosphorescence Properties of co-Polyimides Based on Energy Transfer <u>Mayuko Nara</u>,Ryoji Orita,Kenta Kanosue,Ryohei Ishige,Shingi Ando
- 2Pc065 Synthesis and Characterization of Luminescent Nanoparticles with Cross-linked Aggregation-Induced Emission Structure <u>Kazuhiro Nakabayashi</u>,Mizuki Takata,Hideharu Mori
- 2Pd066 Synthesis and photophysical properties of polycarbonates having 9,10-(N,Ndialkylamino)anthracene dye

	<u>Gen-ichi Konishi,</u> Kuwahara Kohei,Tomohisa Oizumi,Sasaki Shunsuke
2Pc067	Photophysical properties of macrocyles having highly twisted amino group-modified naphthalene moiety <u>Gen-ichi Konishi,</u> Oizumi Tomohisa
2Pd068	Single Polymer Materials for White-Color Luminescence <u>Osama Younis,</u> Osamu Tsutsumi
2Pc069	Synthesis and Characterization of Polymeric Materials having Room Temperature Phosphorescent Properties <u>Daichi Furuya</u> ,Toshiyuki Watanabe,Kenro Totani
2Pd070	Synthesis of block and random copolymers with carbazole and (di)phenylanthracene in the side chains toward application of organic electronics. Jun Kosai,Chen-Tsyr Lo,Kazuhiro Nakabayashi,Hideharu Mori
2Pc071	Tuning the luminescence properties of bithiazole-based -conjugated polymer using its coordination property <u>Risa Deguchi</u> ,Junpei Kuwabara,Takaki Kanbara
2Pd072	Effects of One Cyano-substituted Oligo(phenylene-vinylene) into Linear Polymer Segment <u>Shotaro Hayashi</u> ,Tomoyuki Ono,Toshio Koizumi,Shin-ichi Yamamoto
2Pc073	High Slope Efficiency Organic Dye Laser Device with P(VDF-TrFE) Layer <u>Yoshinori Hirano</u> ,Kenji Kinashi,Wataru Sakai,Naoto Tsutsumi
2Pd074	Behavior of the fluorescent polymer in the hydroxyl terminated polyester / lysine triisocyanate blend <u>Hideki Hayashi</u> ,Masaki Marada,Yuzo Ishigaki,Yukio Onouchi
2Pc075	Fabrication of highly oriented DNA nanofilms by dielectrophoretic trapping method and its photo-electro functionalization <u>Tsukasa Miyazaki</u> ,Kazuki Nakamura,Norihisa Kobayashi
2Pd076	Fabrication of UV-cured films using tertiary amines generated via intramolecular photocyclization reaction <u>Takafumi Akiyama,</u> Masahiro Furutani,Koji Arimitsu
2Pc077	Anionic UV curing of epoxy/bismaleimide mixed resins <u>Nene Hatakeyama</u> ,Yusuke Hakamata,Masahiro Furutani,Koji Arimitsu
2Pd078	Construction of anionic UV curing systems for thick films utilizing novel chain curing agents <u>Kouta Ooki</u> ,Tomoaki Matsuda,Masahiro Furutani,koji Arimitsu
2Pd080	Effects of Aging on Poly(1-trimethylsilyl-1-propyne) Membranes Irradiated with Vacuum Ultraviolet for Gas Separation <u>Tetsuro Yoshioka</u> ,Yoshiki Miyashita,Taichi Motoo,Kentaro Saito,Kazukiyo Nagai
2Pc081	Reserch on Biodegradable Plastics for Packaging Materials <u>Shuhei Suzuki</u> ,Keito Tabata,Yuntaek Choi,Meigin Sho,Kazukiyo Nagai
2Pd082	Gas Permeation Property of Diacetylene-containing Polymer Membranes Derived from Dicarboxylic Acid with Different Carbon Chain Length Tomoya Tamaki, <u>Shuhei Suzuki</u> ,Sumito Nagahama,Shun Kato,Daichi Watabe,Kazukiyo Nagai
2Pc083	Synthesis and Structure Analysis of Acrylamide / Silicone Copolymers <u>Keisuke Ikeda</u> ,Ren Hamada,Wataru Kawasoko,Yohei Sasago,Kazukiyo Nagai
2Pd084	Gas Barrier and Physical Property of Diacetylene-Containing Polymer Membranes Derived from Cinnamic Acid Derivative Sumito Nagahama, <u>Keisuke Ikeda</u> ,Tomoya Tamaki,Shun Kato,Kazukiyo Nagai
2Pc085	Synthesis of Poly(biphenylylacetylene) Derivatives Bearing a Variety of Functional Pendants and Their Application <u>Mitsuka Ando</u> ,Ryoma Ishidate,Katsuhiro Maeda,Eiji Yashima
2Pd086	Sensing of biomolecules using cationic π-conjugated polymers -Anion substitution effect- Yui Shimada,Masahiro Fujita,Yuko Takeoka,Masahiro Rikukawa

2Pc087	Development of reusable Pd nanowire network catalyst <u>Daisuke Matsubara</u> ,Yoshimasa Matsumura,Bungo Ochiai
2Pd088	Diffusion properties of ethylene vinyl alcohol copolymer swollen by water <u>Haruka Matsushita</u> ,Hiroaki Yoshimizu
2Pc089	13C NMR measurement of CO2 in polymeric gas separation membranes <u>Masafumi Yamato</u> ,Eiko Ito,Manabu Tanaka,Hiroyoshi Kawakami
2Pd090	Controlling Vapor Permeation Behavior of Polyelectrolyte Membranes via different Cross- linking degree Polyelectrolyte and Inserting Additives <u>Ye Ji Son</u> ,So Jeong Kim,Byeongil Jeon,Kyung-Hye Jung
2Pc091	Synthesis of Environmentally Responsive Cyclodextrin Polymer Capsules for Controlled Cargo Release <u>Shintaro Kawano</u> ,Daisuke Ono
2Pd092	Synthesis and Catalytic Reaction Activity with Gold Nanoparticles/Diblock Ionomers (VI) -Relationship between Dispersibility of Composite Catalysts and Catalytic Activity - <u>Hinako Inoue</u> ,Masahiro Fujita,Yuko Takeoka,Masahiro Rikukawa
2Pc093	Anion Sensing Properties of Helical Poly(diphenylacetylene) Derivatives Bearing Chiral Pendant Groups <u>Yoichi Shimizu,</u> Daisuke Hirose,Tatsuya Nishimura,Tomoyuki Ikai,Katsuhiro Maeda
2Pd094	Recovery of platinum group metals by using amphiphilic block polymers Akihiro Hirate,Michinari Kohri, <u>Tatsuo Taniguchi</u> ,Keiki Kishikawa,Takeshi Ogata,Hirokazu Narita,Ryuhei Motokawa
2Pc095	The higher-ordered structures, molecular mobilities, and transport properties of syndiotactic polystyrene studies by NMR methods Mika Ito, <u>Hiroaki Yoshimizu</u>
2Pd096	Analysis of higher-ordered structures of poly methyl methacrylates prepared by several physical treatments by means of Xe-129 NMR Eriko Nishiguchi, <u>Hiroaki Yoshimizu</u>
2Pc097	Evaluation of the gas diffusion properties of rubbery polymers using NMR Asami Miyashiro, <u>Hiroaki Yoshimizu</u>
2Pd098	Enantioseparation on Optically Active Poly(phenylacetylene) Derivatives Showing Helix- Sense Enhancement Based on a Chiral-to-Chiral Communication Mechanism as a Chiral Stationary Phase for HPLC <u>Mayu Fukuda</u> ,Asahi Isobe,Daisuke Hirose,Freire Felix,Katsuhiro Maeda
2Pc099	Control of Permeability for Parylene nanofilms having various amide side chains <u>Mizuki Goto</u> ,Mutsumi Kimura
	D. BIOPOLYMERS AND BIORELATED POLYMERS
2Pd102	fabrication of multi-stimuli responsive peptide-coated mesoporous silica as a dds carrier <u>Yuichiro Suzuki</u> ,Masahiro Higuchi
2Pc103	Development of novel porous particles for pulmonary DDS -evaluation of pulmonary delivery- Shinnosuke Nishimura,Yoshihiko Murakami

- 2Pd104 Development of novel porous particles for pulmonary DDS -evaluation of drug release-<u>Tsutomu Takahashi</u>,Yoshihiko Murakami
- 2Pc105 Development of lipid-polymeric micelle for oral drug delivery -evaluation of formation and structure of polymeric micelles -<u>Ichiho Okita</u>,Yoshihiko Murakami
- 2Pd106 Development of temperature-responsive micropaticles formed via sol-gel transition <u>Takumi Sato</u>,Yoshihiko Murakami
- 2Pc107 Development of hollow protein nanoparticles for possible incorporation of hydrophilic compounds <u>Seiichi Sonotaki</u>,Keiichi Noguchi,Masafumi Yohda,Yoshihiko Murakami

2Pd108	Fabrication of Calcium Carbonate coated Vesicles by Biomineralization and the Application for DDS Carrier <u>Chiho Miyamaru</u> ,Mao Koide,Masahiro Higuchi
2Pc109	Preparation of boronic acid-binding block polymer micelle aiming for boron neutron capture therapy <u>Ryoya UMEYAMA</u> ,Yuta YODHIZAKI,Akinori KUZUYA,Yuichi OHYA
2Pd110	Preparation of multistimuli-responsive hydrogels for stimuli-responsive loading and release of proteins <u>Moeno Tago</u> ,Hidenari Kayano,Taka-Aki Asoh,Ryo Ishihara,Akihiko Kikuchi
2Pc111	Preparation of Hydrophobically Modified Hydroxypropyl Methylcellulose/Cyclodextrin Thermoresponsive Hydrogels for Use in Drug Delivery <u>Daisuke Iohara,</u> Masanori Okubo,Makoto Anraku,Kaneto Uekama,Fumitoshi Hirayama
2Pd112	Delivering positively charged peptide/drug using crosslinked and pH responsive nanomachine <u>Amit Ranjan Maity</u> ,Sabina Quader,Shigehito Osawa,Kazunori Kataoka
2Pc113	An oral administration of sorafenib-loaded silica-containing redox nanoparticle for treatment of liver fibrosis <u>Hao Tran Thi,</u> Long Binh Vong,Yuji Nishikawa,Yukio Nagasaki
2Pc115	Controlling the tertiary structure of DNA with reduction-responsive guanine derivatives <u>Ayaka Banno</u> ,Yukiko Hayakawa,Masato Ikeda
2Pd116	Development of tumor-specific double-stranded RNA delivery system using hyaluronic acid
2Pc117	<u>Masashi Umeda</u> , Atsushi Moritaka, Kazuo Sakurai, Shinichi Mochizuki Photoregulation of SNA duplex by using reversible [2+2] cycloaddition reaction
210111	Yuuhei Yamano, Keiji Murayama, Hiroyuki Asanuma
2Pd118	Assembling messenger RNA using RNA cross-linkers for improving nuclease stability <u>Kurimoto Shota</u> ,Eol Cho,Naoto Yoshinaga,Yuki Mochida,Satoshi Uchida,Horacio Cabral
2Pc119	Measurement of Interparticle Force between DNA-grafted Microbeads by Optical Tweezers <u>Hiroya Nakauchi</u> ,Mizuo Maeda,Naoki Kanayama
2Pd120	Adsorption Behavior of DNA-functionalized Gold Nanoparticles on the Surface-Modified Glass Substrates <u>Naoki Kanayama</u> ,Seika Imamura,Mizuo Maeda
2Pc121	Photo-Regulation of Protein Expression by Visible Light Responsive 10-23 DNAzyme <u>Yu Arimura,</u> Hideaki Ooi,Kenjiro Kato,Xingguo Liang,Yukiko Kamiya,Hiroyuki Asanuma
2Pd122	Conjugation of siRNA and a polymer with coil-globule transition property and precise control of gene-silencing effect in response to the small temperature difference around body condition <u>Sayaka Onodera</u> ,Hiroyasu Takemoto,Takahiro Nomoto,Keishiro Tomoda,Makoto Matsui,Nobuhiro Nishiyama
2Pc123	Preparation of functionalized hydrogel containing dye-oligomers synthesized by large scale liquid phase synthesis <u>Yuki Shigematsu</u> ,Keiji Murayama,Hiroyuki Asanuma
2Pd124	Sphere-shaped polyplex micelle based on ssDNA and its delivery appeal towards hypopermeable pancreatic tumor <u>Theofilus A. Tockary</u> ,Wanling Foo,Anjaneyulu Dirisala,Xueying Liu,Satoshi Uchida,Yuki Mochida,Horacio Cabral,Kensuke Osada,Kataoka Kataoka
2Pc125	Development of chiral amplification system by using higher-order structure formation of artificial nucleic acid <u>Keiji Nishikawa</u> ,Toshiki Miyagawa,Yuhei Hattori,Hiromu Kashida,Hiroyuki Asanuma

Presentation Time <e = 15:00~15:40> <f = 15:40~16:20>

# A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

2Pe001	Asymmetric Anionic Polymerization of Quinone Methide with Cyano and Phosphonate Groups <u>Shun UCHIYAMA</u> ,Yuka FUYADA,Takahiro UNO,Masataka KUBO,Takahito ITOH
2Pf002	Controlled cationic polymerization of vinyl ethers using initiating systems consisting of various phenoxyimine ligands and metal halides <u>Takuya Yamamoto</u> ,Sensho Kigoshi,Arihiro Kanazawa,Sadahito Aoshima
2Pe003	Photo-Switchable Cationic/Radical Copolymerization Using Photoredox Catalyst and Lewis Acids <u>Zhihong SUN</u> ,Nagisa ITO,Yuuma FUJIKI,Mineto UCHIYAMA,Kotaro SATOH,Masami KAMIGAITO,Jiangtao Xu,Cyrille Boyer
2Pf004	Asymmetric Living Cationic Polymerization of Benzofuran <u>Daichi Watanabe</u> ,Masahiro Osumi,Masato Miyajima,Mineto Uchiyama,Kotaro Satoh,Masami Kamigaito
2Pe005	Synthesis and Controlled Cationic Polymerization of Vinyl Ether Derived from Naturally- Occurring Furfural <u>Tomoaki Yokota</u> ,Teigo Okoshi,Takenori Nishida,Mineto Uchiyama,Kotaro Satoh,Masami Kamigaito
2Pf006	Various halogen-bonding organic catalysts control the cationic polymerization of vinyl monomer <u>Hiroto Murakata</u> ,Koji Yamauchi,Hiroki Yano,Koji Takagi
2Pe007	Vinyl polymerization of (meth)acrylates catalyzed by Lewis pairs in water <u>Atsushi Shimizu</u> ,Shin-ichi Matsuoka,Masahito Suzuki
2Pf008	Polymerization of Cyclopentadiene Catalyzed by Various Lewis Pairs <u>Kazumasa Mori</u> ,Shin-ichi Matsuoka,Masahito Suzuki
2Pe009	Ring-Expansion Living Cationic Polymerization using MgBr2 as a Lewis Acid Catalyst <u>Yuji Daito</u> ,Reina Kojima,Takaya Terashima,Makoto Ouchi
2Pf010	Synthesis and Expansion of Cyclic Vinyl Polymers Initiated by N-Heterocyclic Carbene in the Presence of Lewis acid <u>Yuhei Hosoi</u> , Akinori Takasu, Shin-ichi Matsuoka, Mikihiro Hayashi
2Pe011	Synthesis of stereoregular poly(lactide) using N-heterocyclic carbene/Lewis acids <u>Keiji Naruse</u> ,Akinori Takasu,Mikihiro Hayashi
2Pf012	Ring-opening polymerization of lactones in the presence of cyclic compounds <u>Yosuke Oga</u> ,Akinori Takasu
2Pe013	Zwitter ionic polymerization of acrylic thioester <u>Yuna Ishikawa</u> ,Takumi Kaneko,shin-ichi Matsuoka,koji Takagi,Masahito Suzuki
2Pf014	Ring-opening homo- and co-polymerization of thioglycolide and thiolactide <u>Aya Watanabe</u> ,Kazumasa Makimura,Shin-ichi Matsuoka,Koji Takagi,Masahito Suzuki
2Pe015	Synthesis of Polypeptoids by Ring-Opening Polymerization of 1,3-Oxazolidin-5-ones and N-dithiocarboxy anhydrides <u>Hiromu Yamasaki</u> ,Renta Otsuka,Naoki Yoshida,Shin-ichi Matsuoka,Koji Takagi,Masahito Suzuki
2Pf016	Ring-opening polymerization of cyclic acrylate containing hemiacetal ester skeletons to fabricate degradable poly(conjugated esters) Yosuke Matsuhashi,Shuji Yamashita, <u>Yasuhiro Kohsaka</u>
2Pf018	Ring-Opening Metathesis Polymerization of Sequence-Regulated Cyclic Oligomers Prepared by Iterative Atom Transfer Radical Additions of Vinyl Monome <u>Masato Miyajima</u> ,Kotaro Satoh,Masami Kamigaito
2Pe019	Ring-opening polymerization of (oxa)norbornene lactones <u>Narumi Miyasako</u> ,Shin-ichi Matsuoka,Masato Suzuki

2Pf020 Synthesis and emmission properties of poly(diphenylacetylene)s having long alkyl chain

	groups <u>Koji Yoshimura</u> ,Toshikazu Sakaguchi,Tamotsu Hashimoto
2Pe021	Study on the effect of substituents on the emission property of poly(diphenylacetylene) <u>Teppei Hinagata</u> ,Toshikazu Sakaguchi,Tamotsu Hashimoto
2Pf022	Synthesis and gas permeability of diphenylacetylene polymers having vinyl and vinyloxy groups <u>Junya Minami,</u> Toshikazu Sakaguchi,Tamotsu Hashimoto
2Pe023	Synthesis and gas permeability of polar group-containing disubstituted acetylene
21 0023	polymers <u>Takuya Fujimoto</u> ,Toshikazu Sakaguchi,Tamotu Hashimoto
2Pf024	Polycondensation of dissymmetrical AB-type monomer via cross-dehydrogenative-
	coupling reaction Hideaki Aoki,Hitoshi Saito,Junpei Kuwabara, <u>Takaki Kanbara</u>
2Pe025	Synthesis of tetrafluorobenzene-based conjugated polymers consisting of three- component units by cross-deydrogenative-coupling polycondensation <u>Chie Tanaka</u> ,Hideaki Aoki,Hitoshi Saito,Junpei Kuwabara,Takaki Kanbara
2Pf026	Synthesis of donor-acceptor polymer <i>via</i> direct arylation polycondensation of benzodithiophene-4,8-dione <u>Xin Jiang</u> ,Junpei Kuwabara,Takaki Kanbara
2Pe027	Additive controlled switching of molecular weight and end groups of polyphenylene in unstoichiometric Suzuki-Miyaura polycondensation <u>takeru KAMIGAWARA</u> ,Hajime SUGITA,Yoshihiro OHTA,Tsutomu YOKOZAWA
2Pf028	Random copolymerization of lactide with trimethylenecarbonate using salen-type Al catalyst <u>Tomohiro Fukuta</u> ,Nobuyoshi Nomura
2Pe029	Polymerization of 2-alkoxytrimethylene carbonates derived from glycerol <u>Reiji Yoshimura</u> ,Nobuyoshi Nomura
2Pf030	Controlled Copolymerization by Metal Complexes [81] Development of Metalloporphyrin Catalyst System for Copolymerization of Carbon Dioxide and Oxetane <u>Ryo Nakamura</u> ,Hiroshi Sugimoto
2Pe031	Structure analysis of high purity poly propylene glycol prepared by cooperative catalyst of organic base-Lewis acid <u>Yoshiaki Inoue</u> ,Toshihide Yamamoto,Yukio Tsunetoh,Katsuaki Mori
	<b>B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES</b>
2Pf034	Two dimensional tiling from ABAC tetrablock copolymers <u>Jiro Suzuki</u> ,Atsushi Takano,Yushu Matsushita
2Pe035	Microphase-Separated Structure Formed from ABCD Tetrablock Quarterpolymers Masayuki Asano, <u>Atsushi Takano</u> ,Jiro Suzuki,Yoshitaka Aoyama,Tomohiro Mihira,Yushu matsushita
2Pf036	Bicontinuous microphase separation structures formed by a diblock copolymer blend having a chain length difference <u>Wataru Takagi,</u> Jiro Suzuki,Atsushi Takano,Yushu Matsushita
2Pe037	Peculiar Behavior of Small-angle X-Ray Scattering Profiles from Phase Separated Structure of Block Copolymer with Low Electron Density Difference <u>Kenichi Yoshimori</u> ,Katsuhiro Yamamoto
2Pf038	STEM analysis of the compatibilization of PVDF/PLLA reactive blends <u>Shin Horiuchi</u> ,Hideki Hakukawa,Wenyong Dong,Yongjin Li
2De030	Development of Crystal Structure Control Techniques in Acrylic Polymer/PVDF Blends

2Pe039 Development of Crystal Structure Control Techniques in Acrylic Polymer/PVDF Blends <u>Tatsuhiro Hiraoka</u>,Masashi Ikawa,Hiroshi Niinou,Eiko Okamoto,Hiroshi Hosokawa,Hiromu Saito

2Pf040 Melt crystallization behavior of poly(phenylene sulfide)/poly(N-vinyl pyrrolidone) blends

Kazuhiro Watanabe, T. Hideko Oyama, Saori Nara, Takuya Nishida, Koji Tanaka 2Pe041 A study of small angle scattering profiles calculated from large-volume 3D-data of fillers in rubbers Katsumi Hagita, Takeshi Higuchi, Hiroshi Jinnai 2Pf042 Properties of Natural Rubber with Nanodiamondo-nanomatrix Structure Seiichi Kawahara, Asangi Gannoruwa, Yoshimasa Yamamoto 2Pe043 Toughening Poly(lactide) with sliding graft copolymer WensShun Shi,Guan Li,Chang Liu,Rina Maeda,Koichi Mayumi,Hideki Yokoyama,Kohzo Ito 2Pf044 A Study of modification technology of various polymeric materials with gamma irradiation Atsushi Kanaya, Hiroki Takeshita, Katsuhisa Tokumitsu, Takayuki Hironiwa, Atsushi Matsumoto 2Pe045 Morphology Observation and Inorganic Additive Effect for Polysulfone Membrane via **Phase Separation Process** Keigo Itakura, Yoshihisa Fujii, Naoya Torikai 2Pf046 Mechanical and Hydrogen gas barrier properties of blends of BVOH modified PVOH Shogo Sumino, Katsuhisa Tokumitsu, Hiroki Takeshita, Mitsuo Shibutani, Shin Nishimura, Hirotada Fujiwara 2Pe047 Proton conductive membranes composed of crystalline polymers and amorphous networks Shougo Yaguchi, Toshiyuki Kataoka, Takayuki Ikehara 2Pf048 SAXS analyses of epoxy resin/ZrO<sub>2</sub> nanoparticles hybrids Kazushi Enomoto, Moriya Kikuchi, Atsushi Narumi, Seigou Kawaguchi Molecular Simulation of Aggregate Structure of Polymers containing POSS in Their Main 2Pe049 Cains Tomonori Nakagawa, Kensuke Naka, Tsuyoshi Koga

# C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

2Pe051	Performance of semitransparent organic thin film solar cell with Ag nanowires as top electrode <u>Yukika Asano</u> ,Atsusi Aoki
2Pf052	Optimization of solar hydrogen production module using PTB7 polymer solar cell <u>Shinnosuke Watanabe</u> ,Shinpei Goto,Atsushi Aoki
2Pe053	Charge dynamics in nonfullerene organic solar cells <u>Yasunari Tamai</u> ,S. Matthew Menke,Yeli Fan,Vincent O. Kim,Kostiantyn Ziabrev,Akshay Rao,Stephen Barlow,Seth R. Marder,Richard H. Friend
2Pf054	Analysis of Fill Factor Based on Charge Recombination in Crystalline Polymer Solar Cells <u>Tomohiro Fukuhara</u> ,Yasunari Tamai,Hideo Ohkita
2Pe055	Fabrication of P3HT fibers by Forcespinning method <u>Kohei Hayashi</u> ,Takato Iwata,Kenji Kinashi,Wataru Sakai,Naoto Tsutsumi
2Pf056	Development of dye-sensiteized solar cell based on circularly arranged porpyrin array thin film <u>Sadaaki Kawasaki</u> ,Ryouhei Okazaki,Sadayuki Asaoka
2Pe057	Two-dimensional exciton diffusion dynamics in crystalline conjugated polymer thin films <u>Yasuhiro Murata</u> ,Yasunari Tamai,Hideo Ohkita
2Pf058	Effect of doping levels on thermoelectric properties of alkyl-substituted polythiophene <u>Ichiro Imae</u> ,Ryosuke Akazawa,Yutaka Harima
2Pe059	Heat treatment effect of charge-transfer complex blend films as polymer electrolyte membranes for PEFC <u>Masamichi Nishihara</u> ,Shiyan Feng,Liana Christiani,Kazunari Sasaki,Shoichi Kondo,Taichi Nakazawa,Takamasa Kikuchi

2Pf060	Synthesis and application of polyelectrolyte with super acid group (V) - Evaluation of water transport phenomena - <u>Miho Asano,</u> Masahiro Fujita,Yuko Takeoka,Masahiro Rikukawa
2Pe061	Synthesis and evaluation of cationic polyphenylenes having phosphonium groups (III)- Alkaline resistance of alkyl phosphonium group - <u>Tomohisa Oshima</u> ,Masahiro Fujita,Yuko Takeoka,Masahiro Rikukawa
2Pf062	Fabrication of polymer nanofibers containing sulfonic and phosphoric acid groups and fuel cell characterizations of the composite membranes. Risa Sakaguchi,Manabu Tanaka, <u>Hiroyoshi Kawakami</u>
2Pe063	Fabrication of lithium ion conductive polymer nanofiber framework composite electrolyte membranes for future secondary battery applications Shun Nakazawa,Yuta Inafune,Kaito Takenaka,Manabu Tanaka, <u>Hiroyoshi Kawakami</u>
2Pf064	Bifunctional PEG-based Cross-linked Network Polymer Electrolytes for Lithium Ion Batteries <u>Manjit Singh Grewal,</u> Manabu Tanaka,Hiroyoshi Kawakami
2Pe065	Water-soluble supramolecular system for hydrogen production <u>Riku Kubota</u> ,Taiga Takabe,Hiroyoshi Kawakami
2Pf066	Property of polymer gel electrolyte for lithium ion battery <u>Sahori Takeda</u> ,Shigemasa Yamagami,Yuria Saito,Toshiki Yagi,Keisuke Watanabe,Shota Kobayashi
2Pe067	Rapid Charge of Poly TEMPO-Substituted Ether / LiFePO4 Hybrid Electrode Based on Charge Mediation <u>Yusuke Sasaki</u> ,Kan Sato,Kenichi Oyaizu,Hiroyuki Nishide
2Pf068	Polyborosiloxane based binders for Li-ion battery anodes <u>Sai Gourang Patnaik</u> ,Noriyoshi Matsumi
2Pe069	Preparation and evaluation of lithium secondary batteries using end-capped poly(ethylene carbonate) electrolytes <u>Yukino Kinno</u> ,Yoichi Tominaga
2Pf070	Preparation and Characterization of Lithium Ion Batteries Using Polycarbonate Blend- based Concentrated Electrolytes <u>Zhenguang Li</u> ,Ronnie Mogensen,Jonas Mindemark,Tim Bowden,Daniel Brandell,Yoichi Tominaga
2Pe071	Lithium Sulfur Battery Using Poly(propyl methacrylate)s with Highly Dissociative Ionic Pendant Groups as Electrolyte Membrane <u>Masaki Sakamoto</u> ,Kenichi Oyaizu,Hiroyuki Nishide
2Pf072	Electrochemical characterization of crosslinked poly(tetrahydrofuran)-based Mg gel electrolytes <u>Sawako Kato,</u> Yuki Shoda,Yoichi Tominaga
2Pe073	Synthesis of Tetrabenzo Crown Ether by Thiol-ene Reaction and the application of Gel Electrolyte <u>Junichi Tokomoto,</u> Kazuhiro Yamabuki,Kenjiro Onimura
2Pf074	Effect of chain architectures of star-shaped poly(ethylene glycol) macromonomers on mechanical property and ionic conductivity of polymer electrolyte membranes <u>Ryo Onozuka</u> ,Camilo Rendon Piedrahita,Shoki Nakano,Kaoru Adachi,Yasuhisa Tsukahara,Thein Kyu
2Pe075	Redox Flow Battery Using Redox Polymer Particles as Cathode and Anode Active Materials <u>Nagano Takashi,</u> Kenichi Oyaizu,Hiroyuki Nishide
2Pf076	Non-precious Metal Catalyst Derived from ZIF-8/FAB for Oxygen Reduction Reactions in Non-aqueous Medium <u>Ankit Singh</u> ,Noriyoshi Matsumi
2Pe077	Carbon nitride/polyacrylonitrile nanofibers as effective cathode catalyst in microfluidic fuel cells <u>Amandeep Jindal</u> ,Suddhasatwa Basu,Neha Chauhan,Tomofumi Ukai,Sakthi Kumar

2Pf078	Energy storage performance of carbon nanofiber electrodes derived from cross-linked
	aromatic polyimide
	<u>So Jeong Kim</u> ,Ye Ji Son,Byeongil Jeon,Kyung-Hye Jung

- 2Pe079 Solution Plasma Treatment of Precursor Polymer Nanofibers for Carbon Nanofiber Electrode <u>Ye Ji Son</u>,So Jeong Kim,Byeongil Jeon,Kyung-Hye Jung
- 2Pf080 Electrical properties of carbon catalysts obtained by baking different metal supported poly metal phthalocyanines <u>Shun Miyata</u>,Naoki Wakuzawa,Shota Shingai,Izuru Kobayashi,Nobukatsu Nemoto,Masaji Akimoto,Kazuto Umezu
- 2Pe081 Construction of Layer Structures Consisting of π-Conjugated Molecules with Poly(4vinylpyridine) Brushes Romu Nakayama,Toru Ube,Kenji Katayama,Masa-aki Haga,Tomiki Ikeda

#### D. BIOPOLYMERS AND BIORELATED POLYMERS

2Pf084	Photo-assisted DNA delivery by using malachite green copolymer <u>Ryoko Uda</u> ,Takanori Mori,Kai Torng Ang,Keita Hayashi
2Pe085	Fabrication of drug loaded core shell nanofibers for long term drug release behavior control <u>Toshiya Hibino</u> ,Shin-ichiro Suye,Satoshi Fujita
2Pf086	Protein-Coated Nanocaplet for Active-Targeting siRNA Delivery <u>Ai Kohata</u> ,Hashim P.K.,Kou Okuro,Takuzo Aida
2Pe087	Development of tissue-adhesive tetraPEG-polymeric micelle hybrid gel for the sustained drug release. <u>Masato Ogawa</u> ,Yoshihiko Murakami
2Pf088	Synthesis of polymers for protein immobilization by using a novel RAFT agent and evaluation of their gelation properties <u>Yuta Mori</u> , Yoshihiko Murakami
2Pe089	Glycaemic control boosts glucosylated nanocarrier crossing the BBB into the brain <u>Yasutaka Anraku</u> ,Hiroya Kuwahara,Takanori Yokota,Kazunori Kataoka
2Pf090	Relationship between kind of hydrophilic group of DDS nanomicell and retention in blood <u>Koichi Arai</u> ,Syota Fujii,Shinnichi Motizuki,Kazuo Sakurai
2Pe091	Improvement of mRNA loaded polyion complexes by the introduction of guanidinium groups <u>Mao Hori,</u> Naoto Yoshinaga,Satoshi Uchida,Horacio Cabral,Kazunori Kataoka
2Pf092	Design of acid-labile polyrotaxane-drug conjugates for releasing anticancer drugs in response to tumor microenvironments. <u>Mamoru Osawa</u> ,Atsushi Tamura,Nobuhiko Yui
2Pe093	Evaluation of molecular state of poloxamer 407 on the surface of drug nanoparticle <u>Kenjirou Higashi</u> ,Yosuke Kuroiwa,Keisuke Ueda,Kunikazu Moribe
2Pf094	Design of intracellular environment-responsive peptide nanofibers for antigen delivery. <u>Saori Takeshima</u> ,Sayaka Koeda,Tomonori Waku,Naoki Tanaka
2Pe095	Development of poly(amino acid)-based carrier that loads gemcitabine via reversible linkage and its evaluation in pancreatic cancer model <u>Xiaomeng Liu</u> ,Hiroyasu Takemoto,Takahiro Nomotoq,Makoto Matsui,Keishiro Tomoda,Nobuhiro Nishiyama
2Pf096	Application of biodegradable injectable polymer formulation exhibiting temperature- responsive irreversible gelation as a hemostatic agent <u>Soichiro Fujiwara</u> ,etsushi Yamaji,Keisuke Kawahara,Yasuyuki Yoshida,Yuta Yoshizaki,Akinori Kuzuya,Yuichi Ohya
2Pe097	Development of nanohybrids of extracellular vesicle with magnetic nanogel and evaluation of their function as nanocarriers <u>ryosuke mizuta</u> ,riku kawasaki,Shinichi Sawada,yoshihiro Sasaki,kazunari Akiyoshi

- 2Pf098 Development of polymeric nanoparticles toward facile encapsulation of boronic drugs with high stability in blood stream <u>Yuya Suzuki</u>,Ahram Kim,Yukio Nagasaki
- 2Pe099 Poly(ornithine) based nanomedicine for liver diseases <u>Yota Ibayashi</u>,Long Binh Vong,Yukio Nagasaki
- 2Pf100 Development of Shape-memory Balloon for Bone Tumor Treatment Sosuke OUCHI,Eri NIIYAMA,Koichiro UTO,Akihiko KIKUCHI,Mitsuhiro EBARA
- 2Pe101 Protein corona analysis of albumin-imprinted nanogels in human serum <u>Kentaro Kiguchi</u>,Yukiya Kitayama,Toshifumi Takeuchi
- 2Pf102 Cellar uptake of albumin-imprinted nanogels into living cells <u>Natsuki Hayakawa</u>,Takuya Yamada,Yukiya Kitayama,Toshifumi Takeuchi

## F. INDUSTRIAL POLYMERS AND TECHNOLOGY

- 2Pe105 Lowering effect of curing temperature of cyanate ester resin caused by various curing accelerators Keisuke Izu,Yuichiro Tokoro,Toshiyuki Oyama
- 2Pf106 Synthesis of a novel polycyclic epoxy resin with bulky structure <u>Hiroko Iwakiri</u>,Yuichiro Tokoro,Toshiyuki Oyama
- 2Pe107 Creation and Controlling Mechanical Property of Tough Composite Materials Using Macroscopic Sacrificial Bonds <u>Tsuyoshi OKUMURA</u>,Riku TAKAHASHI,Daniel R. KING,Tasuku NAKAJIMA,Takayuki NONOYAMA,Takayuki KUROKAWA,Jian Ping GONG
- 2Pf108 Microfabrication of high strength gel with a 3d printer <u>Kyuichiro Takamatsu</u>,Hiroyuki Sasaki,Masaru Kawakami,Hidemitsu Furukawa
- 2Pe109 Fabrication of Line & Space Structure and Wiring on 3D Surface features with Imprinting Process

Shogo Ota, Akihiko Nemoto, Yunfeng Zheo, Takashi Kurose, Hiroshi Ito

- 2Pf110 Structure and Properties of Poly(ethylene terephthalate) Fiber Webs Prepared through Laser-Heated Electrospinning and Biaxial Stretching Processes <u>Tomoki Tokuda</u>,Takuya Hara,Atsuya Odake,Wataru Kita,Midori Takasaki,Haruki Kobayashi,Katsufumi Tanaka,Wataru Takarada,Takeshi Kikutani
- 2Pe111 Thermally Conductive One-Dimensional Polymer Nanostructures Obtained by Nanoimprinting with Aluminum Oxide Template <u>Paritat Muanchan</u>,Yunfeng Zhao,Takashi Kurose,Hiroshi Ito
- 2Pf112 Synthesis of fluoropolymer with cage silsesquioxane <u>Moeka Sano</u>,Tadashi Kanbara,Tomoko Yajima
- 2Pf114 Surface treatment for silicone elastomer by Atrp Kunio Johnin
- 2Pe115 Antifouling surface treatment of aluminum <u>Nobuhito Katsumura</u>,Hideo Sotokawa,Yuta Tnanida,Norihisa Okada
- 2Pf116 Novel transparent inter-layer film of poly-blend for laminated organic glass <u>yoshikatsu mizukami</u>,eiji Akiba
- 2Pe117 Adhesion Mechanism of Pressure-Sensitive Adhesive Using Force Curve Measured by Atomic Force Microscopy <u>Shun Okada</u>,Syuji Fujii,Yoshinobu Nakamura,Yoshiaki Urahama,Ken Nakajima,Makiko Ito,Xiaobin Liang
- 2Pf118 Mechanical properties and tensile rate dependency of crosslinked polyacrylic pressuresensitive adhesives
   <u>Yusuke Kashihara</u>,Shun Okada,Syuji Fujii,Yoshinobu Nakamura,Yoshiaki
   Urahama,Shigeki Hikasa,Kazuko Fujiwara
- 2Pe119 Lowering of water absorption of inorganic particle-filled epoxy resin by the addition of silane coupling agent

<u>Takashi Nakamura</u>,Ryota Tsutsumi,Syuji Fujii,Yoshinobu Nakamura

- 2Pf120 Surface modification of PEN substrates by layer-by-layer assembly of polyelectrolyte multilayer thin films for their electroless deposition <u>Toshiyuki TAMAI</u>,Mitsuru WATANABE,Yasuyuki KOBAYASHI,Yoshio NAKAHARA,Setsuko YAJIMA
- 2Pe121 Preparation and physical properties of transparent flexible materials using reactive poly(vinyl butyral) <u>Miku Nakagawa</u>,Yuya Aoki,Hideki Sugimoto,Shogo Nobukawa,Katsuhiro Inomata,Eiji Nakanishi
- 2Pf122 The effects of matrix component and the silica particle addition on the physical properties of glass cloth/acryl composite materials <u>Kazuhiro Sakai</u>,Shumma Tonouchi,Hideki Sugimoto,Shogo Nobukawa,Katsuhiro Inomata
- 2Pe123 Preparation and physical properties of acryl based transparent hybrid materials with various alumina fillers <u>Haruka Yoneki</u>,Chiko Naruse,Hideki Sugimoto,Syougo Nobukawa,Katsuhiro Inomata,Eiji Nakanishi
- 2Pf124 Development of modified cellulose synthesis method using temperature controlled type milling machine <u>Takuma Aida</u>,Tomonori Koda,Ken Miyata,Taichi Nishio,Bungo Ochiai,Akihiro Nishioka
- 2Pe125 Report about ultraviolet deterioration of plastic plate. <u>Hanae Kobayashi</u>,Hitomi Ejiri,Norio Urayama

## Fri. May 25

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

# A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

3Pa001	Synthesis and secondary structure of poly(m-phenylene vinylene) having triethylene glycol via glutamic acid in the side chain <u>Moeka Inoue</u> ,Kayo Terada,Mime Kobayashi,Tsuyoshi Ando
3Pb002	Synthesis of fluorine-containing π-conjugated polymers having ring-fused pyridinium salts via intramolecular cyclization reaction <u>Honoka Nishimi</u> ,Yuki Asanuma,Hiroki Nishiyama,Ikuyoshi Tomita,Shinsuke Inagi
3Pa003	In-plane growth of PEDOT films by bipolar electropolymerization <u>Tempei Watanabe</u> ,Hiroki Nishiyama,Ikuyoshi Tomita,Shinsuke Inagi
3Pb004	Synthesis Fully π-Conjugated Regioregular Macrocyclic Poly(3-Hexylthiophene) <u>Minato Nakamura</u> ,Masaaki Hosokawa,Takuya Yamamoto
3Pa005	Synthesis of poly(arylene alkynylene ketone)s via Sonogashira coupling polymerization <u>soshun ono</u> ,Katsuya Maeyama
3Pb006	Synthesis of Bifacial π-Conjugated Polymers <u>Daiki Abe</u> ,Fumitaka Ishiwari,Takanori Fukushima
3Pa007	Synthesis of electron-deficient semiconducting polymers with arylsilylalkyl side chains Tomoya Higashihara, <u>Uran Sato</u>
3Pb008	Synthesis and photoluminescence property of polystyrene bearing with oligofluorene graft chains <u>Risa Hashimoto,</u> Yuta Shiihashi,Kenji Sugiyama
3Pa009	Preparation of polyfluorene brush by surface-initiated polymerization Naoya Kitamura, <u>Takehiro Kawauchi</u>
3Pb010	Development and evaluation of optical properties of regioregular conjugated polymers based on boron element-blocks <u>Kazuo Tanaka</u> ,Misuzu Fukuyama,Shunichiro Ito,Yoshiki Chujo

- 3Pa011 Synthesis of π-conjugated polymers possessing ketoimine complex unit at the side chain <u>Kohei Teki</u>,Hiroki Saito,Atsushi Kimoto
- 3Pb012 Synthesis of π-conjugated polymer complex possessing dicyanoethylene-substituted quinacridone with near infrared absorption <u>Tomoka Fujii</u>,Atsushi Kimoto
- 3Pa013 Synthesis and functions of conjugated polymers containing dithienoarsole via transition metal-catalyzed coupling reactions. <u>Chieko Yamazawa</u>,Hiroaki Imoto,Kensuke Naka

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

- 3Pa017 Depth-resolved analysis of phase-separated structure in an elastomer thin films of ABAtype triblock copolymer utilizing X-ray and neutron beam <u>Eri Miura</u>,Katsuhiro Yamamoto
- 3Pb018 in-situ measurement of self-assembling blockcopolymer thin film with GISAXS <u>Takuya Omosu</u>,Mikihito Takenaka,Hiroki Ogawa,Kenji Yoshimoto,Tsukasa Azuma,Katsuyoshi Kodera
- 3Pa019 Observation of Crystallization Behavior near the Surface of PET Thin Film via Timeresolved Tender X-ray GISAXS Measurement <u>Shogo Tomita, Hiromasa Ohta, Hideaki Takagi, Noriyuki Igarashi, Nobutaka Shimizu</u>
- 3Pb020 Development of GISAXS-CT combined with total variation minimization. <u>Hiroki Ogawa</u>,Shunsuke Ono,Yukihiro Nishikawa,Mikihito Takenaka,Akihiko Fujiwara
- 3Pa021 Direct observation of spin coating process of polystyrene-b-poly (2-vinylpyridine) thin film under selective solvent Tsubasa Matsunaga,Hiroki Ogawa,Mikihito Takenaka,Tsukasa Miyazaki,Taizo Kabe
- 3Pb022 Glass transition and interfacial dynamics in stacked thin PMMA films Megumi Ooe,Kohei Suzuki,Koji Fukao,Koichiro Sadakane,Norifumi Yamada
- 3Pa023 Structure and Lubrication of Cationic Polymer Brush / Sacran Multilayered Films <u>Kosuke Igata</u>,Yoshihiro Inutsuka,Tatsunori Sakamaki,Keiko Higaki,Norifumi Yamada,Maiko Okajima,Yuji Higaki,Tatsuo Kaneko,Atsushi Takahara
- 3Pb024 Neutron reflectivity measurements for phase separation and dewetting in dPS/P2ClS thin films

<u>Takuto Fuwa</u>,Hiroki Ogawa,Mikihito Takenaka,Toshiji Kanaya,Norifumi Yamada

- 3Pa025 Interfacial Segregation by Spin-Coating in Immiscible Polymer Blend Thin Films and Their Thermal Stability Shumpei Sakai,Seita Hamasaki,Yishihisa Fujii,Naoya Torikai
- 3Pb026 Crystalline morphology of poly(butylene succinate) and its copolymer immobilized on silicon substrates Risako Oka.Toshivuki Kataoka.Takavuki Ikehara
- 3Pa027 Highly ordered smectic phase in amphiphilic liquid crystal diblock copolymer <u>Hidemi Tsunemine</u>,Sadayuki Asaoka
- 3Pb028 The deposition mechanism of plasma polymerized-thin film "Nano Suit" <u>Nanami Sawayama</u>,Rin Kadowaki,Daisuke Ishii
- 3Pa029 Detection of dynamic polymer brush formation by high speed dynamic contact angle measurement Miharu Nakamura,Kohzo Ito,Hideaki Yokoyama
- 3Pb030 Analysis of dynamic polymer brush by adhesion force measurement <u>Taihei Aoki</u>,Hirokazu Tanoue,Norifumi Yamada,Kohzo Ito,Hideaki Yokoyama
- 3Pa031 Tuning morphology of nano-patterned polymer brushes by crosslinking Shunsuke Nishimura,<u>Shintaro Nakagawa</u>,Naoko Yoshie
- 3Pb032 Hydration State of Poly(sulfobetaine) Brushes Depending on the Interaction with Coexisting Ions <u>Tatsunori Sakamaki</u>,Yoshihiro Inutsuka,Yuji Higaki,L. Norifumi Yamada,Atsushi

Takahara

- 3Pa033 Stereocomplex formation to polymer brush and surface wettability evaluation <u>Nobuyuki Otozawa</u>,Tomoki Kato,Masanao Sato,Hitoshi Shimamoto,Tomoyasu Hirai,Atsushi Takahara
- 3Pb034 Molecular structural analysis of concentrated polymer brushes in a swollen state by pMAIRS Kosuke Nishiumi,<u>Keita Sakakakibara</u>,Yoshinobu Tsujii,Takafumi Shimoaka,Takeshi

Kosuke Nishiumi,<u>Keita Sakakakibara</u>,Yoshinobu Tsujii,Takafumi Shimoaka,Takeshi Hasegawa

3Pa035 Aggregation States of Maleic Anhydride Grafted Polypropylene Hybridized with Silica Particles

Kouichi Kouka, Shigeki Hikasa, Yukari Oda, Daisuke Kawaguchi, Keiji Tanaka

- 3Pb036 Low Temperature Crystallization from Metastable State of Bisphenol-A Polycarbonate and nano-particles Mixtures Kazuma Matsuyama,Yasuhiro Matsuda,Shigeru Tasaka
- 3Pa037 Preparation of a Si(111) atomically flat substrate via a wet process and evaluation as an AFM substrate for observations of polymer chain structures <u>Yuki Sasahara</u>,Yuya Miyake,Jiro Kumaki
- 3Pb038 Development of in-situ tensile 3D TEM holder for soft materials <u>Takeshi Higuchi</u>,Yasuhiro Sakamoto,Takashi Gondo,Hiroya Miyazaki,Keizo Akutagawa,Takashi Shimizu,Hideo Nishioka,Yoshihiro Okura,Hiroshi Jinnai
- 3Pa039 Influence of Sample Preparation on Measurements of Elastic Modulus of Cured Epoxy Resins by AFM
   <u>Shinichiro Sakurai</u>,Kyoko Adachi,Genki Takeuchi,Yuichi Taniguchi,Keiichi Hayashi,Shin-etsu Fujimoto
- 3Pb040 Preparation of graphene oxide-cationic carbon nitrides membranes for water purification Takuya Gou,Daichi Tada,<u>Shinobu Uemura</u>
- 3Pa041 In-situ observation of thin film formation during vapor deposition polymerization by simultaneous measurement using infrared spectroscopy and quartz crystal microbalance technique. Takaaki Tanaka,Keita Nonaka,Akira Tsuji,Ryosuke Matsubara,Atsushi Kubono
- 3Pb042 Evaluation of Physical Properties of Anisotropic Polysaccharide Composite Films Prepared by Roll Press Technique <u>Masahiro Sakaguchi</u>,Yuichi Nikaido,Kazutoshi Iijima,Mineo Hashizume

# C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 3Pa045 Electrophoretic Deposition and the Temperature-Switching of Non-Ionic Thermoresponsive Polymers Ken Kimizu,Mikihiro Hayashi,Akinori Takasu
- 3Pb046 Development of Easily Peelable and Heat-Resistant Pressure Sensitive Adhesives <u>Hiroto Murakami</u>,Satoshi Yamagushi,Minoru Nanchi
- 3Pa047 Preparation of thermo-responsive wrinkled surfaces <u>Hironori Izawa</u>,Jun-ichi Ishitobi,Shinsuke Ifuku,Minoru Morimoto,Hiroyuki Saimoto
- 3Pb048 A Cu-free clickable surface prepared by polymer coating and quantification of clickable groups on a surface Koki Miyahara,Rika Sakai,Tatsuo Maruyama
- 3Pa049 Surface-modifying coating for polypropylene just by painting <u>Manami Hara</u>,Keisuke Nishimori,Shigeru Kitahata,Takashi Nishino,Tatsuo Maruyama
- 3Pb050 Functionalization of a cellulose surface by coating a fluorine-containing surfactant and a PEGylated polymer Kazuki Kaneko,Manami Hara,Takashi Nishino,Tatsuo Maruyama
- 3Pa051 A novel method to quantitate an amount of azide groups on material surfaces using a clickable fluorescent compound <u>Rika Sakai</u>,Hiroki Iguchi,Tatsuo Maruyama

3Pb052	Fabrication and Liquid Transport of Flexible Microfluidics Devices Imitating Legs of Ligia Exotica
	<u>Tsubasa Kashima</u> ,Koki Kawai,Daisuke Ishii
3Pa053	Fabrication of Hydrophobic Surfaces with Pentafluorosulfanyl Groups <u>Yijun Xie</u> ,Takuya Matsumoto,Chizuru Hongo,Takashi Nishino
3Pb054	Directional Liquid Transport by Surface Structure Imitated with Hair Cuticle and Wetting Evaluation
	Shingo ITO,Nozomi ITO,Daisuke ISHII
3Pa055	Synthesis of zwitterionic dynamic polymer blush <u>Kazuho Miyajima</u> ,Norifumi Yamada,Kozo Ito,Hideaki Yokoyama
3Pb056	Synthesis and Surface Properties of Poly(substituted methylene)s with Hydrophilic or Hydrophobic Groups in its Side Chain <u>Eichi Kannan</u> ,Takuya Matsumoto,Chizuru Hongo,Takashi Nishino
3Pa057	Display of carboxy groups on an outermost surface using surface-segregation of synthetic polymer
3Pb058	Keisuke Nishimori,Shigeru Kitahata,Takashi Nishino, <u>Tatsuo Maruyama</u> Development of molecular tripods that enable the vertical orientation of functional
01 0000	molecular units on solid substrates <u>Saho Ohsawa</u> ,Hiromu Tago,Fumitaka Ishiwari,Takanori Fukushima,Shintaro Fujii,Manabu Kiguchi,Tomofumi Tada
3Pa059	Control of polymer/water interfacial structures by random copolymerization and effect on blood-compatibility
3Pb060	<u>Yuto Segami</u> ,Tomoya Ueda,Daiki Murakami,Masaru Tanaka Modification of Chemically Stable Polymeric Materials 100. Improvement in the Adhesion
51 5000	of FRP or CFRP and Stainless Steel Hitoshi Kanazawa, <u>Aya Inada</u>
3Pa061	Relationship between dynamic wettability and initial tackiness of polyacyylates with different alkl chain length <u>Leo Ozeki</u> ,Akiyoshi Takeno,Shinnya Takahashi
3Pb062	Preparation of solid phase extraction agent with properties of antifouling and metal separation. <u>Kohei Takiyama</u> ,Yutaka Sugahara,Shigehiro Kagaya,Makoto Gemmei-Ide
3Pa063	Surface Wettability and Nanostructure Formation of Fluorinated Polymer Self-Assemblies Yongjoon Im,Yu Gao,Huie Zhu,Shunsuke Yamamoto,Tokuji Miyashita,Masaya Mitsuishi
	D. BIOPOLYMERS AND BIORELATED POLYMERS
3Pb066	Structure and stability of the retinal prosthesis composed of a polyethylene film coupled photoelectric dyes <u>Koichiro Yamashita,</u> Yuki Teraoka,Tetsuya Uchida,Toshihiko Matsuo
3Pa067	Fabrication of PLLA/ceramics composites with urethane bond (III) - Effect of biphase calcium phosphates - <u>Mika Saito, Masahiro Fujita, Yuko Takeoka, Masahiro Rikukawa</u>
3Pb068	Hydrophobically-modified poly (vinyl alcohol) as antithrombogenic materials <u>XI CHEN</u> ,Ryo Mizuta,Akihiro Nishiguch,Tetsushi Taguchi
3Pa069	Effect of the side-chain spacing of PMEA on blood compatibility and hydration state <u>Toshiki Sonoda</u> ,Shingo Kobayashi,Masaru Tanaka
3Pb070	Correlation between survivability of cancer cells and blebbing-like formation on polymer surfaces with intermediate water <u>Shogo Sekida</u> ,Aki Kashiwazaki,Asuka Sekishita,Tsai Meng-Yu,Humihiro Aratsu,Masaru Tanaka
3Pa071	Surface properties of anti-biofouling star polymer coating conjugated with cell-adhesive

peptide. <u>Fumitoki Nagura</u>,Masayasu Totani,Mime Kobayashi,Kayo Terada,Tsuyoshi Ando

3Pb072	Synthesis of anti-biofouling star polymer coating silyl groups ant it's anti-biofouling ability as a coating on silicone rubber <u>toshihiro Takahashi</u> ,Masayasu Totani,Mime Kobayashi,Kayo Terada,Tsuyoshi Ando
3Pa073	Preparation of gelatin nanoparticles incorporating Molecular Beacon to visualize intracellular mRNA <u>Yuki Murata,</u> Jun-ichiro Jo,Yasuhiko Tabata
3Pb074	Deep Tissue in vivo Imaging Based on Near-Infrared Fluorescent Polymer Nanoparticles <u>Masao KAMIMURA</u> ,Kohei SOGA
3Pa075	Surface modification of TiO2 photonic crystal with cationic polymer bearing PEG grafts <u>Tatsuki Toda</u> ,Eiji Yuba,Tatsuro Endo,Atsushi Harada
3Pb076	Quantification of the interaction force between proteins and thermoresponsive polymer brush surfaces modified with ligands Koki Uehara,Ryo Ishihara, <u>Akihiko Kikuchi</u>
3Pa077	Potentiometric biosensing based on electron transfer between enzyme and conducting polymer <u>Mamoru Kameda</u> ,Mizuki Kondo,Takashi Kuwahara,Masato Shimomura
3Pb078	Effect of dopant ions on the electron transfer from poly(3,4-ethylenedioxythiophene) films
	to laccase Takashi Kuwahara,Mamoru Kameda,Mizuki Kondo,Masato Shimomura
3Pa079	Preparation of a microchip toward cancer-specific extracellular vesicle detection
51 a07 9	<u>Ryo MATSUI</u> ,Ryo ISHIHARA,Tadaaki NAKAJIMA,Asuka KATAGIRI,Kazuo HOSOKAWA,Mizuo MAEDA,Yasuhiro TOMOOKA,Akihiko KIKUCHI
3Pb080	Post-imprinting modified molecularly imprinted polymers for highly sensitive fluorescent detection of biomarker glycoprotein. <u>Takahiro Morishige,</u> Eri Takano,Yuri Kamon,Yukiya Kitayama,Tosifumi Takeuchi
3Pa081	Specific binding nano-cavities for biomarker glycoproteins capable of glycans and
	size/shape recognition Tetsuro Saeki,Hirobumi Sunayama,Eri Takano, <u>Yuri Kamon</u> ,Yukiya Kitayama,Toshifumi Takeuchi
3Pb082	Molecularly imprinted polymers conjugated with antibodies as interaction sites for exosome fluorescent sensing <u>Kisho Mori</u> ,Takahiro Morishige,Eri Takano,Yukiya Kitayama,Toshifumi Takeuchi
3Pb084	A composite scaffold of gelatin and iron oxide nanoparticles for photothermal cancer therapy
	<u>Naoki Kawazoe</u> ,Jing Zhang,Guoping Chen
3Pa085	Fabrication and in vitro degradation of silk fibroin based biomaterial scaffolds for tissue engineering material <u>Natsui Hattori</u> ,Kaori Numata,Yasumoto Nakazawa
3Pb086	Development of Silk Fibroin Film Immobilized Functional Molecule
	<u>Ryosei Hori</u> ,Yuya Ichida,Kodai Takahama,Kazumi Shimada,Ryou Tanaka,Yasumoto Nakazawa
3Pa087	Surface-tethering of vascular endothelial growth factor onto culture substrates based on sulfonated polyrotaxanes <u>Yoshinori Arisaka</u> ,Katsuya Hyodo,Satoshi Yamaguchi,Nobuhiko Yui
3Pb088	Preparation of stepwise myogenesis-mimicking matrices
51 5000	<u>Takashi Hoshiba</u> ,Natsumi Yokoyama
3Pa089	Effect of extracellular matrix remodeling on epithelial-mesenchymal transition during tumor progression. <u>Takashi Hoshiba</u>
3Pb090	Effects of elastic modulus of hydrogels forming 3-D microstructure on cancer cell migration Temebire Vaginuma Keijchire Kushire Madeka Tekaj
3Pa091	<u>Tomohiro Yaginuma</u> ,Keiichiro Kushiro,Madoka Takai Application of biobased wrinkled films for cell culture substrates
5Fa091	Application of biobased withkied mins for cell culture substrates

<u>Tomoe Yonemura</u>,Hironori Izawa,Kohei Kuroda,Mayuko Noda,Norihiko Ito,Shinsuke Ifuku,Minoru Morimoto,Hiroyuki Saimoto

- 3Pb092 Preparation of composite cryogel with soluble eggshell membrane protein and polyvinyl alcohol for application of cell culture scaffold <u>Goki YOSHIDA</u>,Mizuki SUGAWARA,Ghamra RIFAI,Tetsu MITSUMATA,Norio TSUBOKAWA,Qiliang ZHOU,Yasuo SAIJO,Takeshi YAMAUCHI
- 3Pa093 Fabrication of functional culture surfaces by physical block copolymers coating and cell adhesion/ detachments behavior.
   <u>Hiroshi CHINEN</u>, Masamichi NAKAYAMA, Junichi TONEGAWA, Akihiko KIKUCHI, Masayuki YAMATO, Teruo OKANO
- 3Pb094 Construction of hybrid of cell spheroids with self-assembled nanogel <u>Hirotaka Kubo</u>,Riku Kawasaki,Sada-atsu Mukai,Shin-ichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi
- 3Pa095 Design of cultural surface having ability of scavenging reactive oxygen species for maintaining stemness of mesenchymal stem cells <u>Naoki Inuzuka</u>,Yutaka Ikeda,Mitsuaki Goto,Toshihiro Akaike,Yukio Nagasaki
- 3Pb096 Synthesis of gradient di-block polymer brushes and their effect on cell adhesion <u>Taishi Matsushita</u>,Tomoyuki Azuma,Keiichirou Kushiro,Madoka Takai
- 3Pa097 The Network Structure of Biodegradable IPN hydrogel and Cartilage Tissue Engineering Shohei Ishikawa,Kazutoshi Iijima,Mineo Hashizume,Michihiro Iijima,Hidenori Otsuka
- 3Pb098 Development of functional polymeric glue with complementary interaction for spatial cells arrangement <u>Taihei Nishimoto</u>,Ko Matsukawa,Kenichi Nagase,Hideko Kanazawa,Aya Mizutani Akimoto,Ryo Yoshida
- 3Pa099 Synthesis and characterization of biodegradable thermoresponsive hydrogel and cellular adhesion evaluation <u>Syuuhei Komatsu</u>,Taka-Aki Asoh,Ryo Ishihara,Akihiko Kikuchi

### **E. POLYMERS AND ENVIRONMENT**

- 3Pa103 Conversion of oleic acid to thermos-cross-linkable polyolefin and its water repellency <u>Yusuke Onose</u>,Kazuhisa Ohtake,Junpei Kuwabara,Takaki Kanbara
- 3Pb104 The application of hybrid polymer consisting of algal oil and sulfur to infrared optical materials <u>Kaho Oi</u>,Syuhei Oishi,Junpei Kuwabara,Takashi Fukuda,Hideo Watanabe,Makoto Watanabe,Takaki Kanbara
- 3Pa105 Synthesis of polyester dendrimers having dianhydromannitol units <u>Seiya Itokawa</u>,Rie Suzuki,Yuzo Ishigaki,Keigo Aoi
- 3Pb106 Synthesis and lithium ion conductivity of electrolytes based on carbonate derived from dianhydromannitol and ethylene glycol units <u>Sayaka Watanabe</u>,Yuzo Ishigaki,Keigo Aoi
- 3Pa107 Ring opening polymerization of 6-membered ring cyclic carbonate with side groups <u>Masayoshi Honda</u>,Hideki Abe
- 3Pb108 Synthesis and Properties of Aromatic Polyesters Containing Bio-based Anthraquinone Derivatives Tatsuya GOTO,Hideki ABE,Tadahisa IWATA
- 3Pa109 Biosynthesis of Block Copolymer metabolized from Phenylalkanoic Acid and Nonanoic Acid as carbon sources by P.putida Yuki Tanaka,Takahiko Nakaoki
- 3Pb110 Biosynthesis and Physical Property of PHBV-b-PHB-b-PHBV triblock copolymer by R.eutropha Tomo Komaeda.Takahiko Nakaoki
- 3Pa111 Fabrication of P(3HB-*co*-3HH) fibers and nanofibers with antimicrobial properties <u>Rina Afiani Rebia</u>,Nurul Shaheera Binti Sadon,Toshihisa Tanaka

- 3Pb112 Low-temperature formability of bio-based poly(carbonate-ester) block copolymers <u>Thi Thu Thao Nguyen</u>,Ikuo Taniguchi
- 3Pa113 Improvement of physical properties of poly(L-lactic acid) by addition of Eucommia elastomer
  - <u>Ginga Hoshi</u>,Taka-Aki Asoh,Hiroshi Uyama,Kinkoh Sho,Yoshihisa Nakazawa
- 3Pb114 The effect of talc modified by using lactic acid on crystallization of polylactic acid <u>Satsuki Oohigashi</u>,Joji Kadota,Akinori Okada,Hiroshi Hirano,Yasuyuki Agari
- 3Pa115 Physicochemical, structural and biodegradable properties of poly(ethylene carbonate) and poly(lactic acid) blends Nur Azrini Binti RAMLEE,Yoichi TOMINAGA
- 3Pb116 Preparation of Porous Materials Using Biodegradable Polymers and Application to Scaffolds (I) - Fabrication of Porous Materials based on Poly(L-lactic acid) Using NIPS Method -Marika Mukai,Masahiro Fujita,Yuko Takeoka,Masahiro Rikukawa
- 3Pa117 Biodegradation of Polyamide 4 with Titanium(IV) oxide Atsuyoshi Nakayama,Norioki Kawasaki,Naoko Yamano,Akihiko Masui
- 3Pb118 Antibacterial of polyamide 4 controlled biodegradation Akihiko Masui,Satoshi Ikawa,Atsuyoshi Nakayama,Naoko Yamano
- 3Pa119 Comparison of phosphate adsorption performance in column and practically evaluation of phoaphate adsorbent "Fe3+(vinylon fiber-g-poly-4-vinyl pyridine)" under various synthesis conditions Moeri Takada,Shota Nishimura,Keiji Yamashita
- 3Pb120 Addition of stimulus responsiveness to Cs + adsorbent immobilizing Prussian Blue and evaluation of Cs adsorption performance under practical conditions <u>Masumi Sakakibara</u>,Kouki Kobayashi,Fumika Takashi,Keiji Yamashita
- 3Pa121 Formaldehyde decomposition with sheath-core type electrospun PVA nanofibers containing titanium oxide and enzyme. Yuichi Yoshida,Tomonori Waku,Naoki Tanaka
- 3Pb122 Miscibility maps of cellulose propionate/poly(vinyl alcohol) blends: Effect of substituent distribution on the blend miscibility Kento Kaseda,Kazuki Sugimura,Yoshiyuki Nishio
- 3Pa123 Microphase-separated structure of cellulose acetate/diblock copolymer blends Shota Morimoto,Kazuki Sugimura,Yoshiyuki Nishio
- 3Pb124 Development of Anti-fouling RO Membrane <u>Yohei Adachi</u>,Tuyoshi Hamada,Jyun Okabe,Takahumi Ogawa,Masahiro Kimura

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

# A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Synthesis of block copolymers consisting of hyperbranched or linear polyamide and 3Pc001 polyethyleneimine and transcription of their self-assembled structures to silica by silicification Kohei Uchida, Geng ZHANG, Yoshihiro OHTA, Tsutomu YOKOZAWA Synthesis of hybrid nanomaterials by means of self-assembly and silicification of poly(3-3Pd002 hexylthiophene)-b-poly(ethyleneimine) and their optical properties Geng Zhang, Yoshihiro Ohta, Tsutomu Yokozawa Synthesis of a poly(guanamine) having cyclic guanamine unit 3Pc003 Haruki Sasaki, Tomohiro Kotaki, Yoshiyuki Oishi, Yuji Shibasaki Synthesis and Morphological Analysis of Monodisperse Block Copolymers Consisting of 3Pd004 Saccharide and Polyterpene Takuya Isono, Nao Kawakami, Kenji Tajima, Toshifumi Satoh

3Pc005	Synthesis and solution behavior of amphiphilic block copolymer containing cinnamoyl groups <u>Hiroki Kabata</u> ,Shunta Nakajima,Kenji Sugiyama
3Pd006	Synthesis and surface characterization of block copolymers composed poly(perfluoroalkoxysilyl methacrylate) segment <u>Kumi Nakamura</u> ,Kei Fukumoto,Kenji Sugiyama
3Pc007	Synthesis and biodegradability of end-functionalized polycaprolactone with perfluoroalkyl group <u>Kazuho Hirose</u> ,Kenji Sugiyama
3Pd008	Elucidation of relation between molecular aggregation structure in poly(methacrylic acid) with well-controlled stereoregularity and its surface physical properties <u>Kiyu Uno</u> ,Tomoyasu Hirai,Yuji Higaki,Atsushi Takahara
3Pc009	Synthesis of star block copolymers containing PNIPAM and temperature responsive of micelles <u>Taiga Tamura</u> ,Soichiro Hirokawa,Kenji Sugiyama
3Pd010	Preparation of Temperature-Responsive Gel with Movable Cross-Linking Points via Polypseudorotaxane <u>Takuro Kawashima,</u> Uno Takahiro,Itoh Takahito,Kubo Masataka
3Pc011	Synthesis of polyrotaxane by inclusion atom transfer radical polymerization, using the bulky initiator <u>Fukito Kuramoto,</u> Masatoshi Kidowaki,Kohzo Ito,Yuki Hayashi
3Pd012	Preparation of polyrotaxane using reversible addition-fragmentation chain transfer polymerization <u>Yu-Cheng Wang</u> ,Rina Maeda,Hideaki Yokoyama,Kohzo Ito
3Pc013	Synthesis of Multi-branched Crown Ether Compounds by Thiol-ene Reaction and its Supramolecular Material <u>Masanari Okubashi</u> ,Kazuhiro Yamabuki,Kenjiro Onimura
3Pd014	Nonlinear Effect in the Helix Formation of Poly(diphenylacetylene) Derivatives Bearing Chiral Pendant Groups <u>Hidetaka ISHIBASHI</u> ,Daisuke HIROSE,Tatsuya NISHIMURA,Tomoyuki IKAI,Katsuhiro MAEDA

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

3Pc015	Effect of Molecular Weight and Composition Distributions on Microphase-Separated
	Structures of a Block Copolymer
	<u>Komei Isono,</u> Takeshi Higuchi,Katsumi Hagita,Isamu Kuroki,Hiroshi Jinnai
3Pd016	Solution properties of a biocompatible HPMA polymer by using scattering techniques <u>Kiyomasa Doi</u> ,Rintaro Takahashi,Shota Fujii,Kazuo Sakurai

- 3Pc017 Composition Distribution Analysis of Polypropylene Compounds by Advanced Chromatographic Techniques <u>Mako Fujiki</u>,Sumie Yamamoto,Takumi Yamanoue
- 3Pd018 End-Group Amplification based on 1H and 19F qNMR using Cross Reference Technique <u>Makoto Obata</u>
- 3Pc019 Similarity of Critical Conditions on HPLC for Miscible Polymer Pairs Satoru Matsushima,Yuki Kobayashi,<u>Yuya Doi</u>,Atsushi Takano,Yushu Matsushita
- 3Pd020 Molecular interaction between fiber/polymers and low-molecular weight compounds 28. Difference in adsorption characteristics of polyethylene, polyvinyl chloride, polyvinylidene chloride <u>Aya Inada</u>,Hitoshi Kanazawa
- 3Pc021 Characterization of cellulosic Janus-type bottlebrushes with different side chain length in dilute solutions Yuji Kinose,Keita Sakakibara,Yoshinobu Tsujii
- 3Pc023 Study on nonsolvent induced phase separation by in-situ small angle X-ray scattering

	<u>Shun Shimura,</u> Masayuki Hanakawa,Takaaki Yasuda,Hiroki Eimura,Masaru Nakada,Kazuyuki Okada,Masahiro Kimura
3Pd024	Molecular Simulation of Gelation of Associating Polymers II: Competition between Intra- and Intermolecular Association <u>Motoki Shibata</u> ,Tsutomu Furuya,Tsuyoshi Koga
3Pc025	Studies on Dynamics of Highly Turbid Suspensions Observed by Electrophoretic Ultrasound Scattering Techniques <u>Shuzo Kaji,</u> Tomohisa Norisuye,Hideyuki Nakanishi,Qui Tran-Cong-Miyata
3Pd026	Dynamics of Concentrated Nanoparticle Suspensions Probed by Dynamic Ultrasound Scattering Techniques <u>Masashi Fujisawa</u> ,Tomohisa Norisuye,Hideyuki Nakanishi,Qui Tran-Cong-Miyata
3Pc027	Studies on Structure and Elastic Properties of Microparticles in Suspension during Polymerization by Ultrasonic Spectroscopy <u>Sota Okura</u> ,Tomohisa Norisuye,Hideyuki Nakanishi,Qui Tran-Cong-Miyata
3Pd028	Ultrasonic Scattering Studies on Nanobubbles <u>Kimika Tanimori,</u> Tomohisa Norisuye,Hideyuki Nakanishi,Qui Tran-Cong-Miyata
3Pc029	Influence of cross-linking density and distribution on rheological properties of polymer microgel
	<u>Kazuki Shibasaki</u> ,Hiroki Takeshita,Koiti Hirao,Katsuhisa Tokumitsu
3Pd030	Synthesis of Various Molecular Weight Side Chain Crystalline Block Copolymer and their Influence for Thermal Rheological Fluid Effect <u>Taiga Hiromori</u> ,Sho Hirai,Ryoko Nakano,Hiroshi Sekiguchi,Shigeru Yao
3Pc031	Dissipative Particle Dynamics Simulation of Self-Assembly in a Symmetric Bolaamphiphilic Solution <u>Susumu Fujiwara</u> ,Yoshiki Iida,Takehide Tsutsui,Tomoko Mizuguchi,Masato Hashimoto
3Pc033	Long-range ordered smectic phase induced by random copolymerization <u>Keisuke Takishima,</u> Mitsuo Hara,Shusaku Nagano,Takahiro Seki
3Pd034	Thermotropic liquid crystals formed by syndiotactic polymethylenes with mesogenic moieties in the side groups <u>Hiroyuki Kudo,</u> Mihoko Nishimura,Masatoshi Tokita
3Pc035	Synthesis and phase transition behavior of liquid crystalline polyesters with sulfur linkages in the main chains <u>Yuki Arakawa</u> ,Yukito Sasaki,Hideto Tsuji
3Pd036	Phase Transition Behavior of Side-Chain Liquid Crystal Polymers Grafted on Nanoparticles <u>Kenta Yazawa</u> ,Naoto Iwata,Masatoshi Tokita
3Pc037	Phase Behavior of Random Copolymers Having Side-Chain Liquid Crystalline Groups with Different Spacer Lengths <u>Ryohei Suzuki,</u> Hiroki Takeshita,Katsuhisa Tokumitsu
3Pd038	Synthesis and Orientational Behavior of Ionic Liquid-Crystalline Polymers exhibiting Nematic Phase Taiki Watanabe,Genichiro Shimada, <u>Seiji Ujiie</u>
3Pc039	Thermotropic liquid-crystalline behavior of hydroxypropyl cellulose derivatives having an imidazolium group in the side chains Itaru Nakajima <u>,Kazuki Sugimura,</u> Yoshiyuki Nishio
3Pd040	Development of Liquid-Crystalline Organophosphates for Ion Transport <u>Masafumi Yoshio</u>
3Pc041	Dielectric relaxation and electrode polarization in imidazolium-based ionic liquid crystals II <u>Toshiharu Yamane,</u> Koji Fukao
3Pd042	Anisotropic thermal diffusivity of reactive mesogen with a photo-initiator in photo- polymerization measured by temperature wave analysis <u>Moena Oku</u> ,Meguya Ryu,Junko Morikawa

3Pc043	Time-resolved behavior and mechanism for optical switching between lamellar and gyroid structures in thermotropic liquid crystalline systems <u>Shoichi Kutsumizu</u> ,Aya Nagai,Hideaki Kondo,Yohei Miwa,Tomonori Kondo,Yasuhisa Yamamura,Kazuya Saito
3Pd044	Synthesis, phase transition behavior and optical properties of asymmetric rod-like liquid crystalline molecules with alkoxy and alkylthio groups <u>Yuko Ishida,</u> Yukito Sasaki,Yuki Arakawa,Hideto Tsuji
3Pc045	Synthesis and Self-assembly of Nanofabricating Liquid Crystalline Molecules <u>Mana Aoki</u> ,Kenta Shimokawa,Yuta Nabae,Teruaki Hayakawa
3Pc047	Surface Dilational Modulus of a Bubble Adsorbed by Polymers <u>Midori Yamamoto</u> ,Masami Kawaguchi
3Pd048	Interfacial tension measurement by measuring change in size of thin films on the water: Analysis of dynamic polymer brushes interface <u>Masayuki Saito</u> ,Kohzo Ito,Hideaki Yokoyama
3Pc049	Preparation of Poly-e-Caprolactone Grafted Hollow-type Spherical Bacterial Cellulose Gel using Guanidine type Organic base Catalyst <u>Yutaka Sato</u> ,Toru Hoshi,Takao Aoyagi
3Pd050	Micro-analysis of a single poly( <i>N</i> , <i>N</i> -diethylacrylamide) particle formed by coupling a photothermal effect and an optical force in water <u>Mitsuhiro Matsumoto</u> ,Taka-Aki Asoh,Tatsuya Shoji,Takashi Nishiyama,Hideo Horibe,Yukiteru Katsumoto,Yasuyuki Tsuboi
3Pc051	Analysis of Polymer Concentration in a single Poly( <i>N</i> -isopropylacrylamide) droplet Formed by Optical Force : Molecular Weight Dependence <u>Kayo Fujiwara</u> ,Tatsuya Shoji,Mitsuhiro Matsumoto,Taka-Aki Asoh,Hideo Horibe,Takashi Nishiyama,Yasuyuki Tsuboi
3Pd052	Evaluation of Surface Characteristics of Hydrogels with Controlled Network Structure <u>Hayato Mizuno</u> ,Eiki Tan,Ichiro Sakuma,Yuki Akagi
3Pc053	Study on surface structure of gel material for contact lens by neutron reflectometry <u>Eri Ito</u> ,Daisuke Sutoh,Masaki Baba,Hiromi Maruyama,Katsuhiro Yamamoto
3Pd054	Evaluation of anisotropic dynamic wettabilities of a cuticle structure <u>Nozomi ITO</u> ,Shingo ITO,Daisuke ISHII
3Pc055	Recrystallization of Water and Methanol in Polystyrenes <u>Ryuta Yamada</u> ,Risa Tomita,Shigehiro Kagaya,Makoto Gemmei-Ide
3Pd056	Temperature Dependence of Water Transportation in Epoxy Adhesive Layer <u>Daiki Shomura</u> ,Yoshihisa Fujii,Masanobu Naito,Naoya Torikai
3Pc057	Molecular Dynamics Simulation of Adhesion Behavior in Metal Polymer Surfaces <u>Toshiaki Miura</u> ,Maki Funada,Yukihiro Shimoi,Hiroshi Morita
3Pd058	All-atom MD simulation of Molecular Walking along a Helical Polymer Chain as a Macromolecular Motor <u>Ken-ichi Shinohara</u> ,Yuu Makida
3Pc059	Water sorption behavior in thin Aquivion films <u>Shigeki Yonemori,</u> Norifumi L. Yamada,Daisuke Kawaguchi,Keiji Tanaka
3Pd060	Evaluation of surface properties of aromatic amphiphilic diblock copolymer on solid substrates (I) - Observation of adsorption - <u>Ayane Morikawa</u> ,Hinako Inoue,Masahiro Fujita,Yuko Takeoka,Masahiro Rikukawa
3Pc061	Molecular Polarization Change Accompanying Helix-sense Inversion of Surface-grafted Polyaspartate Thin Films <u>Kazuho Hosokawa,</u> Xiaobin Liang,Hidemine Furuya,Shinji Ando,Ken Nakajima
3Pd062	Friction and wear behavior of aliphatic polyamide reinforced with semi-aromatic polyamide fiber <u>Tomoya Omata,</u> Hiroki Uehara,Takeshi Yamanobe,Yuna Kamata,Masaki Kakiage
3Pc063	Evaluation of interfacial thickness between deuterated and non-deuterated polyamide 66 <u>Naoki Shimoura</u> , Takuya Matsumoto, Chizuru Hongo, Takashi Nishino

3Pd064 Preparation and gradient properties of molecular weight gradient thin film of poly(ethylene oxide) <u>Norikazu Tanaka</u>,Takuya Matsumoto,Takashi Nishino

#### C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Energy storage density of thin films of ferroelectric vinylidene fluoride terpolymers 3Pd066 Rikiya Tanaka, Naoto Tsutsumi, Wataru Sakai, Kenji Kinashi 3Pc067 Spectral sensitization for anomalous photovoltaic effect in ferroelectric liquid crystals Yuki Mori, Masahiro Funahashi, Atushi Seki 3Pd068 Stochastic Resonance of Organic Transistor with Internal Noise Yoshiha<u>ru Suzuki</u>,Teruo Kanki,Hidekazu Tanaka,Naoki Asakawa 3Pc069 Fabrication of synapse-inspired field effect transistor using dynamics of pi-conjugated polymer Riho Miyazaki, Ayumi Matsuoka, Yoshiharu Suzuki, Naoki Asakawa 3Pd070 Fabrication of stochastic delay-derivative device element using low-molecular liquid crystal / polymer mixture. Makoto Ohtomo, Ryota Maruyama, Naoki Asakawa 3Pc071 Synthesis of helical conjugated polymer with phenoxy radical Masashi Otaki,Hiromasa Goto 3Pd072 Synthesis of Sequential Poly(1,3-phenyleneethynylene)-Based Foldamers Bearing Phenylnitronylnitroxides and a (p-Ethynylphenyl)nitronylnitroxide and Their Formation of Folded Helical Conformation Yoshiki Nagai,Issei Oida,Masahiro Teraguchi,Toshiki Aoki,Takashi Kaneko 3Pc073 Development and assessment of quinoidal index for designing of low band gap polymers Yoshihiro Hayashi,Susumu Kawauchi 3Pd074 Fabrication and characterization of uniaxially stretch-oriented semiconducting polymer films Masahi Nitani,Kazuki Maeda,Masaki Nishimura,Mayumi Uno,Yoshiaki Sakurai 3Pc075 Highly Conductive Microfibers Fabricated by Wet-Spinning Ayana Tomioka,Kazuki Kudo,Kazumasa Marumo,Hirokazu Yano,Hidenori Okuzaki 3Pd076 Dispersion states and electrical properties of conductive polymer nanofibers embedded in polymer blend matrix Takanori GOTO, Jun MORITA, Sinji KANEHASHI, Takeshi SHIMOMURA Photopatterning of films of PEDOT derivatives containing a photoacid generator and acid 3Pc077 amplifiers by the dry process Eishiro Hiraga, Masahiro Furutani, Koji Arimitsu 3Pd078 Dependence of Applied Voltage on Photoconductive Properties of Polyimides Containing a Diphenvl-benzidine Structure Chiaki Takemasa, Shigeo Asai, Ryohei Ishige, Shinji Ando 3Pc079 Development and evaluation of organic EMF type hydrogen sensor using intrinsically conducting polymers Hirofumi MIYAKE, Takahiro MURAKAMI, Syuuji HARADA, Tetsu MITSUMATA, Norio TSUBOKAWA, Takeshi YAMAUCHI 3Pd080 A Polymeric n-Type Dopant Based on 1,3-Dimethyl-2-phenyl-2,3-dihydro-1Hbenzoimidazole for Thermoelectric Applications KuanHeng Tu, Yang Wang, Tsuyoshi Michinobu 3Pc081 Introduction of polar group into P (EO / PO) having allyl group in side chain, preparation of solid electrolyte for lithium ion secondary battery, and evaluation of influence on performance by polar group Yuki Hayas<u>hi,</u>Hirotaka Awata,Keiji Yamashita 3Pd082 Apparent phase diagrams of organo-lead halide perovskite for singlecrystallization tenyu date, satosi watanabe, masasi kunitake

3Pd084	Release control of chloride ion through silica shell and surface modification of silica capsules derived from perhydropolysilazane Kaoru Kuramochi, <u>Hana Kiyosawa</u> ,Reiko Saito
3Pc085	Self-organization of hydrophilic-hydrophobic -conjugated diblock copolymers (I) - Aggregated structures in water - <u>Hazuki Sasaki,</u> Hinako Inoue,Masahiro Fujita,Yuko Takeoka,Masahiro Rikukawa
3Pd086	Dendritic polyglycerols as a novel host molecule for supramolecular chemistry <u>Moe Yamazaki</u> ,Yousuke Sugimoto,Tooru Ooya
3Pc087	Hierarchically Structured Porous Palladium Electrocatalysts <u>Satoshi Teraji</u> ,Hideyuki Nakanishi,Tomohisa Norisuye,Qui Tran-Cong-Miyata
3Pd088	Thermal conductivity measurement of P3HT nanofiber form by freeze-dry processing <u>Moegi YOKOO</u> ,Naoki OKADA,Shinji KANEHASHI,Takeshi SHIMOMURA
3Pc089	PPS nanofiber sheet prepared by carbon dioxide laser supersonic multi-drawing <u>Satoi Tsutsui,</u> Akihiro Suzuki
3Pd090	Nanofiber prepared by improved carbon dioxide laser supersonic drawing apparatus <u>Yuta Kobayashi</u> ,Akihiro Suzuki
3Pc091	Twisted PPS nanofiber yarn prepared by carbon dioxide laser supersonic drawing equipped with a twister-winder <u>Takumi Fukasawa</u> ,Akihiro Suzuki
3Pd092	Preparation of PVA hydrogel nanofiber by electrospinning <u>Mikiya Kato</u> ,Toshiya Hibino,Shin-ichiro Suye,Satoshi Fujita
3Pc093	Direct Electrospinning of the Cucurbit[n]uril Family <u>Hiroaki Yoshida</u> ,Koki Miyazawa
3Pd094	Comparison of physical properties for silicone modified polyurethane nanofibers with different molecular structures <u>Chuan Yin</u> ,Rino Okamoto,Mikihisa Kondo,Toshihisa Tanaka,Hatsuhiko Hattori,Masaki Tanaka,Hiromasa Sato,Shouta Iino
3Pc095	Preparation of nanocellulose coated with polymer crystal and application to composite film Risa Yanai,Yuki Goga <u>,Tetsuya Uchida</u>
3Pd096	Preparation and properties of nanoconposites composed of water-soluble nylon/chitin nanofiber/bio-based epoxy crosslinking reagent <u>Ryogo Kobayashi</u> ,Toshiaki Simasaki,Naozumi Teramoto,Mistuhiro Shibata
3Pc097	Hydrophobic group-modified polyrotaxanes acquire water solubility via self-assembly. <u>Asato Tonegawa</u> ,Atsushi Tamura,Nobuhiko Yui
3Pd098	Synthesis of Ferrocene-attached Polyethyleneimine and Fabrication of Layer-by-Layer Films <u>Akito WATANABE</u> ,Shunsuke YAMAMOTO,Masaya MITSUISHI
3Pc099	Fabrication of polylactide stereocomplex using microscopic coating applicator <u>Akifumi Kubota</u> ,Takami Akagi,Mitsuru Akashi
3Pd100	Preparation of spherical black nanoparticles by microwave polymerization <u>Nanami Hano</u> ,Makoto Takafuji,Hirotaka Ihara
3Pc101	Preparation and Characterization of Poly(vinylidene fluoride) Nanoparticles <u>Chang Fu</u> ,Huie Zhu,Shunsuke Yamamoto,Masaya Mitsuishi
3Pd102	Production of molten polymer particles by polymeric encapsulation over oil nanodroplets in the miniemulsion system <u>Toshiro Imanishi</u> ,Yuuka Fukui,Keiji Fujimoto
3Pc103	Assembling of metal complexes with supramolecular chiral nano-fibrils as a templates and enhancement of their functionalities Yuki Fujimoto, <u>Yutaka Kuwahara,</u> Tatsumi Iwamoto,Makoto Takafuji,Hirotaka Ihara
3Pd104	Applying thermo-"irreversibility" to supramolecular gel by introducing a dynamic covalent bond

Yudai Tominaga, Shota Yamamoto, Yuki Nishida, Tatsuo Maruyama

- 3Pc105 Preparation of supramolecular crosslinking materials with cyclodextrin monomer by bulk polymerization and the evaluation of the mechanical properties <u>Ryohei Ikura</u>,Suguru Nomimura,yoshinori Takashima,Akira Harada,Hiroyasu Yamaguchi
- 3Pd106 Analysis of structure and color in carotenoids nanoparticles <u>Ryuju Suzuki</u>,Satoshi Okada,Shigeru Deguchi

### **E. POLYMERS AND ENVIRONMENT**

- 3Pd108 Prepatration of Chitosan-alginate coated fiber by LBL method <u>Daiki Komoto</u>,Ryoka Ikeda,Tetsuya Furuike,Hiroshi Tamura
- 3Pc109 Synthesi and characterization of alginic acid acyl derivatives as plastic material. <u>Yusuke Matsumoto</u>,Daisuke Ishii,Yukiko Enomoto,Tadahisa Iwata
- 3Pd110 The production of alpha-1,3-glucan and its derivatives <u>Sakarin Puanglek</u>,Satoshi Kimura,Tadahisa Iwata
- 3Pc111 Highly soft and flexible hydrogel from polysaccharide and its properties <u>Yukiko Enomoto</u>,Tadahisa Iwata
- 3Pd112 Development of biopolymer-based organogels and their potential in material application <u>Yuichi Hakumai</u>,Makoto Ashiuchi
- 3Pc113 Improvement of Mechanical Properties of Polypropylene by Hydrophobically Modified Cellulose Toshiki Honda,Nakano Akiko,Taka-Aki Asoh,Hiroshi Uyama
- 3Pd114 Preparation of functional composites based on non-denatured lignin and poly(ethylene carbonate)
   <u>Yudai FUNATSU</u>,Haruka SOTOME,Kazuhiro SHIKINAKA,Yuichiro OTSUKA,Masaya NAKAMURA,Masatoshi TOKITA,Yoichi TOMINAGA
- 3Pc115 Fabrication and Insolubilization of Chemical Modified Wool Keratin Nanofibers <u>Toshihisa Tanaka</u>, Takuma Suwa, Taro Shinoi
- 3Pd116 Preparation of bioplastic using soy protein Sakura Morimitsu,Tetsuya Yamada,<u>Masanori Yamada</u>
- 3Pc117 Development of hydrothermal treated wood flour /polybutylene succinate composite <u>Kensuke Miyazaki</u>,Masayuki Gomibuchi,Toshifumi Yamada,Takashi Yoshida
- 3Pd118 Influence of structures in lignin derivatives on photo-relaxation processes <u>Sara Inoue</u>,Tomoyuki Yoshino,Mitsuru Aoyagi
- 3Pc119 Influences of condensed structures of native lignin derivatives on photo-excited electron transfer under monochromatic light irradiation <u>Masaki Yamamoto</u>,Toshihito Ohtake,Mitsuru Aoyagi
- 3Pd120 Influence of pH on viscosity of alkaline dispersions of native lignin derivatives <u>Shiho Azuma</u>,Mitsuru Aoyagi
- 3Pc121 Functionalization of Lignins in Lignocellulosic Composites by Selective Chemical Modifications Nobuhiro Watanabe, Takuya Matsumoto, Yoshiharu Mitoma, Mitsuru Aoyagi
- 3Pd122 Preparation of network-typed hydrophilic macromolecular materials from wild herbaceous plants Yuki Okusako,Mitsuru Aoyagi
- 3Pc123 Synthesis and purification of organic semiconducting oligo-thiophenes using supercritical carbon dioxide Ryuji Hirase,Koji Honda,Mari Ishihara,Hideki Yoshioka,Hirosato Monobe
- 3Pd124 Screening of New RoHS Directive Targets (Phthalate Esters) in the Electronical Device <u>Shin Okawa</u>, Takeguchi Yuko, Masataka Ohgaki