

## Room P

### Poster Presentation

Date		Booth No.	Booth No.									
			001	002	003	004	005	.....	115	116		
20 Wed.	1P	a b	9:50~10:00	Mounting Time								
			10:00~10:20	Display Time								
			10:20~11:00	Presentation Time		Presentation Time		Presentation Time		Presentation Time		Presentation Time
			11:00~11:40	Presentation Time	Presentation Time	Presentation Time	Presentation Time	Presentation Time	Presentation Time	Presentation Time	Presentation Time	Presentation Time
			11:40~11:50	Removing Time								
21 Thu.	2P	c d	12:50~13:00	Mounting Time								
			13:00~13:20	Display Time								
			13:20~14:00	Presentation Time		Presentation Time		Presentation Time		Presentation Time		Presentation Time
			14:00~14:40	Presentation Time	Presentation Time	Presentation Time	Presentation Time	Presentation Time	Presentation Time	Presentation Time	Presentation Time	Presentation Time
			14:40~14:50	Removing Time								
22 Fri.	3P	e f	14:50~15:00	Mounting Time								
			15:00~15:20	Display Time								
			15:20~16:00	Presentation Time		Presentation Time		Presentation Time		Presentation Time		Presentation Time
			16:00~16:40	Presentation Time	Presentation Time	Presentation Time	Presentation Time	Presentation Time	Presentation Time	Presentation Time	Presentation Time	Presentation Time
			16:40~16:50	Removing Time								

	Presentation Time		Mounting Time
	Display Time		Removing Time

1st Gymnasium

**Wed. Sep 20**

Presentation Time

<a = 10:20~11:00>

<b = 11:00~11:40>

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

- 1Pa001 Living Anionic Polymerization of 4-Trialkylstannylstyrene  
Naoto Takagi, Tomoya Higashihara
- 1Pb002 Anionic addition reaction of 1,1-diphenylethylene derivative having acyl groups  
Kazuki Takahata, Naoki Aizawa, Taichi Kamijo, Satoshi Uchida, Raita Goseki, Takashi Ishizone
- 1Pa003 Anionic polymerization of divinylbenzene derivatives possessing  $\beta$ -alkyl group  
Yota Nakagawa, Daigo Matsuoka, Raita Goseki, Satoshi Uchida, Takashi Ishizone
- 1Pb004 Initiation mechanism of cationic ring-opening polymerization of 1,3-dehydroadamantanes  
Koudai Michizoe, Reo Kurashima, Satoshi Uchida, Raita Goseki, Takashi Ishizone
- 1Pa005 Synthesis and properties of poly (vinyl ethers) with a sulfide group  
yuhei watanabe, Takeshi Namikoshi, Shinji Watanabe
- 1Pb006 Synthesis and properties of poly(vinyl ether) with a menthyl group  
Ka Son, Takeshi Namikoshi, Shinji Watanabe
- 1Pa007 Cationic polymerization of isobutyl vinyl ether in the presence of Li salts and Lewis base – Insight into the polymerization mechanism –  
Ryotaro Kizu, Junpei Hashimoto, Nenji Munekane, Tomohiro Hirano, Miyuki Oshimura, Koichi Ute
- 1Pb008 Isotactic-specific living cationic polymerization of *N*-vinylcarbazole: stereoregulation through design of counteranions  
Hironobu Watanabe, Arihiro Kanazawa, Shinichi Sakurai, Sadahito Aoshima
- 1Pa009 Controlled Cationic Polymerization of Trimethylsilyl Vinyl Ether: Toward Precise Synthesis of Functional Poly(Vinyl Alcohol)

Ryusei Kato,Arihiro Kanazawa,Sadahito Aoshima

- 1Pb010 Design of initiating systems for controlled cationic copolymerization system of o-phthalaldehyde and vinyl ether  
Keisuke Hayashi,Arihiro Kanazawa,Sadahito Aoshima
- 1Pa011 Additive effects of alkali metal salt on cationic ring opening polymerization of oxetane derivatives  
Ryutaro Isobe,Ryansu Sai,Kazuhide Ueno,Hirromori Tsutsumi
- 1Pb012 Possibility of Controlled Cationic Polymerization with Alkoxyamine Activated by Photoredox Catalyst  
Masato KONYA,Mineto UCHIYAMA,Kotaro SATOH,Masami KAMIGAITO
- 1Pa013 Pinpoint Functionalization of Semi-crystalline Polymer via Iterative Monomer Addition in Living Cationic Polymerization  
Sho Yoshida,Makoto Ouchi,Mitsuo Sawamoto
- 1Pb014 Long-Lived Species-Mediated Concurrent Cationic Vinyl-Addition and Ring-Opening Copolymerization of Vinyl Ethers and Oxiranes: Toward Controlled Cationic Copolymerization Based on Reactivity Difference of Growing Species  
Daisuke Hotta,Arihiro Kanazawa,Sadahito Aoshima
- 1Pa015 Controlled Cationic Copolymerization of Vinyl Monomers and Cyclic Acetals with a Variety of Ring Numbers and Substituents via Concurrent Vinyl-Addition and Ring-Opening Mechanisms  
Kazuya Maruyama,Arihiro Kanazawa,Sadahito Aoshima
- 1Pb016 Control of Monomer Sequence in Concurrent Cationic Vinyl-Addition, Ring-Opening, and Carbonyl-Addition Terpolymerization: Toward ABC-Type Alternating Sequence  
Maki Mimura,Arihiro Kanazawa,Sadahito Aoshima
- 1Pa017 Concurrent Cationic Vinyl-Addition, Ring-Opening, and Carbonyl-Addition Terpolymerization Using Various Cyclic Ethers  
Arihiro Kanazawa,Sadahito Aoshima
- 1Pb018 Controlled Synthesis of Polysaccharides in Coordination Nanochannels  
Kayako Honjo,Yuichiro Kobayashi,Susumu Kitagawa,Takashi Uemura
- 1Pa019 Thermal Ring-Opening Polymerization of a Silicon-bridged [1]Ferrocenophane in Coordination Nanochannels  
Kayako Honjo,Yuichiro Kobayashi,Susumu Kitagawa,Takashi Uemura
- 1Pb020 Cyclic Polymer Synthesis by Anionic Polymerization of (E,E)-Alkyl Sorbate Assisted by N-Heterocyclic Carbene  
Yuhei Hosoi,Akinori Takasu,Shin-ichi Matsuoka
- 1Pa021 Development of novel chiral guanidine catalysts for stereospecific ring-opening polymerization of rac-LA  
Kohei Toda,Miyuki Oshimura,Tomohiro Hirano,Koichi Ute
- 1Pb022 Thiourea organocatalyst having simple structure for stereospecific ring-opening polymerization of rac-LA  
Yuki Terai,Miyuki Oshimura,Tomohiro Hirano,Koichi Ute
- 1Pa023 Stereoselective polymerization of lactide by N-heterocyclic carbene/Lewis acid catalyst  
Keiji Naruse,Daiki Mokude,Akinori Takasu,Mikihiro Hayashi
- 1Pb024 Observation of radiation graft brush nanostructure formed on polystyrene film  
Natsuki Hayashi,Jinhua Chen,Takashi Hamada,Masaaki Omichi,Noriaki Seko

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

- 1Pb026 Interfacial effects on the crystallization of poly(L-lactic acid) studied by using AC nano-calorimetry  
Keita Kamiya,Syugo Katano,Takashi Sasaki
- 1Pa027 Perpendicular orientation of dispersed rubber in an oriented polypropylene sheet  
Panitha Enta,Yoshiaki Funahashi,Shohei Iwasaki,Masayuki Yamaguchi
- 1Pb028 Density profile and dynamics of early stage of polymer crystallization  
Hiroshi Yokota,Toshihiro Kawakatsu
- 1Pa029 Crystallization of Polyamides Composed of Furandicarboxylic Acid  
Yuji Shinozuka,Hironori Marubayashi,Shuichi Nojima

- 1Pb030 Crystallization of substituted poly(lactic acid)s having alkyl side chains  
Ryo Mizukami, Hironori Marubayashi, Shuichi Nojima
- 1Pa031 Change in Crystal Orientation of Crystalline Blocks Confined in Nanolamella by Releasing Chain-ends Tethering  
Hiroaki Kikuchi, Hironori Marubayashi, Takashi Ishizone, Shuichi Nojima, Kazuo Yamaguchi, Seiichi Nakahama
- 1Pb032 Orientational changes of guest molecules clathrated in syndiotactic polystyrene crystalline phase accompanied with the exchanging process of guest molecules  
Hirohide Ebihara, Tisato Maida, Takumi Sano, Hideyuki Itagaki
- 1Pa033 Modified Vonk's method to determine crystallinity and distortion using X-ray diffraction data of polymer solids  
Shota Sano, Toshihiko Okabe, Takumi Sano, Hideyuki Itagaki, chie Sawatari, Md. Forhad Mina, Tsutomu Asano
- 1Pb034 Monofunctionalized heptaisobutyl-substituted POSS solid solutions exhibiting orientationally disordered phase transition  
Satoshi Morimoto, Hiroaki Imoto, Kensuke Naka
- 1Pa035 Crystal Structures of Alkyl-Side-Chain Polymers and its Temperature Dependence  
Fumiya Mori, Atsunori Morigaki, Shin-ichiro Kabashima, Kenichi Iimura
- 1Pb036 Dynamics in the crystalline region of atactic hydrogenated poly(norbornene)  
Yuki Nakama, Shigetaka Hayano, Hiromichi Kurosu, Yuta Makita, Toshikazu Miyoshi
- 1Pa037 Structural Change of rolled Poly(ethylene terephthalate) film during annealing  
Kazuyuki Okada, Masaru Nakada, Yoshitomo Furushima, Kenta Takahashi, Takuji Higashioji, KyoungHou Kim, Yutaka Ohkoshi, Toshiji Kanaya
- 1Pb038 Melt Memory Effect on Crystalline Polymers  
Akifumi Nabe, Masato Hashimoto, Susumu Fujiwara, Tomoko Mizuguchi
- 1Pb040 Molecular mobility of syndiotactic polystyrene films with crystals studied by NMR method  
Mika Ito, Hiroaki Yoshimizu
- 1Pa041 Crystal growth of isotactic polypropylene in ultrathin films II  
Youhei Noda, Akihiko Toda, Ken Taguchi
- 1Pb042 Synthesis and spherulitic growth rate of a crystalline block copolymer  
Yuki Ishisaki, Toshiyuki Kataoka, Takayuki Ikehara
- 1Pa043 Spherulite formations of stereocomplex and homo-crystallite in poly(L-lactic acid)/poly(D-lactic acid) blends  
Toshiyuki Kataoka, Yuhsuke Morino, Masahiro Kishino, Takayuki Ikehara
- 1Pb044 Crystallization Behavior of Fibers of Low Stereo-regularity Polypropylene and High and Low Stereo-regularity Polypropylene Blend  
Kouya Kawai, Wataru Takarada, Takeshi Kikutani
- 1Pa045 Crystallization and Orientation at the surface and inside regions for injection-molded poly (butylene terephthalate) plate  
Masanori Haga, Takahiko Nakaoki, Hideaki Ishihara, Katsuhisa Yamashita, Kennichi Funaki
- 1Pb046 Investigation of Molecular Structure and Crystallization behavior of transesterified Poly(ethylene terephthalate)/Poly(butylene terephthalate) blend Film with short regular chain length  
Masaya Yano, Takahiko Nakaoki, Hideaki Ishihara, Katsuya Itou
- 1Pa047 Molecular structure of ultra high molecular weight polyethylene fiber annealed at orthorhombic/ hexagonal transition temperature  
Koichiro Nishida, Takahiko Nakaoki, Hideaki Ishihara
- 1Pb048 Effect of film molding conditions on extended-chain crystallization during melt-drawing for metallocene-catalyzed ultra-high molecular weight polyethylene.  
Yui Shimizu, Masahiko Ueno, Hiroki Uehara, Takeshi Yamanobe, Takuya Ohnishi, Yasutake Wakabayashi, Kei Inatomi, Shigehiko Abe, Hiroyasu Masunaga
- 1Pa049 In-Process Measurements of Phase Development during Drawing for Poly(oxy-methylene) Copolymer Films  
Daiki Nara, Hideyuki Yamashita, Hiroki Uehara, Takeshi Yamanobe, Tsuyoshi Ikeda, Satoshi Nagai

- 1Pb050 Structure and properties of porous ionic liquid gels induced by crystallization and phase separation  
Yuichi Minematsu, Noboru Osaka
- 1Pa051 Non-freezable Water in Cellulose/Poly(vinyl alcohol) blend Film.  
Akitomo Tanaka, Takahiko Nakaoki
- 1Pb052 Improvement of crystallinity of poly(vinyl alcohol) film for soaking in water and elongation  
Kanta Kokaji, Takahiko Nakaoki
- 1Pa053 Distribution of lamella thickness and crystallinity for ethylene/vinyl alcohol copolymer annealed at different temperature.  
Shusuke Nishida, Nakaoki Takahiko
- 1Pb054 Molecular structure of syndiotactic polystyrene gel using mixed solvent and aggregate structure of solvent  
Yusuke Okuda, Takahiko Nakaoki
- 1Pa055 Crystallization and melting of nylon-9,2 and nylon-MOMD,2  
Gaku Kohnno, Koji Nozaki, Akihiko Toda, Tomoyuki Nakagawa
- 1Pb056 Thermodynamic Stability and Mechanical Properties of Polyoxymethylene Polymorphs, Elucidated by Density Functional Theory under Periodic Boundary Conditions  
Yuichiro Fukuda, Taiga Kurita, Yuji Sasanuma

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

- 1Pa059 Anisotropy control of structure and thermal conductivity of poly(3-hexylthiophene)  
Eisuke Komaki, Takuya Matsumotohino, Chizuru Hongo, Takashi Nishino
- 1Pb060 Synthesis and Properties of Phenolic Polymers with Coordination Bonding Sites  
Taisuke TAKAKURA, Tada-aki YAMAGISHI, Tomoki OGOSHI, Takahiro KAKUTA
- 1Pa061 Formation of Hierarchical structures in the cross-linked sub-5 $\mu$ m particles  
Yusuke ichinokido, Daiki Souma, Katsuya Kaikake, Ren-Hua Jin
- 1Pb062 Anti-discoloration at high temperature of colorless polyalicyclic polyimides by end-capping  
Tomohiro Mizuta, Hiroki Ozawa, Toshihiko Matsumoto
- 1Pa063 Anti-discoloration at high temperature of colorless polyalicyclic polyimides by phosphite additives  
Toshihiko Matsumoto, Tomohiro Mizuta, Hiroaki Ushioda
- 1Pb064 In-plane Orientation in Colorless Polyimides as Induced by Solution Casting of Polyimide Solutions (22). Novel Spiro-type Polyimides.  
Shinya TAKAHASHI, Soichi TSUKUDA, Junichi ISHII, Masatoshi HASEGAWA
- 1Pa065 Polybenzoxazoles with Low Coefficient of Thermal Expansion (2). Effect of Amide-containing Bis(o-aminophenol)  
ryosuke watanabe, junichi ishii, masatoshi hasegawa
- 1Pb066 Solution-processable Colorless Polyimides Derived from Hydrogenated Pyromellitic Dianhydride (H-PMDA) (3). Strategy for Improving Film Toughness and Low Thermal Expansion Property.  
Katsuki ICHIKAWA, Junichi ISHII, Masatoshi HASEGAWA
- 1Pa067 Low-modulus Polyimides (10). Improvement of Adhesion Strength with Copper Foil  
Kota SUZUKI, Mayumi SAEKI, Junichi ISHII, Masatoshi HASEGAWA
- 1Pb068 Solution-processable Transparent Polyimides. Solubility in Aqueous Solutions  
Yuri NAGASAWA, Junichi ISHII, Masatoshi HASEGAWA
- 1Pa069 Mechanical analysis of bending polyethylene naphthalate film toward flexible devices  
Ryo Taguchi, Norihisa Akamatsu, Shigenori Fujikawa, Atsushi Shishido
- 1Pb070 Synthesis and properties of main chain typed difunctional fluorinated caged octasilsesquioxane  
Lina Li, Hiroaki Yimoto, Kensuke Naka
- 1Pa073 Step- $\pi$ -conjugated polymers (15) Performance evaluation of macromolecular wire forming microscopically heterogeneous environment.  
Katsuya Takagi, Haoxuan GUO, Hiroyuki Aota
- 1Pb074 Step- $\pi$ -conjugated polymers (16) Synthesis and physical properties of A, B-block type amphiphilic macromolecular wire

Keisuke Yoshida, Kohei Watanabe, Haoxuan GUO, Hiroyuki Aota

- 1Pa075 Step- $\pi$ -conjugated polymers (17) Synthesis and optical properties of amphiphilic macromolecular wire having different energy levels  
Chihiro Fujiwara, Haoxuan GUO, Hiroyuki Aota
- 1Pb076 step- $\pi$ -conjugated polymers (18) Synthesis and evaluation of amphiphilic A, B-block type macromolecular wire using trihydroxybenzene.  
Sora Hirata, Haoxuan Guo, Hiroyuki Aota
- 1Pa077 Step- $\pi$ -conjugated polymers (19) Synthesis and optical properties of amphiphilic macromolecular wire with a donor and acceptor at terminal.  
Hiroyuki Mitani, Haoxuan GUO, Hiroyuki Aota
- 1Pb078 Step- $\pi$ -conjugated polymer (20) Interaction of narrow band gap oligomer and platinum colloid.  
Yuki Iwakura, Haoxuan GUO, Hiroyuki Aota
- 1Pa079 Step- $\pi$ -conjugated polymers (21) Synthesis of macromolecular wire having microscopically different polarity and interaction of its wire with platinum colloid.  
Kaho Matsumura, Haoxuan GUO, Hiroyuki Aota
- 1Pb080 Syntheses of step- $\pi$ -conjugated polymers(22) Synthesis of high-density charge storage polymer with the aim of fast electron transfer and photochemical behavior.  
Kota Maruyama, Haoxuan GUO, Hiroyuki Aota
- 1Pa081 Step- $\pi$ -conjugated polymers (23) Synthesis of polymer with photosensitizer for multi-step electron transfer  
Takayuki Kasugai, Haoxuan GUO, Hiroyuki Aota
- 1Pb082 Syntheses and properties of narrow-bandgap polymers(14) Development and evaluation of electronic materials using post-crosslinking reaction.  
Takehiro Ohashi, Haoxuan GUO, Hiroyuki Aota
- 1Pa083 Syntheses and properties of narrow-bandgap polymers (15) Synthesis and evaluation of a novel narrow bandgap polymer for application to organic thin film solar cell  
Taisuke Karasuda, Haoxuan GUO, Hiroyuki Aota
- 1Pb084 Synthesis and fluorescence properties of polydiphenylacetylene having linear or branched alkyl groups without silylene spacers  
Yuto Kawamura, Masahiro Teraguchi, Toshiki Aoki, Takashi Kaneko, Giseop Kwak, Young-jae Jin
- 1Pa085 Photocharacterization of trigonal azobenzene derivative with Aggregation-Induced Emission Enhancement characteristics  
Ikue Abe, Mina Han, Kazunori Matsuura
- 1Pb086 Synthesis of graft polymer containing poly(N - isopropyl acrylamide) and their refractive-index change properties  
Seichi Ominami, Hiroto Kudo
- 1Pa087 Single-molecule fluorescence spectroscopy of poly(p-phenylene ethynylene) derivative doped in polymer thin films  
Shunsuke Miwa, Shinjiro Machida, Noriaki Ikeda, Moe Inui
- 1Pb088 Fluorescence behavior of single molecule and single nanoparticles consisting of polyfluorene derivatives  
Shuhei Koyama, Shinjiro Machida, Noriaki Ikeda
- 1Pa089 Photoreaction and surface relief formation of bisanthracene compounds in polymer thin films  
Kota Marumoto, Taishi Sonoda, Takashi Ubukata
- 1Pb090 Synthesis and Evaluation of Stimuli-responsive Optical Properties of Boron-containing Luminescent Polymers  
Kyoya Uemura, Kazumasa Suenaga, Kazuo Tanaka, Yoshiki Chujo
- 1Pa091 Synthesis and characterization of chiral polyphenylenes toward higher-order nanostructure  
Karin Fujita, Kazuhiro Nakabayashi, Hideharu Mori
- 1Pb092 Synthesis of silicon-containing photo-curable organic materials with high O<sub>2</sub> RIE resistance and their application to reverse-tone imprint process.  
Ayaka Sakai, Kazuhiko Machida, Shunya Ito, Mari Kumagai, Masaru Nakagawa, Nobukatsu Nemoto
- 1Pa095 Photoplasticization effect of azobenzene-doped liquid crystals for various polymers

- Mioka Koike,Takao Aoyagi,Takahiro Yamamoto,Hideyuki Kihara
- 1Pb096 Transparent hybrids of biopolyimides coated with ITO nanolayers  
Narubol Charoencheep,Sumant Dwivedi,Tatsuo Kaneko
- 1Pa097 Fabrication of Porous Films based on Liquid-Crystalline Star Polymers with Sulfonyl Groups  
yutaka tomaru,yumkmo naka,takeo sasaki
- 1Pb098 The polymerization of the side chain crystalline tri block copolymer and the study of hydration of the polyethylene(PE) surface.  
Koki Fukaya,Hiroshi Sekiguchi,Ryoko Nakano,Shigeru Yao
- 1Pa099 Formation of Porous Films Based on Comb Polymers with Cyanobiphenyl Moieties  
Shuhei Hagino,Yumiko Naka,Takeo Sasaki
- 1Pb100 Evaluation of recrystallization inhibiting on peptide-modified glass surface  
Yoshiaki Hirano,Syoki Nagatomo,Kaya Ichikawa,Sachiro Kakinoki,Hidehisa Kawahara
- 1Pa101 Characterization of a Photodegradable Self-assembled Monolayer Formed from a 2-Nitrobenzyl Ester-bearing Phosphonic Acid Derivative  
Kana Imamura,Takuma Igari,Kazuki Sakakibara,Kazuo Yamaguchi
- 1Pb102 Polyolefin sulfone type dismantling adhesive containing isocyanate crosslinking agent  
Ayane Koizumi,Takeo Sasaki,Khoa Le
- 1Pa103 Investigation of Cooling Paints Based on P-NIPAAm and Methyl Methacrylate  
Toshiaki Oku,Hisashi Honda
- 1Pb104 Unique Wettability of Humidity-Sensitive Polysiloxane Ultrathin film  
Yuuma Ueno,Mitsuo Hara,Shusaku Nagano,Takahiro Seki
- 1Pa105 Modification of chemically stable polymeric materials 95. Production of strong FRPs using modified fibers with high adhesion property  
Hitoshi Kanazawa,Aya Inada
- 1Pb106 Photografting of a cationic monomer onto expanded PTFE film and kinetic analysis of adsorption of Cr(VI) ions  
Hidenobu Kiyokawa,Yuji Kimura,Kazunori Yamada
- 1Pa107 Preparation of biocompatible sheet for medical use  
Hirokazu Hayashi,Yayoi Yoshioka,Takeshi Suyama,Takashi Nishimura,Ayako Hioki,Masaki Kimoto,Toru Uemukai,Yasumichi Kogai
- 1Pb108 Molecular coating on copper surface with thiol-terminated polystyrene of different molecular weights and their oxidation resistance and electrical conductivity  
Thanh NGUYEN HAI,Takuya IKEDA,Kaoru ADACHI,Yasuhisa TSUKAHARA
- 1Pa109 Theoretical Study on the Role of Hydrogen Bond in the Adhesion between Glass Surface and Epoxy Resin  
Chisa Higuchi,Hiromasa Tanaka,Kazunari Yoshizawa
- 1Pb110 Surface Properties of the Rubber Material Fabricated Nano-structure by Nanoimprint Lithography  
Koji Honda
- 1Pa111 Evaluation of liquid transport ability by the difference of blade structures of Ligia exotica imitation surface  
Tsubasa Kashima,Koki Kawai,Daisuke Ishii
- 1Pb112 Evaluation of adsorption and desorption of Cr(VI) ions by dimethylamino group-containing grafted polymer chains  
Riki Kuramochi,Yuji Kimura,Hiromichi Asamoto,Kazunori Yamada,Hiroaki Minamisawa
- 1Pa113 Adhesion between grafted polyethylene plates by chitosan solutions modified through enzymatic reaction in the presence of different substrates  
Yuki Morikawa,Yuji Kimura,Kazunori Yamada
- 1Pb114 Design of hybrid surface with mediation of amphiphilic tooth-brush like polymers  
Moemi Takita,Wenli Wang,Katsuya Kaikake,Ren-hua Jin
- 1Pa115 Structural color painting by electrophoresis of non-ionic polymer particles and characterization  
Daiki Mokude,Akinori Takasu,Masahiro Higuchi
- 1Pb116 Development of Acrylic PSAs Bearing Mesogenic Groups  
Ryu Nakanishi,Satoshi Yamaguchi,Minoru Nanchi,Shinichiro Kawahara,Hiroto Murakami

- 1Pa117 SCCBC's functional units length dependence to polyethylene surface hydrophilic modification ability.  
Yuga Miho, Hiroshi Sekiguchi, Ryoko Nakano, Shigeru Yao
- 1Pb118 Preparation of copolymers having polysulfide bonds and their application to copper corrosion inhibitor  
Yunfei Luo, Kazuhide Ueno, Hiromori Tsutsumi
- 1Pa119 Comparison of polyethylene surface modification and plating effect of side-chain crystalline block copolymer structure  
Tomonori Uchino, Ryoko Nakano, Hiroshi Sekiguchi, Shigeru Yao
- 1Pb120 Influence of molecular weight on oxidation property of thiol terminated polymer modified copper surface  
JaeYoung Jeon, Kosuke Yamakawa, Thanh Nguyen Hai, Kaoru Adachi, Yasuhisa Tsukahara

Presentation Time

<c = 13:20~14:00>

<d = 14:00~14:40>

### A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

- 1Pc001 Formation of Polyurethane Film Containing Silicone Polymer with Silanol Residue  
Shigeki Habaue, Yuto Takahashi, Hiroaki Suzuki, Yuki Takamushi
- 1Pd002 Synthesis of Interpenetrating Polymer Networks Gel Using Silicone Polymer with Silanol Residue  
Junta Sano, Shigeki Habaue
- 1Pc003 Polymerization reaction by radical cation in polyaniline main chain  
Kohei Yamabe, Hiromasa Goto
- 1Pd004 Preparation of poly(N-vinylamide) derivatives gels by polymer reaction using cross-linkers of adipoyl chloride and adipic acid  
Ryo KAWATANI, Hiroharu AJIRO
- 1Pc005 Synthesis of Polymers having Zwitterion Structure in Side Chains based on the Reaction of the Cyclic Amidine Derivatives and Isothiocyanate  
Akira Yamauchi, Takeshi Endo
- 1Pd006 Kinetic analysis of coupling reaction on RAFT polymerization  
Yusuke Kaneko, Reiko Saito
- 1Pc007 Monomer sequence distribution in the copolymers derived from isotactic poly(methacrylic acid) by stepwise esterification: Partial neutralization by bifunctional guanidine  
Minari Shiren, Momoko Tanaka, Yukihiko Arakawa, Yasushi Imada, Koichi Ute
- 1Pd008 Site-Selective Transesterification as a Versatile Polymer Reaction into Functional Polymers  
Daiki Ito, Takaya Terashima, Mitsuo Sawamoto
- 1Pc009 Synthesis and Cross-linking Reaction of Ionic Liquids based on Polysiloxane with Cross-linkable Moiety  
Tsukasa Ichikawa, Yuya Katayose, Nobukatsu Nemoto
- 1Pd010 Investigations of reaction behavior and change in higher-order structure during dynamic exchange of polypeptide side-chain functional groups induced by thioester exchange reaction  
Yukina Kitahara, Kazutoshi Nakagawa, Yuichiro Tokoro, Toshiyuki Oyama
- 1Pc011 Control of thermal cyclization of polyacrylonitrile in coordination nanospaces toward functional carbon materials  
Takashi Kitao, Ryoto Hongu, Susumu Kitagawa, Takashi Uemura
- 1Pd012 Structural Reorganization of Polyurethanes with MMA Dimer Linkages Based on Chain Transfer Reactions  
Nao Tsurumi, Takhiro Kosuge, Raita Goseki, Daisuke Aoki, Hideyuki Otsuka
- 1Pc013 Synthesis of amphiphilic block copolymer bearing active ester in hydrophobic segment and its functionalization by post-polymerization modification  
Masaki Oomori, Makoto Obata
- 1Pd014 Cross-linking of a polycarbosilane having glucose-derived groups through urethane

- linkage and physical properties of the obtained polymers  
Tatsuya Miyano,Kozo Matsumoto,Takeshi Endo
- 1Pc015 Temperature Dependence of Photo and Thermal Degradation Reactions of Organic Coating Films for Building material and Accompanying Macro properties change.  
Takato Ishida,Ryoma Kitagaki
- 1Pd016 Multicolor-Mechanochromic Polymers Recognizing Types and Intensity of Mechanical Stimuli  
Kuniaki Ishizuki,Raita Goseki,Daisuke Aoki,Hideyuki Otsuka
- 1Pc017 Synthesis and Chromism of Mechano-responsive Polyurethanes Showing Color Change and Photoluminescence  
Marina Nukui,Raita Goseki,Daisuke Aoki,Hideyuki Otsuka
- 1Pd018 Mechanochromic Property of Side-Chain Liquid Crystal Polymer with Diarylbibenzofuranone in the Center of Polymer Chain  
Moeko Yanagisawa,Shigeki Furukawa,Raita Goseki,Daisuke Aoki,Hideyuki Otsuka
- 1Pc019 Development of Mechanophore for Photoregulation of Polymer's Mechanical Properties  
Jumpei Kida,Keiichi Imato,Raita Goseki,Daisuke Aoki,Masakazu Morimoto,Hideyuki Otsuka
- 1Pd020 Synthesis of mechano-responsive polymers with various tetraarylsuccinonitrile units and the effect of chemical structures on their mechano-responsive  
Hio Sakai,Tosikazu Sumi,Raita Goseki,Daisuke Aoki,Hideyuki Otsuka
- 1Pc021 Synthesis of Networked Polymers Based on Truxenone Derivatives and Their Photochemical Behaviors  
Kanji Suyama,Hideki Tachi
- 1Pd022 Investigation on dynamic exchange reaction of polypeptide side chains and the function induced by the exchange reaction  
Mayumi Inoue,Kazutoshi Nakagawa,Yuichiro Tokoro,Toshiyuki Oyama
- 1Pc023 Synthesis and networked polymers of polybenzimidazoles bearing ether and/or sulfone structure as a spacer and their application to electrolyte membrane of fuel cell  
Tatsuya Yuki,Masayuki Nishi,Naoto Aoyagi,Takeshi Endo
- 1Pd024 A new Class of Functional Polymers via Multicomponent Reactions with Lignin Derived Compounds  
Satoshi Yoshida,Ryohei Kakuchi,Shigeyoshi Kanoh,Katsuhiko Maeda
- 1Pc025 Post-functionalization of  $\pi$ -Conjugated Polymers Containing Heterols of Group 14 and 15 Elements via Reduction Process  
Kohei Hayashi,Hiroki Nishiyama,Shinsuke Inagi,Ikuyoshi Tomita
- 1Pd026 Preparation and Properties of Organic-Inorganic Hybrid Materials using Titanium Phosphonate Cluster  
Keisuke Wada,Kazuki Yamamoto,Takahiro Gunji
- 1Pc029 Polymerization of ethyl diazoacetate initiated with (quinone)Pd/borate initiating systems  
Shohei Ichihara,Hiroaki Shimomoto,Tomomichi Itoh,Eiji Ihara
- 1Pd030 Polymerization of alkyl diazoacetates initiated with  $\pi$ -allylPd complexes: Attempt to develop controlled and stereospecific polymerization systems  
Hirokazu Murakami,Moemi Nakajima,Hiroaki Shimomoto,Tomomichi Itoh,Eiji Ihara
- 1Pc031 Attempt to establish analytical methods for stereoregularity of poly(alkoxycarbonylmethylene)s  
Yoshitaka Yorimoto,Hiroaki Shimomoto,Tomomichi Itoh,Eiji Ihara,Takashi Okamura,Koichi Ute
- 1Pd032 Polymerization of various diazoacetates with chiral substituents and studies of chain conformation of the resulting polymers  
Junya Aoyama,Hiroaki Shimomoto,Tomomichi Itoh,Eiji Ihara
- 1Pc033 Synthesis of Optically Active Polymer Bearing Planar Phthalimide Backbone via Asymmetric Polymerization  
Marina Saegusa,Naoya Kanbayashi,Yuki Ishido,Taka-aki Okamura,Kiyotaka Onitsuka
- 1Pd034 Kumada-Tamao coupling polymerization behavior of *o*-bromophenylGrignard monomer  
Asuka KOJIMA,Shintarou NARUMI,Koichiro MIKAMI,Yoshihiro OHTA,Tsutomu YOKOZAWA
- 1Pc035 Intramolecular transfer of Pd catalyst on carbon-carbon triple bond and nitrogen-nitrogen double bond, and its application to unstoichiometric polycondensation  
Takeru KAMIGAWARA,hajime SUGITA,Yoshihiro OHTA,Tsutomu YOKOZAWA



- 1Pd036 Development of Dinuclear Cobalt-salen Complexes with a Rigid Linker and Their Application as Polymerization Catalysts  
Yo Hiranoi, Koji Nakano
- 1Pc037 Synthesis of Block Copolymers Containing an Aliphatic Polycarbonate Block  
Yuri Mizuno, Koji Nakano
- 1Pd038 Synthesis and Decomposition Property of Aliphatic Polycarbonates with Amino Groups in the Side Chain  
Kanata Akiyama, Koji Nakano
- 1Pc039 Investigation for an efficient polymerization system of the unsymmetrically substituted trimethylene carbonate  
Fumitomo Itatsu, Nobuyoshi Nomura
- 1Pd040 Substituent effects of Salen-type-Al catalyst in polymerization of methylglycolide  
Ryosuke Yanai, Nobuyoshi Nomura
- 1Pc041 Copolymerization of ethylene with styrene derivatives by double-decker type dinuclear palladium complex  
Takashi Iwasawa, Daisuke Takeuchi, Kohtaro Osakada
- 1Pd042 Isospecific styrene polymerization using [OSSO]-type bis(phenolato) zirconium complexes in the presence of p-divinylbenzene  
Kazuaki Nakamura, Norio Nakata, Akihiko Ishii
- 1Pc043 Ruthenium-complex-catalyzed Synthesis of Telechelic Oligobenzimidazoles and Their Reactivity and Chemical Properties  
Kohei Imoto, Isao Yamaguchi

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

- 1Pc047 Effect of different side chain on heat capacity of amorphous polymers  
Marika Yokota, Eri Nishiyama, Jun Fujimura, Itaru Tsukushi
- 1Pd048 Molecular weight dependence of cooperatively rearranging region (CRR) for amorphous polystyrene  
Eri Nishiyama, Marika Yokota, Haruka Makino, Jun Fujimura, Itaru Tsukushi
- 1Pc049 Temperature dependence of relaxation time of styrene oligomer at around glass transition temperature by dynamic light scattering  
Minato Sugisaki, Jun Fujimura, Itaru Tsukushi
- 1Pd050 Relaxation phenomenon of amorphous styrene oligomer around the glass transition temperature in various measurement methods  
Jun Fujimura, Minato Sugisaki, Marika Yokota, Eri Nishiyama, Itaru Tsukushi
- 1Pc051 Relationship between the fracture mechanism and molecular structures of polyrotaxane glasses  
Kohzo Ito, Hideaki Yokoyama, Kazuaki Kato, Koichi Mayumi, Masayuki Taniguchi, Kaito Nemoto
- 1Pd052 The influence of annealing on toughness of polycarbonate  
Toshiki Sato, Shotaro Nishitsuji, Hiroshi Ito, Masaru Ishikawa
- 1Pc053 130 nm-spaced Lamellae formed by ABA Triblock Copolymers Comprising a Main-Chain Liquid Crystalline Polyester Connected to Amorphous Segments at Both Ends  
Junpei Kuribayashi, Mikihiro Hayashi, Masatoshi Tokita
- 1Pd054 Two-dimensional Raman Scattering Correlation Spectroscopy Analysis of the Helix-sense Inversion of Polyaspartate in the Solid State  
Yuki Suzuki, Hidemine Furuya, Takuji Kishimoto, Yuki Nakama
- 1Pc055 Synthesis of rigid polyrotaxanes and self-assembled structure  
Riki Masuda, Shuntaro Uenuma, Rina Maeda, koichi Mayumi, Hideaki Yokoyama, Kohzo Ito
- 1Pd056 Inclusion complex formation kinetics of poly(ethylene glycol) and alpha-cyclodextrins  
Ken Fujita, Norihumi Yamada, Kohzo Ito, Hideaki Yokoyama
- 1Pc059 Fabrication of PVA / PMMA blend film by solution casting method  
Naoya Tsugawa, Masayuki Yamaguchi
- 1Pd060 Mechanical and gas barrier properties of blends of BVOH modified PVOH  
Shogo Sumino, Katsuhisa Tokumitsu, Hiroki Takeshita, Mitsuo Shibutani, Shin

- Nishimura, Hirotsada Fujiwara
- 1Pc061 Mechanical and Gas barrier properties of Polyolefin/EVOH blends  
Koki Morita, Hiroki Takeshita, Katsuhisa Tokumitsu
- 1Pd062 Morphological analysis of polymer alloy foam containing cellulose nanofiber.  
Akihiro Masuda, Asahiro Nagatani, Kazuya Hamaguchi, Akihiro Tsutsumida, Naoto Kaneko, Mayumi Ooto
- 1Pc063 Studies on Morphologies in Binary Polymer Blends Induced by Irradiation with Non-uniform Light Patterns.  
Yuki Yamashita, Kenzo Oya, Hideyuki Nakanishi, Tomohisa Norisuye, Tran-Cong-Miyata Qui
- 1Pd064 POLYMER ALLOY OF POLYBUTYLEN TEREPHTHALATE AND POLYROTAXANE AND ITS PHYSICAL PROPERTIES  
Fumiya Sakakibara, Akira Ishigami, Hiroshi Ito
- 1Pc065 at the dispersion stability suspension and aggregation structure in polystyrene for cellulose microfiber  
Shuji Suzuki, Yosihisa Fujii, Naoya Torikai

### C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 1Pc073 Upconversion Emission Using Emitting Amorphous Molecular Materials  
Kazuki Shishido, Hideyuki Nakano
- 1Pd074 Reversible Color Change of Hybrid Films Composed of Azobenzene-based Amorphous Molecular Materials and Organic Acid  
Yuuya Kitamura, Ryoji Ichikawa, Hideyuki Nakano
- 1Pc075 Synthesis of azobenzene main-chain type polymer having chiral side chain  
Masashi Otaki, Hiromasa Goto
- 1Pd076 Fabrication, luminescent control, and mode splitting of self-assembled microcavities from fluorescent photochromic molecules  
Daichi Okada, Masakazu Morimoto, Masahiro Irie, Humio Sasaki, Thang Dao, Satoshi Ishii, Tadaaki Nagao, Yohei Yamamoto
- 1Pc077 Synthesis and High Refractive Index Properties of Poly(thiophosphonate)s  
Ryoyu Hifumi, Ikuyoshi Tomita
- 1Pd078 Synthesis and characterization of high refractive index and low birefringence triazine-based poly(phenylene sulfide)s  
Mao Chun Fu, Mitsuru Ueda, Tomoya Higashihara
- 1Pc079 The synthesis and characterization of indolocarbazole derivatives connecting with azo unit  
Rei Oikawa, Kazuki Aoyama, Tomoki Mimura, Masuki Kawamoto, Yu Nagase
- 1Pd080 Spectrum analysis of dye-doped polymer optical fiber  
So Kamimura, Rei Furukawa
- 1Pc081 Synthesis of Insoluble PMMA by Atom Transfer Radical Polymerization  
Yuki Ohoboshi, Yumiko Naka
- 1Pd082 Synthesis of Extended-Viologen Polymers and Their Photo-Responsive Behavior  
Shota Ito, Yumiko Naka
- 1Pc083 Thermal expansion and refractive index of transparent polymers  
Atsushi Hatano, Norihisa Tanio
- 1Pd084 Selective functionalization at photo-irradiated surface of a polymer film by reaction development patterning  
Haruki Kawabata, Kyosuke Watanabe, Yuichiro Tokoro, Tosiya Oyama
- 1Pc085 Characteristics of White Polymer Light-Emitting Electrochemical Cells Fabricated with Blue-Green Polyfluorene Derivatives and Red Phosphorescent Iridium Complexes  
Zhe xing Zhao, Hiroyuki Nishide, Yoshinori Nishikitani, Soichi Uchida, Suzushi Nishimura
- 1Pd086 Preparation of P3HT nanoparticles by reprecipitation and the composite films with electron acceptor  
Kota Suetsugu, Mitsuo Hara, Shusaku Nagano, Keiji Shito, Toshimitu Sato, Akito Masuhara, Takahiro Seki

- 1Pc087 Synthesis and Properties of High Refractive Index Poly(arylene thioether)s by Oxidative Polymerization  
Yoko Tanaka, Hiroyuki Nishide, Kenichi Oyaizu
- 1Pd088 Photoinduced mass transfer propagated from a surface segregated photoresponsive polymer layer  
Keisuke Kato, Takashi Nakai, Mitsuo Hara, Shusaku Nagano, Takahiro Seki
- 1Pc089 Optical reorientation behaviors for photoresponsive liquid crystalline block copolymers with chirality  
Marina Ueda, Masami Sano, Mitsuo Hara, Shusaku Nagano, Takahiro Seki
- 1Pd090 Orientation in LC random copolymers composed of different orientation mesogens  
Ryota Imanishi, Mitsuo Hara, Shusaku Nagano, Takahiro Seki
- 1Pc091 Photoinduced mass transfer in polymer hetero thin line formed onto liquid crystalline polymer thin films  
Kazuaki Ooishi, Issei Kitamura, Mitsuo Hara, Shusaku Nagano, Takahiro Seki
- 1Pd092 Photofabrication of thick patterns of acrylate resins using organic peroxides as a photoradical initiator  
Yuki Ishizaki, Masaki Hayashi, Masahiro Furutani, Koji Arimitsu
- 1Pc093 Photo-patterning of epoxy thick films using an anionic UV curing system enhanced by chain curing agents  
Kouta Ooki, Kiwamu Terada, Masahiro Furutani, Koji Arimitsu
- 1Pd094 Photosensitivity characteristics of polyhydroxyimide containing photobase generators  
Misaki Takashima, Yasutaka Mitsui, Takao Miwa, Masahiro Furutani, Koji Arimitsu
- 1Pc095 Effect of acid amplifiers on photopatterning of *N*-substituted polyanilines in the dry process  
Eishiro Hiraga, Masahiro Furutani, Koji Arimitsu
- 1Pd096 Construction of a low-temperature redox photopolymerization system for UV curing of bulk materials  
Kazuki Nakamoto, Masahiro Furutani, Koji Arimitsu, Akira Nakasuga
- 1Pc097 Photoformation of Surface Relief on Thin Film Containing Bislophine Derivative  
Masaki Hatase, Masato Toyoda, Takashi Ubukata

## **E. POLYMERS AND ENVIRONMENT**

- 1Pc101 Study on the changes in the physical properties of poly(L-lactide) treated with different process  
Chikara Tsutsumi, Yumeko Ishikawa, Megumi Tsuzura, Susumu Nakayama, Yuushou Nakayama, Takeshi Shiono
- 1Pd102 Guayule and Dandelion Natural Rubbers for Biosecurity and Biodiversity  
Preeyanuch Junkong, Threethip Phakkeeree, Katrina Cornish, Yuko Ikeda
- 1Pc103 Stereocomplex and nanostructure control by polylactide bearing vanillin at chain end  
Mizuho Iwami, Kai Kan, Mitsuru Akashi, Hiroharu Ajiro
- 1Pd104 Toughening modification of diglycerol-based polylactide networks by incorporating poly(propylene sebacate) segments  
Ayaka Shibita, Haruka Abe, Shohei Matsuda, Toshiaki Shimasaki, Naozumi Teramoto, Mitsuhiro Shibata
- 1Pc105 Ionic conductivity of electrolyte based on bis(2-(2-hydroxyethoxy)ethyl) carbonate derivatives having dianhydroglucitol  
Sayaka Watanabe, Yukari Tanaka, Yuzo Ishigaki, Keigo Aoi
- 1Pd106 Structures and lithium ionic conductivities of polyester dendrimers having diol spacer and dianhydroglucitol  
Rie Suzuki, Yuzo Ishigaki, Keigo Aoi
- 1Pc107 A relationship between structure and lithium ionic conductivities of polycarbonates derived from a sugar-based diol and oligo(ethylene glycol)  
Yukari Tanaka, Yuzo Ishigaki, Keigo Aoi
- 1Pd108 Macromolecular Conversion of Algal Hydrocarbon, Botryococcene, by Hydrosilylation  
Hidehisa Kawashima, Mami Umezawa, Moe Saito, Masashi Kijima
- 1Pc109 Cr(VI) ion adsorption on cross-linked chitosan beads

- Miho Takagi, Yuji Kimura, Hiromichi Asamoto, Kazunori Yamada, Hiroaki Minamisawa
- 1Pd110 Fabrication of polyimide nanoparticles from building blocks of amino-acid dimers  
Thawinda Kongprathet, Tatsuo Kaneko
- 1Pc111 Development of Double Trigger type Pressure-Sensitive Adhesives  
Hideki TACHI
- 1Pd112 Chemical modification of cinnamic acid photodimer and synthesis of high performance and high transparency bio-based polyamide  
Yuko Mae, Seiji Tateyama, Tatsuo Kaneko
- 1Pc113 Investigation on synthesis for PHA using sweet potato starch waste  
Masato Uenishi, Teruyuki Seino, Shunsuke Iwanami, Kenji Tajima
- 1Pd114 Investigation on synthesis conditions for PHA using the enzyme-treated starch extracted from Ulva.  
Masato Uenishi, Kouya Kobayashi, Teruyuki Seino, Takanori Kobayashi, Shinji Fujita, Kenji Tajima
- 1Pc115 Development of low temperature X-linkable poly(arbutin) having oxazine terminals  
Rika Kajiwara, Yoshiyuki Oishi, Yuji Shibasaki
- 1Pd116 Synthesis and adhesive properties of bio-based network polymers by reversible reaction  
Yohtaro Inoue, Akiko Nakahashi, Hideki Tachi
- 1Pc117 Characterization of hydrophilic GST-tagged polyhydroxyalkanoate synthase  
ken harada, takeharu tsuge, ayaka hiroe
- 1Pd118 Synthesis of polylactide-grafted cellulose nanofiber by acid/base organocatalyst and its properties  
Shinji Fujie, Joji Kadota, Akinori Okada, Hiroshi Hirano, Yasuyuki Agari
- 1Pc119 Removal of liner and branched alkylphenol by combined use of polyphenol oxidase and chitosan  
Mitsuki Tsushima, Yuji Kimura, Ayumi Kashiwada, Kazunori Yamada
- 1Pd120 Biosynthesis and characterization of bacterial polyesters mainly composed of 3HHx unit  
Makoto Kobayashi, Ayaka Hiroe, Takeharu Tsuge

Presentation Time

<e = 15:20~16:00>

<f = 16:00~16:40>

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

- 1Pe001 Synthesis of poly(thienylenevinylene) by Horner-Wadsworth-Emmons condensation reaction  
Eisuke Goto, Mitsuru Ueda, Tomoya Higashihara
- 1Pf002 Synthesis and physical properties of polypeptide containing mesogenic group in the side chain  
Shota Ando, Shuhei Yamada, Takeshi Endo, Nobuo Yasuike, Takashi Okada
- 1Pe003 Synthesis and cyclopolymerization of bis(acrylamide) monomers having dipeptide units  
Tomoka Yoshida, Kota Hio, Hideaki Oike
- 1Pf004 Multicomponent Polymerization of Amino Acid Derivatives Generating Sequence-Defined Polymers  
Masaki Shimoi, Ryohei Kakuchi, Tatsuya Nishimura, Shigeyoshi Kanoh, Katsuhiro Maeda
- 1Pe005 Synthesis of polythioethers from dialdehydes and sulfur using indium catalyst and disiloxane as reducing agents  
Masaru Yoneyama, Shunta Kimura
- 1Pf006 Direct arylation synthesis and nanostructure analysis of poly(3-alkylselenophene)s  
Naoto OTSUKI, Kazuhiro NAKABAYASHI, Hideharu MORI
- 1Pe007 Synthesis of multi-functional ester free type trimethylene carbonate derivatives.  
Hiroaki NOBUOKA, Yoshiaki HARAMIISHI, Hiroharu AJIRO
- 1Pf008 RAFT-mediated polymerization in emulsion phase: gamma- and electron-beam initiated grafting  
Jordan Fernandez Madrid, Lucille V Abad, Yuji Ueki, Takeshi Yamanobe, Noriaki Seko
- 1Pe009 Modification of aspartame diketopiperazine as functional monomer  
Hongrong Yin, Tatsuo Kaneko
- 1Pe011 Control of supramolecular polymerization of platinum complex possessing phenylisoxazoles

- Hidemi Tsukamoto, Midori Takayama, Toshiaki Ikeda, Takeharu Haino
- 1Pf012 Ligand effects on the optical properties of soluble AuSR coordination polymer  
Takeya Ono, Riku Matsumine, Yukatsu Sichibu, Katsuaki Konishi
- 1Pe013 Unique aggregation behavior of molecular-like gold clusters with hydrophobic interaction  
Mizuho Sugiuchi, Yukatsu Shichibu, Yoshihiro Yamauchi, Noriko Horimoto, Yasuhiro Ishida, Katsuaki Konishi
- 1Pf014 Hollow spheres and tubular assemblies built from an adamantane-based macrocycle  
Masahide TOMINAGA, Masatoshi KAWAHATA, Tsutomu ITOH, Kentaro YAMAGUCHI
- 1Pe015 Polymerization Induced Self-Assembly via RAFT Dispersion: Formation of Diblock Copolymer Worm  
Miku Sakai, Shinji Sugihara, Masahiro Sudo, Satoshi Irie, Yasushi Maeda
- 1Pf016 Higher-Ordered Structure and Stimuli-Responsive Property Control of Supramolecules through Aurophilic Interactions by Using Organoarsenic Bidentate Ligands  
Shintaro Nishiyama, Hiroaki Imoto, Takashi Yumura, Kensuke Naka
- 1Pe017 Synthesis, Characterization, and Properties of Multistimuli-Responsive Triblock Copolymers Based on Terpyridine Metal Complexes and Photodegradable Cross-Linkers  
Takuma Igari, Tsung-Han Tu, Chia-Wei Yang, Kazuo Yamaguchi, Yi-Tsu Chan
- 1Pf018 Diaryl[n]dendralene: Aggregation-induced Emission of sp<sup>2</sup>-Carbon based Molecules.  
Nobuaki Tanimoto, Shotaro Hayashi, Toshio Koizumi
- 1Pe019 Alternative Synthetic Route toward Modified Pentaazaphenalenenes and Construction of Mesophase by Their Aggregation  
Hiroyuki Watanabe, Kazuo Tanaka, Yoshiki Chujo
- 1Pf020 Synthesis of head-to-tail supramolecular porphyrin polymer possessing flexible alkyl chain  
Naoyuki Hisano, Toshiaki Ikeda, Takeharu Haino
- 1Pe021 Synthesis and solid-state emission of novel maleimide dyes showing long-wavelength luminescence  
Ryosuke Fujii, Hiroaki Imoto, Kensuke Naka
- 1Pf022 Molecular recognition of pyromellitic diimide-based one-dimensional molecular aggregates  
Kanae Kitao, Hiroki Ichihara, Norifumi Fujita
- 1Pe023 Improvement of gelation properties by low molecular-weight gelator dimer  
Noriko Matsunaga, Norifumi Fujita
- 1Pf024 Formation of Heterocrystal Fibers  
Yukinaga Suzuki, Daigo Miyajima, Takuzo Aida
- 1Pe025 Synthesis and self-assembly behaviors of heptazine derivatives in organic solutions  
Ryunosuke Hashio, Syuhei Ogawa, Misato Tani, Masahiro Hunahashi, Shinobu Uemura
- 1Pe029 Controlled Copolymerization by Metal Complex [80] Copolymerization of Carbon Dioxide and Oxetane Catalyzed by Aluminum Porphyrin Complex-Quaternary Ammonium Salt System.  
Ryo Nakamura, Hiroshi Sugimoto
- 1Pf030 Polymerization of 1,3-butadiene catalyzed by dihydroxy bipyridine cobalt complex  
Shinji Yamakawa, Daisuke Takeuchi, Kohtaro Osakada
- 1Pe031 Copolymerization of 1,3-butadiene with norbornenes catalyzed by bipyridine nickel complex  
Shinji Yamakawa, Daisuke Takeuchi, Kohtaro Osakada
- 1Pf032 Copolymerization of Styrene and Norbornene using Anilinonaphthoquinone ligated Nickel Catalysts  
Samiul Islam Md. Chowdhury, Ryo Tanaka, Yuushou Nakayama, Takeshi Shiono
- 1Pe033 Synthesis and their properties of stereoblock polydienes using Nd-based catalyst  
Yuto Shinto, Ryo Tanaka, Yuushou Nakayama, Takeshi Shiono
- 1Pf034 Attempt at Synthesis and Polymerization of Diazoacetates Bearing a Polyester Dendron  
Hazuki Okuda, Hiroaki Shimomoto, Tomomichi Itoh, Eiji Ihara
- 1Pe035 Pd-Initiated polymerization of diazoacetates bearing oligo(ethylene glycol)-substituted cyclotriphosphazenes and temperature-responsive behavior of the resulting polymers  
Tomohiro Yamada, Hiroaki Shimomoto, Tomohichi Itoh, Eiji Ihara
- 1Pf036 Polymerization of diazoacetates containing a BODIPY unit and investigation of

- photophysical properties of the resulting polymers  
Soichiro Teratani, Yuki Shibazaki, Hiroaki Shimomoto, Tomomichi Itoh, Eiji Ihara
- 1Pe037 Synthesis of Glucose-containing Poly(substituted methylene)s by Pd-initiated Polymerization of Diazoacetates  
Miho Kudo, Yumiko Hayashi, Hiroaki Shimomoto, Tomomichi Itoh, Eiji Ihara
- 1Pf038 Suzuki-Miyaura Catalyst-Transfer Condensation Polymerization of Fluorene Monomer with Neopentyl-*t*Bu<sub>2</sub>P Ligated Palladium Complex  
Tatsuya Uchida, Yoshihiro Ohta, Tsutomu Yokozawa
- 1Pe039 Preparation of Polynorbornene Particles by Dispersion Ring-Opening Metathesis Polymerization  
Yuki Osawa, Michinari Kohri, Tatsuo Taniguchi, Keiki Kishikawa, Takeshi Wakiya
- 1Pf040 Synthesis of novel rare earth complexes featuring a pendant aluminate and their application as polymerization catalysts  
Ryusei Matsuzaki, Ryo Tanaka, Yushou Nakayama, Takeshi Shiono
- 1Pe041 Development of Multicomponent Polycondensation using O-H Insertion of Metal Carbenoid  
Takeshi Mori, Hiroaki Shimomoto, Tomomichi Itoh, Eiji Ihara
- 1Pf042 Suzuki-Miyaura Coupling End-functionalization of Poly(3-hexylthiophene) Propagating End in Kumada-Tamao Coupling Polymerization with Aryl Boronic Acid Esters  
Yu TOKITA, Tatsuya UCHIDA, Takeru KAMIGAWARA, Kenta HOKA, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 1Pe043 Development of synthetic conjugated polymer catalyst based on quorum sensing compound  
Kohei Yamabe, Nobuhiko Nomura, Hiromasa Goto
- 1Pf044 Polymerization of Bio-renewable Dienes Using New Simple Catalyst Systems Based on Rare-Earth-Metal Chlorides  
Kei Nishii, Kyosuke Matsumoto, Nao Ishizaki, Shun Ohta, Tomoyuki Toda
- 1Pe045 Development of versatile synthetic methods for the polymers containing phosphines in the main chain  
Yuki Wada, Naoko Kubota, Hidetoshi Ohta, Minoru Hayashi
- 1Pf046 Mechanism for ring-opening polymerization of propylene oxide in phosphazanium salt- alkylaluminum catalyst system  
Syogo Hosomi, Yusyo Nakayama, Tsuyoshi Shiono, Ryo Tanaka, Yoshiaki Inoue, Toshihide Yamamoto, Katsuaki Mori

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

- 1Pf048 Recent Status in the Small-Angle X-ray Scattering Beamlines of Photon Factory  
Shogo Tomita, Hideaki Takagi, Nobutaka Shimizu, Yasuko Nagatani, Keiko Yatabe, Masatsuyo Takahashi, Takeharu Mori, Hiromasa Ota, Shinya Saijo, Kento Yonezawa, Takashi Kosuge, Noriyuki Igarashi
- 1Pe049 Higher order structural changes of collagen model peptide studied by low frequency Raman spectroscopy  
Tomoki Nagahama, Harumi Sato
- 1Pf050 NMR spectroscopic analysis of detailed structure of cellulose acetate  
Hiroyuki Kono
- 1Pe051 High resolution separation and evaluation of composition distribution of hydrophilic-thiolate protected gold clusters using LC/MS  
Daisuke Shima, Kana Yoshida, Yoshiki Niihori, Yuichi Negishi
- 1Pf052 Behavior of water-soluble single polymer chain in solvent by nanofishing using atomic force microscopy  
Taichi Nakajo, Ikuo Fujinaga, Xiaobin Liang, Sungmin Kang, Takamasa Sakai, Ken Nakajima
- 1Pe053 Computational chemical study on tire rubber material  
Yutaro Ishikawa, Koji Okuwaki, Hideo Doi, Yuji Mochizuki, Hirokazu Sato
- 1Pf054 Tacticity analysis of poly(lactic acid) by multivariate analysis of NMR spectra (V): Improvement of prediction accuracy by an extension of total samples for the training data set  
Ikuma Wakamatsu, Yudai Ishii, Miyuki Oshimura, Tomohiro Hirano, Koichi Ute, Koto Saganuma, Tetsuo Asakura
- 1Pe057 Development of BOPP capacitor film utilized for HEV/EV

Yoshimune Okuyama, Michiko Maeda, Masahiro Nakata, Tadakazu Miyata

- 1Pf058 Effect of Crystallite Size on Electric Breakdown in BOPP Film  
Michiko Maeda, Yoshimune Okuyama, Takeshi Tominaga, Tadakazu Miyata
- 1Pe059 Dynamics of Polyrotaxane Glass Investigated by Quasi-elastic Neutron Scattering  
Masayuki Taniguchi, Koichi Mayumi, Kazuaki Kato, Hideaki Yokoyama, Tatsuya Kikuchi, Maiko Kofu, Kenji Nakajima, Kanaya Toshiji, Kohzo Ito
- 1Pf060 Control of electric conductivity fluctuation in thin film of poly(3-decylthiophene)  
Eri Ishiduka, Yuta Ohno, Teruo Kanki, Hidekazu Tanaka, Naoki Asakawa

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

- 1Pe065 Diffusion of gas that has entered the rubbery polymer  
Asami Miyashiro, Hiroaki Yoshimizu
- 1Pf066 Gas sorption properties of poly 4-methyl-1-pentene were characterized by <sup>129</sup>Xe NMR  
Yusuke Nomura, Hiroaki Yoshimizu
- 1Pe067 Gas transport properties characterization of the PMMA which changed high order structure  
Eriko Nishiguchi, Hiroaki Yoshimizu
- 1Pf068 Gas transport properties of novel fluorine-contained polyimide - silica hybrid membranes  
Tomoyuki Suzuki
- 1Pe069 Structure activity relationship of water-soluble supramolecular system in multielectron redox reaction  
Riku Kubota, Hiroyoshi Kawakami
- 1Pf070 Preparation and CO<sub>2</sub> gas permeability of cellulose acetate membranes composite with cyclodextrin based metal-organic framework  
Hirohito YAMASAKI, Ayana TANIGAWA, Mika MATSUSHIGE, Hirotaka KAWAGUCHI, Syoichi AIDA, Tomoya MASUDA, Izumi KUMAKIRI, Kazuhiro TANAKA, Hidetoshi KITA
- 1Pe071 Dissolved VOC Permeability of PTMSP Membrane by Pervaporation Method  
Shuhei Tamada, Kentaro Saito, Akito Ono, Isao Komaki, Kazukiyo Nagai
- 1Pf072 Perfume Ingredient Solubility of Poly(lactic acid) Membrane  
Yukiko Moriizumi, Hajime Fukuda, Kisato Nishida, Naoto Yonemaru, Kazukiyo Nagai
- 1Pe073 CO<sub>2</sub> Solubility and Temperature Dependence of Adamantyl group Containing Polymer Membranes  
Miho Imai, Hajime Fukuda, Tsubasa Uno, Shinpei Konishi, Kazukiyo Nagai
- 1Pf074 Synthesis and Membrane Properties of ABA-type Triblock Copolymers Derived from Polyimide and Hydroxyl Group-containing Adamantane Derivatives  
Tsubasa Ito, Ryunosuke Shiota, Naomi Taniguchi, Akihiro Yoshida, Shota Ando, Kazukiyo Nagai
- 1Pe075 Effect of Fouling on Dissolved Gas Permeability of Crystalline Poly(lactic acid) Membrane  
Meigin Sho, Sumito Nagahama, Akihiro Yoshida, Kazukiyo Nagai
- 1Pf076 Alcohol Vapor Solubility and Temperature Dependence of POSS-containing Polymer Membranes with Different Substituents  
Hajime Fukuda, Yukiko Moriizumi, Seiya Tanaka, Daisuke Tanaka, Kazukiyo Nagai
- 1Pe077 Synthesis and Membrane Properties of Acrylamide / Silicone Copolymers  
Ren Hamada, Keisuke Ikeda, Wataru Kawasoko, Yohei Sasago, Kazukiyo Nagai
- 1Pf078 Synthesis and Membrane Structure Analysis of Acrylamide / Silicone Copolymers  
Keisuke Ikeda, Ren Hamada, Wataru Kawasoko, Yohei Sasago, Kazukiyo Nagai
- 1Pe079 The highly gas permeable membrane modified by the polymer nanosheets exhibiting superior selectivity of CO<sub>2</sub>/N<sub>2</sub>  
Taishi Suzuki, Kana Ando, Yosuke Okamura, Yu Nagase
- 1Pf080 Synthesis of aromatic polymers containing imidazolium group to improve gas separation property  
Botakoz Suleimenova, Chihiro Umeda, Yosuke Okamura, Yu Nagase
- 1Pe081 Modification of carbon surface with hyperbranched poly(ether sulfone) and applications to solid acid catalyzed reactions  
Tsubasa Taniguchi, Masaki Tomita, Yuta Nabae, Teruaki Hayakawa, Masa-aki Kakimoto

- 1Pf082 Novel Porous Materials Based on Benzimidazole-Linked Polymers Containing on Binaphthalene Frameworks  
Iku Utsunomiya, Makoto Miyasaka
- 1Pe083 Separation of platinum group metals using polymer micelles as templates  
Akihiro Hirate, Michinari Kohri, Tatsuo Taniguchi, Keiki Kishikawa, Takeshi Ogata, Hirokazu Narita, Ryuhei Motokawa
- 1Pf084 Colorimetric Chiral Recognition on Helical Poly(diphenylacetylene) Derivatives Bearing Chiral Crown Ether Pendants  
Azusa MIZUKAMI, Daisuke HIROSE, Tatsuya NISHIMURA, Shigeyoshi KANO, Katsuhiko MAEDA
- 1Pe085 Synthesis and application to molecular recognition of the optically active thermoresponsive polymers having fluorescence probe sites  
Katsunori Kido, Manabu Ishifune
- 1Pf086 Synthesis of Cyclodextrin Dimers Bearing Multiple Linkers and Effect of the Linkers on their Inclusion Ability  
Hitomi Iguchi, Shogo Ito, Toshiyuki Kida
- 1Pe087 Development of stationary phases for paper chromatography modified with urethane group  
Seiya Koseki, Yoshimasa Matsumura, Bungo Ochiai
- 1Pf088 Preparation of PEG-graphene oxide-carbon nitride hybrid films for desalination  
Takuya Go, Daichi Tada, Atsuto Nannba, Tomohiro Kiyasu, Takuhiro Yamamoto, Feng Qi, Shinobu Uemura
- 1Pe089 Development of advanced reverse osmosis membrane  
Yoshiki Nishiguchi, Koji Nakatsuji, Takao Sasaki, Takafumi Ogawa, Masahiro Kimura
- 1Pf090 Evaluation of metal ion trapping ability of amidinourea resin  
Takuma Saito, Satomi Tanaka, makoto Miyasaka
- 1Pe091 Selective adsorption from mixed solution of noble metal ions by using silica microparticles modified with zwitterionic block peptide.  
Kouhei Yamada, Shokyoku Kanaoka, Satoshi Tanimoto
- 1Pf092 Substrate-shape Selectivity of Pt Cluster Catalysts inside Cavities of Rigid Dendrimers  
Yuto Kato, Tetsuya Kambe, Takane Imaoka, Kimihisa Yamamoto
- 1Pe093 Diffusion properties of ethylene vinyl alcohol copolymer swollen by water  
Haruka Matsushita, Hiroaki Yoshimizu

## **E. POLYMERS AND ENVIRONMENT**

- 1Pe095 Development of bio-based green lacquers inspired from natural lacquer  
Shinji Kanehashi, Kenji Ogino, Tetsuo Miyakoshi
- 1Pf096 Preparation of a hot-melt adhesive from thermosetting resin composite wastes and evaluation of their adhesion properties  
Kazunori Fujii, Michinori Karikomi, Takao Kimura, Toshihiro Ihara
- 1Pe097 Hydrothermal Synthesis of Fluorescence Carbon Quantum Dots from Lignin as Carbon Source  
Keita Miki, Hideya Kawasaki
- 1Pf098 Synthesis of Cellulose Derivatives Bearing Dithiocarbamate Pendants as As(III) Adsorbents  
Mikiya Ito, Maho Miyaguchi, Tomoyuki Ikai, Hiroshi Hasegawa, Shigeyoshi Kanoh, Katsuhiko Maeda
- 1Pe099 Development of Plastic Recycling System Using a Unique Reaction Field  
Shinnosuke Kaga, Kengo Kumagai, Yasuharu Kanda, Yoshio Uemichi
- 1Pf100 Catalytic Degradation of Polyolefins Using MFI Zeolites  
Shinnosuke Kaga, Yasuharu Kanda, Yoshio Uemichi
- 1Pe101 Selective chemical modification of lignins in lignocellulose coposites  
Nobuhiro Watanabe, Yoshiharu Mitoma, Takuya Matsumoto, Mitsuru Aoyagi
- 1Pf102 Estimation of Photo-Excitation and Relaxation Processes of Native Lignin Derivatives  
Mitsuru AOYAGI, Sara INOUE, Masaki YAMAMOTO
- 1Pf104 Formaldehyde-removal technique by electrospun PVA nanofibers containing of titanium oxide and enzyme.  
Tomohide Hiramatsu, Tomonori Waku, Naoki Tanaka



- 1Pe105 Mechanical properties dependence of shear stress of amorphous polymer.  
Natsumi Yamasaki,Panton Pachiya,Aya Tominaga,Keitaro Yamashita,Hiroshi Sekiguchi,Ryoko Nakano,Shigeru Yao
- 1Pf106 Copper (2) complexation of TPP in ionic liquids  
Tetsuro Hori,Satoshi Kitaoka
- 1Pe107 NMR study of papain-catalyzed lysine-treated pectin  
Shunsuke Sato,Makiko Enoki
- 1Pf110 Design of elastomeric materials based on microphase separation of sugar-containing triblock copolymers  
Takuya Isono,Saki Nakahira,Redouane Borsali,Kenji Tajima,Toshifumi Satoh
- 1Pe111 Factors affecting the molecular weight of lactate-containing polyester  
Mikito Nabasama,Ayaka Hiroe,Takeharu Tsuge
- 1Pf112 A study on mechanical properties of the silk-epoxy resin composite films  
Kang Yang,Kousuke Tsuchiya,Juan Guan,Keiji Numata
- 1Pe113 Residual Carbon Source of the Biosynthesizing Bioplastic by *R. eutropha*.  
Ippei Yamauchi,Takahiko Nakaoki
- 1Pf114 Biosynthesis and micelle formation of PHBV-b-PHB diblock copolymer using *R.eutropha*  
Tomo Komaeda,Takahiko Nakaoki
- 1Pe115 Biosynthesis of Polyester metabolized from Phenyl alcanoic acid with different carbon number by *P.putida*  
Yuki Tanaka,Takahiko Nakaoki
- 1Pf116 Synthesis of ABC type sequence-regular copolymers consisting of terephthalic acid, ethylene glycol, and hydroxy carboxylic acid  
Koichi Akiyama,Ryo Tanaka,yuushou Nakayama,Takeshi Shiono,Norioki Kawasaki,Naoko Yamano,Atsutoshi Nakayama
- 1Pe117 Thermal properties of linear and branched polyamide 4  
Norioki Kawasaki,Naoko Yamano,Atsuyoshi Nakayama
- 1Pf118 Suppressing the biodegradability of polyamide 4  
Naoko Yamano,Norioki Kawasaki,Atsuyoshi Nakayama
- 1Pe119 Synthesis and properties of polyurethane elastomers containing the disaccharide and the trisaccharide.  
Atsumi Takahara,Mikiyasu Tanaka,Shin-ichi Inoue
- 1Pf120 Addition of stimulus responsiveness to Cs + adsorbent immobilizing Prussian Blue and evaluation of convenience assuming practical use  
Kouki Kobayashi,Fumika Takashi,Keiji Yamashita

#### **Thu. Sep 21**

Presentation Time

<a = 10:20~11:00>

<b = 11:00~11:40>

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

- 2Pa001 Introduction of Luminescent Properties into Pentaazaphenylene by Modulating Molecular Orbitals with Boron Complexation  
Yuki KAWANO,Hiroyuki WATANABE,Kazuo TANAKA,Yoshiki CHUJO
- 2Pb002 Development of Solvent Vapor-Responsive Solid-State Emissive Films Based on Regioregular Boron Diiminate Homopolymers  
Misuzu Fukuyama,Shunichiro Ito,Kazuo Tanaka,Yoshiki Chujo
- 2Pa003 Synthesis of conjugated polymer having the optical activity with the pinene side chain  
Roan Ito,Hiromasa Goto
- 2Pb004 Synthesis and comparison of the conjugated polymer having liquid crystal substituent  
Roan Ito,Hiromasa Goto
- 2Pa005 Self-assembly of amphiphilic block copolymer having aggregated aggregation-induced emission properties  
Shin-ichi Yamamoto,Tomoyuki Ono,Shotaro Hayashi,Toshio Koizumi

- 2Pb006 Linear Poly(ethylacrylate) having Fluorescent  $\pi$ -Conjugated Molecular Structure: Control of Fluorescent Properties by  $\pi$ -Aggregates in Polymer Liquid  
Shotaro Hayashi, Tomoyuki Ono, Ryosuke Hirai, Toshio Koizumi, Yamamoto Shin-ichi
- 2Pa007 Synthesis and Fluorescent properties of hydrophilic polymer having fluorescent  $\pi$ -conjugated molecular structure  
Tomoyuki Ono, Shoutaro Hayashi, Ryosuke Hirai, Toshio Koizumi, Shin-ichi Yamamoto
- 2Pb008 Synthesis of n-type semiconducting polymers with alkylsilylalkyl side chains : The topological effect of side chains on crystalline structure and photoelectronic property  
Go Yamashita, Seijiro Fukuta, Tomoya Higashihara
- 2Pa009 Synthesis and Characterization of Conjugated Polymers Consisting of *p*-Terphenyl Bearing Two Dihydrobenzoxazaborine Units  
Takuya Imamura, Tomoyuki Ohishi, Akihiro Yokoyama
- 2Pb010 Synthesis of polycarbazoles with boron complex at the side chain  
Hiroki Saito, Atsushi Kimoto
- 2Pa011 Synthesis of quinacridone-based  $\pi$ -conjugated polymer complex with near infrared absorption  
Tomoka Fujii, Atsushi Kimoto
- 2Pb012 Development of insulated poly(*p*-phenylene ethynylene) carrying simple alkylene straps  
Yusuke Hattori, Tsuneaki Sakurai, Shu Seki
- 2Pa013 Synthesis and Characterization of Liquid Crystalline Poly(4-alkoxy-9-alkyl-2,7-carbazole)s  
Wenli Peng, Hidehisa Kawashima, Masashi Kijima
- 2Pb014 Amphiphilic Polymer Nanoparticles with Reversible Structure Transformation and Crystalline/Hybrid Cores  
Goki Hattori, Takaya Terashima, Mitsuo Sawamoto
- 2Pa015 Self-Sorting of Amphiphilic Random Copolymers in Water: Selective yet Dynamic Self-Assembly Systems  
Shota Imai, Takaya Terashima, Mitsuo Sawamoto
- 2Pb016 Amphiphilic/hydrogen-bonding cyclopolymers for stimuli-responsive self-assembly and dynamic cyclization systems  
Yoshihiko Kimura, Takaya Terashima, Mitsuo Sawamoto
- 2Pa017 Synthesis and application of amphiphilic block copolymer with pH-responsive hydrophobic segment.  
Eika Ishihara, Makoto Obata
- 2Pb018 An effective Intramolecular ESA-CF Polymer Cyclization by zwitterionic polystyrene precursor  
Tsuneaki Konomoto, Koji Nakamura, Takuya Yamamoto, Yasuyuki Tezuka
- 2Pa019 ESA-CF polymer folding by using periodically-positioned tetrafunctional telechelic poly(THF)s  
Kohei Kyoda, Ran Itsukushima, Takuya Yamamoto, Yasuyuki Tezuka
- 2Pb020 Synthesis and Investigation of Various of Polymers Capable of Ionic or Halogen Bonding Interactions: Towards the Formation of Polymers Networks  
Kira Landenberger, Masaya Murata
- 2Pa021 Optimization of gas permeability by intramolecular cationic polymerization of pendant vinyl ether groups of tight helix polyphenylacetylene membrane and highly selective photocyclic aromatization reaction.  
Takashi Sakata, Takeshi Namikoshi, Masahiro Teraguchi, Takashi Kaneko, Toshiki Aoki
- 2Pb022 Synthesis and property of platinacycle complex bearing optically active groups  
Taichi Sotani, Tatsuya Ogawa, Yu Miyagi, Fumio Sanda
- 2Pa023 Synthesis of double helical polymers by post-ADMET polycondensation of one-handed helical polyacetylenes having two N-alkenyl amide groups  
Ryohei Ohtomo, Masahiro Teraguchi, Takashi Kaneko, Toshiki Aoki
- 2Pb024 Synthesis of Optically Active Polymer Bearing Hydroxyamic Acids Backbonea via Asymmetric Polymerization  
Naoya Kanbayashi, Taka-aki Okamura, Kiyotaka Onitsuka
- 2Pa025 Synthesis of block copolymers consisted of chiral poly(4-methyl-2-ethyl-2-oxazoline) and achiral polymethyloxazoline.  
Makoto Isaki, Yuuma Umehara, Ren-hua Jin

- 2Pb026 Precise Syntheses of Cyclic Polymers Carrying Reactive Pendant via Ring-Expansion Cationic Polymerization  
Reina Kojima, Makoto Ouchi, Mitsuo Sawamoto

#### F. INDUSTRIAL POLYMERS AND TECHNOLOGY

- 2Pa029 Morphological Change in High-Density Polyethylene caused by Rapid Decompression of High-Pressure Hydrogen  
Kazuyuki Enomoto, Hirotada Fujiwara, Shin Nishimura
- 2Pb030 Quantitative surface strain analysis of a bending flexible film with small radius of curvature  
Kayoko Tokumitsu, Ryo Taguchi, Norihisa Akamatsu, Shigenori Fujikawa, Atsushi Shishido
- 2Pa031 Structural control of template polymer via polymerization-induced self-assembly (PISA)  
Shohei Kozuka, Shin-ichi Yusa
- 2Pb032 Evaluation on Replication Properties of Surface Microstructure for Vulcanized Rubbers  
Chihiro Kaneko, Akihiko Nemoto, Akira Ishigami, Hiroshi Ito
- 2Pa033 Synthesis and property of polytellurophene nanotubes  
Fumiya Akamatsu, Tsukasa Nakahodo, Hisashi Fujihara
- 2Pb034 Preparation of Electrospun Nonwovens Composed of Mixed Cyclodextrins  
Kenta Sakuragi, Hiroaki Yoshida
- 2Pa035 Formation of polythiophene microparticles by laser ablation using sacrifice layer  
Toshiki Ueyama, Yoshihiko Tezuka, Shuichi Hashimoto
- 2Pb036 Toughness enhancement of calcium phosphate by cellulose nanofibers  
Shuichi Asakura
- 2Pa037 Synthesis of polymeric silane coupling agents by using ATRP and their physical properties  
Sakie Yamauchi, Tomomi Hachiken, Kosuke Kaneko, Kiyomi Fuchigami, Tomonori Hanasaki
- 2Pb038 Characterization of insoluble sulfur prepared by melt electrospinning method  
Naoki Terada, Katsushige Kouge, Kazuhide Ueno, Hiromori Tsutsumi
- 2Pa039 Influence of Additives on Hydrogen Gas Permeation of Rubber  
Taro Kimura, Kazuko Nomiyama, Haruumi Hasuo, Toshihiro Urakawa, Naoyuki Uchiyama, Shingo Saita
- 2Pb040 Creation of helical carbon coil using with plant helical vessels  
Shota Hirokawa, Hiromasa Goto
- 2Pa041 Study on the higher order structure changes of NBR rubber materials with different cross-linked densities after the high-pressure hydrogen exposure by FT-IR spectroscopy  
Yuzo Itoh, Yusuke Suzuki, Tadatomo Kawai, Hirotada Fujiwara, Shin Nishimura
- 2Pb042 A study on Precision Synthesis of Functional Silane Coupling Agent using "Micro Flow Reactors" and Its performance evaluation as Dental materials  
Kiyomi Fuchigami, Kazuya Shinno, Toshiyuki Nakatsuka
- 2Pa043 Proton conductive Core-Shell type hybridized nanoparticles prepared by Reversible Addition-Fragmentation chain Transfer Polymerization with Particles method  
Keiji Shito, Satoshi Sekine, Yuki Takahashi, Toshihiko Arita, Akito Masuhara
- 2Pb044 Room temperature bonding between silicon with controlled terminal groups and polymer  
Toru Utsunomiya, Yoshihiro Fujiwara, Takashi Ichii, Hiroyuki Sugimura
- 2Pa045 Photo-activation bonding between highly smooth aluminum and polymer  
Zixin Luo, Toru Utsunomiya, Takashi Ichii, Hiroyuki Sugimura
- 2Pb046 Photo-activation bonding between titanium and polymer at room temperature  
Lihting Lin, Toru Utsunomiya, Takashi Ichii, Hiroyuki Sugimura
- 2Pa047 Investigation on Hydrophobicity of Polyphenylalanine Nonwoven Prepared by Electrospinning  
Kazuhiro Yanagisawa, Hiroaki Yoshida
- 2Pb048 Generation of surface roughness and amplification of wettability for azobenzene-bearing polymer blend films by depolymerization reactions  
Kazuki Tange, Masahiro Furutani, Koji Arimitsu
- 2Pa049 Silica thin film formation on a poly-olefin surface through vacuum ultraviolet light irradiation  
Toru Utsunomiya, Taiki Kanzawa, Takashi Ichii, Hiroyuki Sugimura

- 2Pb050 Preparation of transparent organic-inorganic hybrid materials with alumina nano-filer  
Chiko Naruse,Hideki Sugimoto,Shogo Nobukawa,Katsuhiko Inomata,Eiji Nakanishi
- 2Pa051 Preparation of transparent acryl / alumina hybrid materials with cationic polymer particles.  
Shotaro Ishimoto,Daisuke Ando,Hideki Sugimoto,Shogo Nobukawa,Katsuhiko Inomata,Eiji Nakanishi
- 2Pb052 Preparation of PVB/PMMA composite materials with high flexibility, and investigation of foldable characteristic  
Yuya Aoki,Masaaki Kumagai,Syogo Nobukawa,Hideki Sugimoto,Katsuhiko Inomata,Eiji Nakanishi
- 2Pa053 Study on higher order structure change of rubber material NBR after the high pressure hydrogen exposure by ab initio molecular orbital calculation  
Yuzo Itoh,Kentaro Goma,Tadatomo Kawai

### C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 2Pb056 Stimuli-Responsive Hydrogels that Exhibit Responsiveness against Various Molecules  
Masato Hosoda,Tsuyoshi Fujii,Yasumasa Kanekiyo
- 2Pa057 Development of Gyroid Structure Formed by Self-Organization of Photo-Responsive Zwitterions and Their Application to Adhesives.  
Tsubasa Kobayashi,Takahiro Ichikawa
- 2Pb058 Development of calcium phosphate-ionogel based on bimolecular ionic liquid  
Kazuki Murai,Keito Otsuka,Kazuya Kurumisawa,Takayuki Nonoyama,Mutsuyoshi Matsumoto
- 2Pa059 Mineralization of calcium phosphate at interface between peptide hydrogels having different charges  
Hiroto Isobe,Kazuki Murai,Kanjiro Torigoe,Mutsuyoshi Matsumoto
- 2Pb060 Effect of rheological properties of peptide hydrogel on mineralization of calcium carbonate  
Yosuke Funamizu,Kazuki Murai,Toshihiko Ogura,Mutsuyoshi Matsumoto
- 2Pa061 Development of Liquid-Crystalline Nanostructured Membranes and Their Separation Properties  
Kazuma Hamaguchi,Masafumi Yoshio,Takeshi Sakamoto,Takashi Kato
- 2Pb062 Design of a magnetically responsive self-oscillating gel for a control of spatiotemporal wave propagation  
Eunjong Lee,Younsoo Kim,Aya mizutani Akimoto,Ryo Yoshida
- 2Pa063 Preparation of temperature-responsive polymers showing high sensitivity to temperature in aqueous solution  
Chie Otsuka,Shinji Kobayashi,Akinobu Hayashi,Hidetoshi Tokuyama,Seichi Uchiyama
- 2Pb064 Synthesis of Fluorine-containing Compounds having Phenyl Groups and Formation of Supramolecular Gels  
Kanako Kano,Hisako Sato,Akihiko Yamagishi,Tomoko Yajima
- 2Pa065 Syntheses of Aldehyde Group Containing NIPAAm and Its Copolymer Aiming at Bioconjugate Preparation  
Mayuko Ohsaki,Toru Hoshi,Takao Aoyagi
- 2Pb066 Synthesis and characterization of temperature-responsive polymers capable of coexisting LCST and UCST  
Yukari Suzuki,Toru Hoshi,Takao Aoyagi
- 2Pa067 syndiotactic polystyrene gel system containing silver complex compound  
saori inomata,atsuki yamakawa,takumi sano,hideyuki itagaki
- 2Pb068 Precise synthesis of block copolymers containing poly(amino acid)s and their possibility for various functional materials  
Erika Yoshihara,Syunya Sakuma,Carmen Scholz,Michihiro Iijima
- 2Pa069 Encapsulation and release of guest molecules by nanogel with upper critical solution temperature (UCST)  
Maho Ohshio,Shin-ichi Yusa,Kazuhiko Ishihara,Atsushi Maruyama,Naohiko Shimada
- 2Pb070 Solvent Vapor-Induced Liquid Crystallinity and Anisotropic Magnetic Susceptibility of Helical Polymers  
Hiroki Hayashi,Shigeki Nimori,Hiromasa Goto

- 2Pa071 Effects of photo-irradiation on the fibrous network of a coumarin-containing gelator  
Nanako Matsuo, Hiroshi Maeda, Kazuhiro Yabuuchi, Masaya Moriyama
- 2Pb072 Design of functional gyroid minimal surface by aligning amphiphiles with diacetylene groups  
Hiroaki Takeuchi, Hiroyuki Ohno, Takahiro Ichikawa
- 2Pa073 Development of stimuli-responsive fluorescent Micelles based on poly(2-ethyl-2-oxazoline)  
Yosuke Niko, Shingo Hadano, Shigeru Watanabe
- 2Pb074 Synthesis of UCST type amphiphilic block copolymer with ureido group  
Kohei Itsuki, Shin-ichi Yusa, Atsushi Maruyama, Naohiko Shimada
- 2Pa075 Effect of RAFT Agent on Thermoresponsive Properties of Polyacrylamide Derivatives with Urethane Units  
Yusuke Murai, Shohei Ida, Shokyoku Kanaoka
- 2Pb076 Preparation of novel Dry Matters using amino acid-based ionic liquids and performance as CO<sub>2</sub> absorbent  
Kouki Nishiyama, Masaya Miyake, Mitsuru Sato
- 2Pa077 Optical Properties of Strain-Responsive Cholesteric Liquid-Crystalline Elastomer  
Seiya Kimura, Osamu Tsutsumi
- 2Pb078 Preparation of Biodegradable Shape Memory Polymer Films Exhibiting Multiple Shape-recovery to Folded States  
Kouki Kawagishi, Yuta Yoshizaki, Akinori Kuzuya, Yuichiu Ohya
- 2Pa079 Effects of Monomer Structure and Sequence on Thermoresponsive Properties of Copolymer Gels of Hydrophilic and Hydrophobic Monomers  
Daiki Nishisako, Shohei Ida, Shokyoku Kanaoka, Yoshitsugu Hirokawa
- 2Pb080 Synthesis of adhesive hydrogels comprising catechol groups and evaluation of their adhesion force  
Hiroko Suzuki, Tatsuo Aikawa, Isao Shitanda, Takeshi Kondo, Makoto Yuasa
- 2Pa081 Ion gels prepared by photo-induced dimerization and their application for photo-healable materials  
Aya Saruwatari, Ryota Tamate, Hisashi Kokubo, Masayoshi Watanabe
- 2Pb082 Evaluation of gap size of gold nanostructures prepared on the hydrogel surface  
Satoru Hamajima, Hideyuki Mitomo, Yasutaka Matsuo, Kenichi Niikura, Kuniharu Ijro
- 2Pa083 Fabrication of photo- and thermo- responsive ion gels formed from ABA triblock copolymers and application to photo-patterning  
Ryota Tamate, Takeshi Ueki, Aya Akimoto, Ryo Yoshida, Hisashi Kokubo, Masayoshi Watanabe
- 2Pb084 Surface Modification of Materials by Magnetically Responsive Polymer Brushes  
Kenshi Yanagimoto, Michinari Kohri, Tatsuo Taniguchi, Keiki Kishikawa
- 2Pa085 Synthesis of shape-memory resin based on monodisperse N-methyl benzamide oligomer with PEG soft segment  
Toshiki Mori, Atsuhiko Fujimori, Yoshiyuki Oishi, Yuji Shibasaki
- 2Pb086 Free-surface command system for photoalignment of non-photoinactive liquid crystalline polymer films and optical functional low-molecular-weight species via H-bonds  
Hiromi Ikoma, Ryosuke Fuji, Satoshi Minami, Nahomi Waki, Mizuho Kondo, Nobuhiro Kawatsuki
- 2Pa087 Influence of molecular weight on the photoalignment of photoinactive liquid crystalline polymeric films with top-coated cinnamic acid derivative  
Tomorou Uchikawa, Ryosuke Fuji, Mizuho Kondo, Nobuhiro Kawatsuki
- 2Pb088 Photoinduced bending behavior of cross-linked polymeric film with N-benzylideneaniline cross-linker  
Kotaro Makino, Ryohei Fukae, Mizuho Kondo, Nobuhiro Kawatsuki
- 2Pa089 Photoinduced orientation copolymethacrylate films with benzoic acid and phenyl aldehyde side groups and photoinactivation of the oriented film  
Shogo Inada, Ryosuke Fujii, Mizuho Kondo, Nobuhiro Kawatsuki
- 2Pb090 Phase transition behavior and electro-optical properties of polymer-stabilized blue phases including a tolane liquid crystal molecule with large birefringence  
Takuya Morishita, Hiroki Higuchi, Hidehisa Tazawa, Seiji Fukushima, Yasushi Okumura, Hirotsugu Kikuchi

- 2Pa091 Adhesion between water based and oil based soft materials utilizing thiourea bond.  
Junpei ONO,Norio TSUBOKAWA,Takeshi YAMAUCHI
- 2Pa093 Synthesis of thiophene derivative having chiral magnetism  
Masashi Otaki,Hiromasa Goto
- 2Pb094 Preparation of Magnetic Fluid Using Self-Doped Conducting Polymer  
Motomi Hotta,Wako Yoshihisa,Takahiro Uno,Takahito Itoh,Masataka Kubo
- 2Pa095 Comparison of ammonia gas sensing characteristics of polyaniline doped with organic acids  
Fadhilil Muhammad,Tokiro Kitagata,Hajime Yagi,Masanobu Matsuguchi
- 2Pb096 Synthesis and magnetic property of bis-phenoxy substituted poly(anthryleneethynylene) linked to tetrahedral core  
Takahiro Sato,Masahiro Teraguchi,Toshiki Aoki,Takashi Kaneko
- 2Pa097 Synthesis and emission color tuning of dithienoarsole-containing conjugated compounds  
Ikuo Kawashima,Chieko Yamazawa,Susumu Tanaka,Hiroaki Imoto,Kensuke Naka
- 2Pb098 Introduction of sulfonic acid group into P (EO / PO) having allyl group in side chain and preparation and evaluation of solid electrolyte for lithium ion secondary battery  
Hiroataka Awata,Keiji Yamashita,Yusuke Itiki
- 2Pa099 Stochastic resonance phenomenon of synapse-inspired ferroelectric field effect transistor  
Ayumi Matsuoka,Yoshiharu Suzuki,Naoki Asakawa
- 2Pb100 Synthesis of self-doped water-soluble highly conducting polymers  
Hirokazu Yano,Kazuki Kudo,Hidenori Okuzaki
- 2Pa101 Effect of melt and solution electrospinning on the formation and structure of poly(vinylidene fluoride) fibers  
Hanako Asai,Marina Kikuchi,Koji Nakane
- 2Pb102 Poly(vinylidene sulfone): Redox at Negative Potential and All-Organic Batteries  
Koki Oka,Ryo Kato,Kenichi Oyaizu,Hiroyuki Nishide
- 2Pa103 Noncovalent formulation of reduced graphene oxide/polyaniline hybrids for enhanced pseudocapacitance performance  
Jongyeap Park,Binhee Kwon,Woojun Jeong,Yujin Choi,Ari Chae,Seongho Jo,Geumbi Jeong,Insick In
- 2Pb104 Thermoelectric property of P3HT nanofiber thick mat by freeze-dry processing  
Naoki OKADA,Shinji KANEHASHI,Takeshi SHIMOMURA
- 2Pa105 Preparation and carrier transport characteristics of P3HT nanofiber / block copolymer composite film  
Takanori GOTO,Shinji KANEHASHI,Takeshi SHIMOMURA

#### **D. BIOPOLYMERS AND BIORELATED POLYMERS**

- 2Pa107 Synthesis of lysine based-carbon quantum dots through simple microwave treatment  
Binhee Kwon,Jongyeap Park,Woojun Jeong,Seongho Jo,Ari Chae,Yujin Choi,Geumbi Jeong,Insick In
- 2Pb108 Creation of Artificial Viral Capsids decorated with Antigens  
Masashi Yoshida,Junpei Ota,Hiroshi Inaba,Kazunori Matsuura
- 2Pa109 Construction of Cell Penetrating Artificial Viral Capsid Encapsulated DNA through Disulfide Bond  
Yuki Sato,Yoko Nakamura,Seiya Fujita,Hiroshi Inaba,Kazunori Matsuura
- 2Pb110 Synthesis of cyclic arylopeptoid tetramers and their dynamic conformational property  
Masahide Hayakawa,Ayaka Ohsawa,Hiroshi Katagiri,Masato Ikeda
- 2Pa111 Control of cell adhesion with nanoparticles consisting of egg white proteins.  
Daiki Togawa,Tomonori Waku,Naoki Tanaka
- 2Pb112 Reconstitution of zinc protoporphyrin IX with maltose binding protein fused cytochrome b and its characterization  
Yoko Kondo,Masaharu Kondo,Masaki Ihara,Takehisa Dewa
- 2Pa113 Investigation of molecular mechanism of the PG-surfactants to exhibit antibacterial activity  
Ryosuke Kimura,Shinya Ohno,Yuma Hayashi,Atsuhsi Miyagawa,Hatsuo Yamamura,Toshihisa Mizuno

- 2Pa115 Evaluation of biological activity of split intein expressed onto cell membrane surface by fusing it in CD151  
Maiko Tomita, Akinobu Nakamura, Tsuyoshi Takahashi, Shinya Tsukiji, Toshihisa Mizuno
- 2Pb116 Construction and evaluation of the gel fibers, encapsulating membrane protein at the inside, by using the chemically reactive solubilization surfactants and polymer crosslinking agents  
Aki Taniguchi, Tomoyasu Noji, Keisuke Kawakami, Takehisa Dewa, Nobuo Kamiya, Shigeru Ito, Toshihisa Mizuno
- 2Pa117 Preparation of Monoclonal Antibodies against an Organic Catalyst with Boron-containing Heterocycle Structure  
Takuma Adachi, Hidetoshi Noda, Masakatsu Shibasaki, Naoya Kumagai, Hiroyasu Yamaguchi
- 2Pb118 Development of lipid-bilayer coated particle for solid-phase membrane protein synthesis  
Yuki Ujihira, Mitsuru Ando, Yoshihiro Sasaki, Kazunari Akiyoshi
- 2Pa119 Interaction between Orphenadrine and Human Serum Albumin  
Masami Tanaka, Keiji Minagawa, Yasushi Imada, Yukihiko Arakawa
- 2Pb120 NMR study of the recombinant spider silk protein  
Yu Suzuki, Takahiro Yamamoto, Yugo Tasei, Takahiro Sato, Junichi Sugahara, Tetsuo Asakura

Presentation Time

<c = 13:20~14:00>

<d = 14:00~14:40>

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

- 2Pc001 Study on simple synthesis of polyrotaxane end capped by Diels-Alder reaction  
Masaya Watanabe, Masatoshi Kidowaki, Kohzo Ito
- 2Pd002 synthesis of cyclic block copolymer initiated by a mutually threaded [2]rotaxane dimer  
Gouta Aibara, Tadashi Tsukamoto, Daisuke Aoki, Toshikazu Takata
- 2Pc003 Facile synthesis of end-reactive polyrotaxanes by modulating terminal bulkiness of an axle polymer  
Atsushi Tamura, Asato Tonegawa, Nobuhiko Yui
- 2Pd004 Construction of Movable Cross-Linked Poly(ethylene oxide) Gel by Using Thiol-Ene Reaction  
Seiya Tsuda, Takahiro Uno, Masataka Kubo, Takahito Itoh
- 2Pc005 Synthesis and Property of Soluble Polycyclopentadithiophene  
Yuta Manba, Takahiro Uno, Takahito Itoh, Masataka Kubo
- 2Pd006 Synthesis of Block Copolymers Possessing a Dense Triazole Block and Their Unanticipated Fluorescence Properties  
Yanqiong Yang, Asami Mori, Akihito Hashidzume
- 2Pc007 Synthesis and secondary structure of poly(*m*-phenylenevinylene) (mPPV) having phenylalanines  
Kayo Terada, Mime Kobayashi, Tsuyoshi Ando, Masao Tanihara
- 2Pd008 Solid-state Emissive Properties and Thermosensitive Behaviors of Azomethine Boron  
Shunsuke Ohtani, Masayuki Gon, Kazuo Tanaka, Yoshiki Chujo
- 2Pc009 Synthetic Study of Cyclic Oligo(*m*-phenylene ethynylene) under Polymerization Conditions by Means of Intramolecular Hydrogen Bonding between Amide Side Chains  
Hiroki Odaka, Kazuto Takaishi, Tomoyuki Ohishi, Akihiro Yokoyama
- 2Pd010 Synthesis and Evaluation of Four Coordinated Boron Ketoiminates with Spiro Structure  
Kazumasa Suenaga, Kazuo Tanaka, Yoshiki Chujo
- 2Pc011 Allene-Containing Cross-conjugated Polymers as Novel Reactive Polymers  
Toshio Koizumi, Nobuaki Tanimoto, Tsuyoshi Kameda, Shotaro Hayashi
- 2Pd012 Synthesis of Functional Polymer Thin Film Possessing Perpendicularly Oriented Nanocylinder Structures by Living Coordination Block Polymerization of Allene Derivatives Having Mesogenic Substituents  
Koyuki Sakai, Yusuke Hibi, Tomokazu Iyoda, Hiroki Nishiyama, Shinsuke Inagi, Ikuyoshi Tomita
- 2Pc013 Synthesis and Structure of Multinuclear Ferrocene Complex Bridged by Perfluorocyclopentene Unit  
Hiroki Fukumoto, Toshio Kubota

- 2Pd014 Synthetic Study of Cyclic Oligophenylenes under Polymerization Conditions by Means of Hydrogen Bonding between Glycine Side Chains  
Kaori Fujiwara, Kazuto Takaishi, Tomoyuki Ohishi, Akihiro Yokoyama
- 2Pc015 Synthetic Study of Poly(*m*-phenylene ethynylene)s with a Helical Conformation Induced by Hydrogen Bonds between Amide Side Chains  
Asami Nakajima, Kazuto Takaishi, Tomoyuki Ohishi, Akihiro Yokoyama
- 2Pd016 Synthesis of triblock copolymer of polyester and polystyrene by means of cross metathesis and radical polymerization  
Ryouichi Okabayashi, Yoshihiro Ohta, Tsutomu Yokozawa
- 2Pc017 Synthesis of poly(3-hexylthiophene)-*b*-poly(2-ethyl-2-oxazoline) and its self-assembly leading to preparation of organic-inorganic fusion materials  
Geng ZHANG, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 2Pd018 Precise Synthesis of Template Polymers Exhibiting Self-Assembling Behavior toward Controlled Assembly of Inorganic or Metal Nanoparticles  
Shintaro Araoka, Chisato Atsumi, Arihiro Kanazawa, Ayae Narutaki, Chikara Ohtsuki, Yuji Okada, Sadahito Aoshima
- 2Pc019 Precision synthesis of novel block copolymers consisting of polylactide and stimuli-responsive poly(vinyl ether)s  
Kazutoshi MISHIMA, Arihiro KANAZAWA, Sadahito AOSHIMA
- 2Pd020 Synthesis and Microphase-separated Structure of Poly(styrene-*block*-methyl methacrylate) Bearing Oligosaccharide at  $\omega$ -Chain End  
Kohei Yoshida, Ken Miyagi, Takuya Isono, Takuya Yamamoto, Kenji Tajima, Toshifumi Satoh
- 2Pc021 Synthesis of polymers based on completely and incompletely-condensed caged silsesquioxane diad derivatives  
Ryoichi Katoh, Hiroaki Imoto, Kensuke Naka
- 2Pd022 Photochemical properties of chemically functionalized lipophilic graphene quantum dots.  
Kairi Yamato, Kaho Suzuki, Ryo Sekiya, Takeharu Haino
- 2Pc023 Synthetic Study of Coronene Analogue via Aryne Derived from Cyclic Triamide of 4-(Alkylamino)-2-chlorobenzoic Acid  
Arisa Ishij, Tomoyuki Ohishi, Akihiro Yokoyama
- 2Pd024 Synthesis and Properties of Non-Natural Polypeptide bearing Various Arylene Units in the Main Chain and Substituents on the Side Chain  
Yuki Ishido, Naoya Kanbayashi, Taka-aki Okamura, Kiyotaka Onitsuka
- 2Pc025 Synthesis and self-organization of zwitterionic block copolymers showing chiroptical and thermoresponsive properties by RAFT polymerization  
Ryosuke KANTO, Kazuhiro NAKABAYASHI, Hideharu MORI
- 2Pd026 Synthesis and characterization of poly(3,6-dihydroxycarbazole)s  
Fumihiko Aso, Hidehisa Kawashima, Masashi Kijima
- 2Pc027 Synthesis of polyacrylamide possessing tris(phenylisoxazolyl)benzenes  
Mai Sota, Toshiaki Ikeda, Takeharu Haino
- 2Pd028 Synthesis of Covalent Organic Nanotubes by Helix-to-Tube Method  
Michihisa Toya, Yuuta Yano, Kaho Maeda, Hideto Ito, Kenichiro Itami
- 2Pc031 Synthesis and Photoluminescence Properties of Aluminum Diiminate Complexes Bearing Various Kinds of Substituents  
Shunichiro Ito, Kazuo Tanaka, Yoshiki Chujo
- 2Pd032 Elucidation of Relationships between Solid-state Photophysical Properties and Crystal Structures of Boron Diiminates Containing Aromatic Substituents  
Ryoji Himeno, Shunichiro Ito, Kazuo Tanaka, Yoshiki Chujo
- 2Pc033 Synthetic Study of Organogermanium Polymer Drug Analogues  
Daiki Toumori, Hiroki Tanimoto, Kiyomi Kakiuchi

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

- 2Pc035 Preparation of raspberry-like hybrid particles by heterocoagulation between nickel-plated particles and polymer particles carrying phosphonium groups  
Takumi Chikazawa, Tomonao Naruhashi, Michinari Kohri, Tatsuo Taniguchi, Keiki Kishikawa



- 2Pd036 Surface modification of porous polydivinylbenzene particle by thiol-ene click reaction and atom transfer radical polymerization  
Arisa Yashiro,Tatsuo Taniguchi,Michinari Kohri,Keiki Kishikawa
- 2Pc037 Preparation of polymer particles hybridized with magnetic nanoparticles by using amphiphilic block polymers as a surfactant  
Sadatoshi Heiguchi,Tatsuo Taniguchi,Michinari Kohri,Keiki Kishikawa
- 2Pd038 Preparation of structural color materials based on ellipsoidal melanin-like particles  
Yuki Tamai,Ayaka Kawamura,Michinari Kohri,Syuji Fujii,Yoshinobu Nakamura,Naozumi Teramoto,Mitsuhiro Shibata,Tatsuo Taniguchi,Keiki Kishikawa
- 2Pc039 Shell structure control of chitosan/calcium carbonate core-shell type composite microparticles fabricated via self-mineralization process  
Izuka Nishii,Shokyoku Kanaoka,Satoshi Tanimoto
- 2Pd040 Synthesis and Particle Size Control of Poly(N-vinyl carbazole) Particles by Dispersion Polymerization in Non-polar Medium  
Naohiro Kobayashi,Moriya Kikuchi,Seigou Kawaguchi
- 2Pc041 Preparation and Characterization of DNA-conjugated Polymer Micelle Cross-linked by Photodimerization  
Yuya Morita,Masahiro Fujita,Mizuo Maeda
- 2Pd042 Preparation of Fluorescent Gold Nanoclusters using Poly(N-isopropylacrylamide)-DNA copolymer  
Takafumi Sako,Masahiro Fujita,Mizuo Maeda
- 2Pc043 Odd-Even Effect of Bicomponent Blend in Isobutenyl Compounds  
Yoshihiro Kikkawa,Seiji Tsuzuki,Kazuhisa Hiratani
- 2Pd044 Fabrication of Nano-Line patterns composed of Organic / Inorganic Nano-Hybrid on the Substrate.  
Kanta Fujiwara,Airi Yajima,Takatoshi Kinoshita,Masahiro Higuchi
- 2Pc045 Photoinduced Solid-Liquid Phase Transition and Motion of Azobenzene Crystals  
Yasuo Norikane
- 2Pd046 2-D self-assembly of PEGylated  $\alpha$ -helical peptides based on the secondary structural control on the solid surface  
Yosuke Oishi,Masayoshi Tanaka
- 2Pc047 Nanoparticle assembly via phase-separated thin films of biomimetic block copolymers containing catechol groups  
Hideaki Komiyama,Daisuke Hojo,Tadafumi Adschiri,Hiroshi Yabu
- 2Pd048 Investigation of isolated polymer patterning without residual film using soft imprinting  
Jun Ando,Takashi Fukuda,Akira Emoto
- 2Pc049 Assembly State Control of Cerium Oxide Nanoparticles through High-density Polymer Brush Immobilization  
Yuko Konishi,Miko Nishibori,Kazutaka Kamitani,Ayumi Hamada,Tomoyasu Hirai,Ken Kojio,Atushi Takahara
- 2Pd050 Preparation of amylose nanocapsules and examination of their one-dimensional fusion behavior.  
Masahiro Norikuni,Masashi Wada,Toshiyuki Kida
- 2Pc051 Ring Arrays of Gold Nanoparticles Aligned at Interfaces of Polymer Janus Particles  
Yutaro Hirai,Hiroshi Yabu
- 2Pd052 Facile preparation of monodisperse cylindrical polystyrene particles  
Wei Li,Toyoko Suzuki,Hideto Minami
- 2Pc053 Preparation of Cellulose/Silver Composite Particles  
Yuki Fujii,Taro Omura,Kaori Imagawa,Toyoko Suzuki,Hideto Minami
- 2Pd054 Temperature responsive properties of oligo(ethylene glycol)-modified polyrotaxanes and the effect of the chemical structure of tethered chains.  
Moe OHASHI,Atsushi TAMURA,Nobuhiko YUI

### C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 2Pd056 Formation of Molecular Recognition Sites in Liquid Crystalline Polymer Films and Regulation of Molecular Recognition by Their Structural Change  
Takato Senzaki, Akifumi Kawamura, Takashi Miyata
- 2Pc057 Synthesis of (NIPAAm-co-Guanidino NIPAAm) and interaction with DNA  
Sei Kaneda, Toru Hoshi, Takao Aoyagi
- 2Pd058 Volume changes by pH of chemically crosslinked hydrogels consisting of multiple polysaccharide chains  
Yuusuke Ishikawa, Seiya Ishihara, Yuna Ikeda, Yuuichi Kadota, Hideyuki Itagaki
- 2Pc059 Synthesis of azobenzene mesogen modified polyrotaxane and physical property change due to spacer length  
Kensuke Katsuyama, Masatoshi Kidowaki, Kohzo Ito, Yuki Hayashi
- 2Pd060 Synthesis and surface modification of photodegradable silane coupling agents having POSS moieties  
Yuta Ono, Koki Kurita, Jun Nakajima, Noriko Chikaraishi, Kazuo Yamaguchi
- 2Pc061 Synthesis of photoresponsive adhesive by azobenzene elastomer using polyrotaxane as crosslinker  
Ryo Shishiura, Masatoshi Kidowaki, Haruhisa Akiyama, Yoko Matsuzawa, Kohzo Ito, Yuki Hayashi
- 2Pd062 Preparation of Thermoplastic Polyester elastomers including Bond Exchangeable Dynamic cross-links  
Ryoto Yano, Mikihiro Hayashi, Akinori Takasu
- 2Pc063 Preparation of biodegradable elastomers via radical induced thiol-ene reaction  
Kosuke Fujimori, Junji Watanabe, Yasuhiko Iwasaki
- 2Pd064 Encapsulation of Lactic Acid Derivatives by an Anthracene-based Coordination Capsule through CH- $\pi$  Interactions  
Shunsuke Kusaba, Masahiro Yamashina, Michito Yoshizawa, Munetaka Akita
- 2Pc065 Synthesis and phase transition behavior of novel liquid crystalline polymers with alkylthio-containing rod-like molecules in the side chains  
Yuki Arakawa, Hideto Tsuji
- 2Pd066 Mechanical property and stimuli-responsiveness of gel network based on topological cross-link of rotaxane  
Yuki Hayashi, Yoshinori Takashima, Akira Harada, Hiroyasu Yamaguchi
- 2Pc067 Self-assembling behavior of two-component systems based on amine derivatives  
Kazuhiro Yabuuchi, Yoshihiro Fukao, Takuya Senda, Takaki Hayashi
- 2Pd068 Development of actuator using nanofiber mats  
Tomotaka Okumura, Shinya Kato, Hanako Asai, Koji Nakane
- 2Pc069 Synthesis and Functionalization of Polyaspartates Comprising Reactive Side Chains  
Ryohei Hitomi, Hidemine Furuya
- 2Pd070 Acylation of porous tri(ethylene glycol) monomethyl acrylate-co-2-hydroxyethyl acrylate gels and the bending behaviour of the obtained gels  
Takashi Iizawa, Makoto Kanemitsu
- 2Pc071 Stimuli-responsive gel utilizing interaction between single-tailed phospholipid azobenzene vesicle and chitosan  
Makoto Uchida, Sunnam Kim, Tomonari Ogata, Thuyoshi Fukaminato, Haruhisa Akiyama, Kiyoshi Kanie, Nobuyuki Tamaoki, Atsushi Muramatsu, Seiji Kurihara
- 2Pd072 Formation of Redox-Active Supramolecular Gel by Cyclohexanediamine Derivative and its Electrochemical Properties  
Rieka Ichinoi, Yoshito Sasada, Kenichi Oyaizu, Hiroyuki Nishide
- 2Pc073 Synthesis and characterization of room temperature fluorescent liquid compounds having stimuli-response  
Yuika Sato, Kyousuke Isoda
- 2Pd074 Effect of dangling chain incorporation into ABA triblock copolymer based elastomers with photo cross-linkable A domains  
Isamu Kawarazaki, Mikihiro Hayashi, Akinori Takasu
- 2Pc075 Preparation of thermo- and redox-responsive polymers composed of three-armed

- oligo(ethylene glycol)  
Hidenari Kayano, Taka-Aki Asoh, Ryo Ishihara, Akihiko Kikuchi
- 2Pd076 Self-healing properties of a supramolecular hydrogel consisting of polyrotaxane cross-linked by host-guest interactions.  
Yuichiro Kobayashi, Yoshinori Takashima, Hiroyasu Yamaguchi, Akira Harada
- 2Pc077 Biocompatibility of Supramolecular Hydrogel Containing Inclusion Complex of beta-cyclodextrin with Adamantine as Cross-linking Point.  
Yuichiro Kobayashi, Yoshinori Takashima, Akira Harada
- 2Pd078 Polymer Chain Scission Induced Chemical Reactions: A Novel Aspect of Double Network Gels  
Takahiro Matsuda, Runa Kawakami, Ryo Namba, Tasuku Nakajima, Jian Ping Gong
- 2Pc079 Measurement of Ionic Conductivity of Slide-ring Gel Swollen with Electrolyte containing the magnesium ion.  
Haruka Nishino, Shinji Kanehashi, Koichi Mayumi, Yoichi Tominaga, Takeshi Shimomura, Kohzo Ito
- 2Pd080 Evaluation of physical properties of slide-ring gel containing electrolyte  
Moe OKADA, Shinji KANEHASHI, Koichi MAYUMI, Yoichi TOMINAGA, Takeshi SHIMOMURA, Kohzo ITO
- 2Pc081 Design of thermoresponsive ionic liquid gels for protein adsorption.  
Kenichiro Hama, Akiyoshi Okafuji, Hiroyuki Ohno, Nobuhumi Nakamura
- 2Pd082 Preparation of Polycaprolactone-Based Membrane with Thermal and Photo-Responsiv Properties  
Misuzu Sato, Toru Hoshi, Takao Aoyagi
- 2Pc083 Preparation and characterization of boronate-functionalized polymer aimed at pyrophosphate detection  
Keiichiro Awaji, Daisuke Iizuka, Tatsuro Goda, Toru Hoshi, Takao Aoyagi, Akira Matsumoto, Yuji Miyahara
- 2Pd084 Synthesis and physical property of photoresponsive polyrotaxane modified with side-on type azobenzene mesogen  
Yu Takita, Masatoshi Kidowaki, Kohzo Ito, Yuki Hayashi
- 2Pc085 White-Color Photoluminescence from Single Polymer Controlled by Aggregated Structure of Liquid-Crystalline Luminophores  
Fumika Mitsuhashi, Osama Younis, Osamu Tsutsumi
- 2Pd086 Synthesis and Functionalization of Liquid Crystalline Oligoaniline Derivatives  
serena Minami, Tatuya Nishimura, Kenta Ishibashi, Bartolome Soberats, Masafumi Yoshio, Takashi kato
- 2Pc087 Temperature-responsive behavior of polyoxazoline copolymer  
Rikuri Izumo, Shinjiro Machida, Noriaki Ikeda
- 2Pd088 Polyplex formation and stimuli-responsive self-organization between amino acid-based block copolymers and DNA  
Ryosuke KANTO, Kazuhiro NKABAYASHI, Hiroyuki FURUSAWA, Hideharu MORI
- 2Pc089 Design of self-healable polymer material driven by charge transfer interaction for bioapplication  
Hidekazu Nakajima, keiichi Imato, Naoya Takeda
- 2Pd090 A mechanically anisotropic hydrogel with ultralarge electrostatic repulsion  
Koki Sano, Yasuo Ebina, Takayoshi Sasaki, Yasuhiro Ishida, Takuzo Aida
- 2Pc091 preparation and thermal behaviors of one-by-one-chain-tethered sliding graft copolymers with different lengths of PEG side chains  
saki morimoto, yasuhiko kohsaka, jun araki
- 2Pd092 Creation Polymer with Having Functional Group which Collecting Surplus Materials in Blood  
Daiki Hagiwara, Toru Hoshi, Takao Aoyagi
- 2Pc093 Analysis of high thermal conductivity mechanism of the phenyl benzoate twin-mesogen epoxy polymers with alkyl chain length of odd number  
Yuzo Itoh, Yuta Abe, Tadatomo Kawai
- 2Pd094 Analysis of high thermal conductivity mechanism of 2,7-naphthalene benzoate twin

mesogen epoxy polymer that have alkyl chain length 4  
Yuzo Itoh,Kei Nakahira,Tadatomo Kawai

### **S16. Design and application of structure and function of bio/polymers by designing molecular interaction**

- 2Pd096 Release behavior of model drugs from DNA quadruplex gel  
Kota Sakamoto,Kazuki Fukushima,Shizuma Tanaka,Kenta Wakabayashi,Shinsuke Yukami,Akinori Kuzuya,Yuichi Ohya
- 2Pc097 Synthesis of polyfluorene having cationic side chain and biomolecules recognition (II) - Nucleobase selectivity and dependence of chain length -  
Tsubasa Sato,Masahiro Hujita,Yuko Takeoka,Masahiro Rikukawa
- 2Pd098 Construction of artificial viral capsid bearing coiled-coil structure on the surface  
Seiya Fujita,Kazunori Matsuura
- 2Pc099 A peptide medicine that inhibits immunoactivating property of IgG  
Takeshi Mori,Koichi Sasaki,Yoshiki Miyashita,Akihiro Kishimura,Yoshiki Katayama,Minoru Harada
- 2Pd100 Fabrication of Porous Nanosheets and Their Application to Live Imaging Tool for Floating Cells  
Takuto Aoki,Hong Zhang,Yosuke Okamura
- 2Pc101 Lipid bilayer morphological change induced by peptide/cationic polymer complex  
Satomi Azumai,Takuro Ochiai,Wakako Sakamoto,Naohiko Shimada,Atsushi Maruyama
- 2Pd102 Preparation of ovalbumin nanoparticles with guanidine-terminated PAMAM dendrimer for control of cell adhesion  
Naoya Morimoto,Chie Kojima,Tomonori Waku,Naoki Tanaka
- 2Pc103 Surface Modification by Photoreactive MPC Polymers which change the conformation in aqueous solution like biomolecules  
Kazushi Tsuji,Kyoko Fukazawa,Yuuki Inoue,Kazuhiko Ishihara

### **D. BIOPOLYMERS AND BIORELATED POLYMERS**

- 2Pd106 Effect of oxacids on the water-holding ability of starch gels  
Yuto Hoshino,Hiroshi Itoh,Atsushi Kobayashi
- 2Pc107 Reinforcement of sulfur-vulcanized natural rubber using cellulose nanofibers  
Ryuji HIRASE,Asahiro NAGATANI
- 2Pd108 Morphological Varieties of Supra-Polysaccharides, Sacran in Drying Process  
Kulisara Budpud,Kosuke Okeyoshi,Maiko Okajima,Tatsuo Kaneko
- 2Pc109 Preparation and Characterization of Calcium Alginate Fibers Coated with Polysaccharide Polyion Complexes  
Hiroki Morizumi,Kazutoshi Iijima,Mineo Hashizume
- 2Pd110 In Situ Preparation of Cell-laden Polysaccharide Hollow Fibers Using Microfluidic Techniques  
Seiko Ichikawa,Shun Ohyama,Kazutoshi Iijima,Shohei Ishikawa,Hidenori Otsuka,Mineo Hashizume
- 2Pc111 Gelation and structural formation of  $\alpha$ -1,4 glucan and  $\beta$ -1,3 glucan by in situ neutralization  
Kyoko Yamamoto,Shiho Suzuki,Shinichi Kitamura,Yoshiaki Yuguchi
- 2Pd112 Preparation and physical properties of Phosphorylated polysaccharides gel  
Kohei Sadari,Takumi Okihara
- 2Pc113 Design and function analysis of nucleic acid-clipping nanogels  
Hirokazu Iwamoto,Shinichi Sawada,yoshihiro Sasaki,kazunari Akiyoshi
- 2Pd114 Partition phenomenon of supra polysaccharide: Orientation evaluation of the membrane formation on solid-gas-liquid interface.  
Takeshi Shinhama,Kosuke Okeyoshi,Maiko Okajima,Tatsuo Kaneko
- 2Pc115 Synthesis and Evaluation of Cellulose Gels with Boronic Acid Derivatives (IV) -Effect of Anion Species on Swelling Properties-  
Keigo Ishii,Yuko Takeoka,Masahiro Rikukawa,Masahiro Fujita
- 2Pd116 Fabrication of antigen-modified hyaluronic acid aimed for improvement of cancer immune effect

Atsushi Moritaka, Kazuo Sakurai, Shinichi Mochizuki

- 2Pc117 Eledtrophoretic deposition (EPD) of lectin in the presence of new glycopolymers aiming at detection of sugar-protein interactions  
Tomomi Komura, Akinori Takasu, Mikihiro Hayashi
- 2Pd118 Glycopolymer preparation by post-polymerization modification  
Tomohiro Fukuda
- 2Pc119 Study of Higher Ordered Structure of Biodegradable Polymer by Terahertz and Low-Frequency Raman Spectroscopies  
Dian Marlina, Harumi Sato
- 2Pd120 Design of glycopolymers carrying sialyllactoses and evaluation of the interaction against influenza virus  
Masanori Nagao, Akane Kubo, Yurina Fujiwara, Teruhiko Matsubara, Yu Hoshino, Toshinori Sato, Yoshiko Miura

Presentation Time

<e = 15:20~16:00>

<f = 16:00~16:40>

### **S1. Development of Integrated Functions via Organization of Element-Block Polymers**

- 2Pe001 Modified synthesis and properties of homoditopic bisresorcinarenes  
Daisuke Shimoyama, Toshiaki Ikeda, Ryo Sekiya, Takeharu Haino
- 2Pf002 Chemical Functionalization of Nanographenes and their Properties  
Ryo Sekiya, Yuichiro Uemura, Kaho Suzuki, Kairi Yamato, Takeharu Haino
- 2Pe003 Development of Novel Graft Copolymer with Self-Assembled Capsule Possessing Polymer Side Chains  
Natsumi Nitta, Mei Takatsuka, Yuta Tsunoda, Takeharu Haino
- 2Pf004 Helical organization of porphyrin supramolecular network polymers cross-linked by chiral bispyridine  
Kei Maruyama, Kouhei Nadamoto, Toshiaki Ikeda, Takeharu Haino
- 2Pe005 Selective Adsorption of hexagonal columnar structure based on calix[4]arene  
Yutaro Yamasaki, Ryo Sekiya, Takeharu Haino
- 2Pf006 Preparation of new element block polymer by connecting inorganic nanosheets  
Rei Chisoku, Mako Honda, Risa Iwasaki, Naokazu Idota, Yoshiyuki Sugahara
- 2Pe007 Preparation of hydrogels using cyclotetrasiloxane and POSSs containing polymerizable groups as multifunctional cross-linkers  
Makoto Yanagie, Yoshiro Kaneko
- 2Pf008 Synthesis and properties of new silicon nanosheets with electron-accepting groups on the surface  
Yuki Tanaka, Joji Ohshita, Masataka Ohashi, Hideyuki Nakano
- 2Pe009 Synthesis and semi-conducting properties of dithienogermole-containing polythiophenes  
Rizumu Sagisaka, Yohei Adachi, Joji Ohshita, Yousuke Ooyama, Makoto Nakashima, Yoshito Kunugi
- 2Pf010 Synthesis and singlet oxygen generation properties of spiro-fused germole derivatives  
Yuya Hayashi, Toshiaki Enoki, Yousuke Ooyama, Joji Ohshita
- 2Pe011 Synthesis of dithienogermole-containing polysilsesquioxane films and their sensing properties toward nitroaromatic compounds  
Kenta Shigeoka, Joji Ohshita, Yousuke Ooyama, Masashi Nakamura
- 2Pf012 Synthesis, properties, and copper-complex formation of disilane-bridged bipyridine derivatives.  
Takashi Kai, Joji Ohshita, Masashi Nakamura, Seiji Watase
- 2Pe013 Effect of Ligand on Sensitized Emission of Europium Complex Hybridized to Polysilsesquioxane  
Masashi NAKAMURA, Ryohei ONO, Koji MITAMURA, Hiroyuki ENOMOTO, Kimihiro MATSUKAWA, Seiji WATASE

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

- 2Pe015 ESA-CF synthesis and grafting application of an azide-functional kyklo-telechelic poly(THF) having anthracene-dimer as a linking unit.  
Shuang Shuang Zhang, Wei Zhang, Xiu Lin Zhu, Takuya Yamamoto, Yasuyuki Tezuka
- 2Pf016 Construction of a K3,3 graph polymer topology by the ESA-CF process with a hexafunctional dendritic telechelic precursor  
Yu Yanagisawa, Toshiyuki Aoyanagi, Takuya Yamamoto, Yasuyuki Tezuka
- 2Pe017 Synthesis of Star-shaped Polymers Having Aggregation-induced Emission Properties by Living Coordination Polymerization of Allene Derivatives and Their Application to Fluorescence Chemosensors  
Tamaki Matsuo, Yoshiyuki Oguchi, Takeshi Wakiya, Tadashi Iwamoto, Hiroki Nishiyama, Shinsuke Inagi, Ikuyoshi Tomita
- 2Pf018 Precise synthesis of star-like polymer particles by self-assembly induced RAFT polymerization and their molecular characterization  
Keita Ohba, Haruka Yamada, Moriya Kikuchi, Seigou Kawaguchi
- 2Pe019 Assembling Behavior and Rheological Properties of Three-Arm Star Polymer Featuring Tripodal Triptycene Junctions with Various Polymer Chains  
Hibiki Ogiwara, Fumitaka Ishiwari, Yukihiko Yamashita, Tadahiro Kimura, Masatoshi Tokita, Takanori Fukushima
- 2Pf020 Exclusive dimetalation at chain end of polystyrene and grafting from the macroinitiator  
Tajima Ryosuke, Kaoru Adachi, Yasuhisa Tsukahara
- 2Pe021 Synthesis and phase separation of block copolymers consisting of hyperbranched polyamide or linear polyamide and polystyrene  
Kenta HOKA, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 2Pf022 Synthesis of cyclic polyphenylene grafted with vinyl polymer  
Taisuke KIMURA, Hajime SUGITA, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 2Pe023 Catalyst-transfer Kumada-Tamao coupling polymerization of thienylene-phenylene dibromo AB<sub>2</sub> Grignard monomer  
Toshiki HIROTA, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 2Pf024 Synthesis of Hydrophobic/Hydrophilic Heteroarm Star Polymers by RAFT Polymerization and Their Properties  
Hiroki Ooishi, Saya Katano, Shohei Ida, Satoshi Tanimoto, Shokyoku Kanaoka
- 2Pe025 Facile synthesis of supramolecular A8B2 star-shaped copolymer via guest complexation of self-assembled capsule  
Natsumi Nitta, Ryo Sekiya, Takeharu Haino
- 2Pf026 Synthesis of star-shaped polypropylene from chain-end modified stereoregular polypropylene with boronic acid  
Naoki Tonoko, Ryo Tanaka, Yuushou Nakayama, Takeshi Shiono
- 2Pe027 Unusual dehydration property of double hydrophilic tooth-brush like block copolymers possessing PNIPAM block  
Haruka Takebuchi, Wenli Wang, Katsuya Kaikake, Ren-Hua Jin
- 2Pf028 Effects of RAFT agent on simultaneous radiation grafting of chloromethylstyrene onto ETFE films  
Jinhua Chen, Natsuki Hayashi, Noriaki Seko
- 2Pe029 Graft polymerization of aromatic compounds onto cellulose  
Keita Morimoto
- 2Pf030 Structural control of branch density and branch length comb-like polymer via living anionic polymerization  
Shoki Nakano, Kaoru Adachi, Yasuhisa Tsukahara
- 2Pe031 Tooth-brush like Copolymers possessing polyethyleneimine brush and polymethacrylic acid handle: Synthesis and characterization  
Yoshito Inoue, Wen-Li Wang, Katsuya Kaikake, Ren-Hua Jin
- 2Pf032 Self-organization and templating function of comb-like polymers possessing amphiphilic diblock polymeric side chain  
Wenli Wang, Ren-Hua Jin
- 2Pe033 Efficient Polymer Grafting via Click Reaction Using Polymer Nitrile N-Oxide

Toyokazu Tsutsuba, Toshikazu Takata

- 2Pf034 Synthesis and Application of phosphine-branched dendrimers  
Hajime Fujinaga, Shingo Nakamura, Hidetoshi Ohta, Minoru Hayashi
- 2Pe035 Synthesis of Pom-Pom polymers by living anionic polymerization using metalation of triblock copolymer.  
Kenta Mori, Junki Fukuda, Kaoru Adachi, Yasuhisa Tsukahara
- 2Pf036 Synthesis of Hybrid Polymers Consisting of Peptide-Conjugated Molecules  
Soki SATO, Shinya TAKAOKA, Yu MIYAGI, Fumio SANDA
- 2Pe037 One-Pot Synthesis of Core-Shell Particles Using Polyvinyl Ethers as Steric Stabilizer  
Masahiro Sudo, Ayano Yoshida, Shinji Sugihara, Kazumasa Hirogaki, Yasushi Maeda
- 2Pf038 Synthesis and Properties of Stereoregular Poly( $\alpha$ -substituted acrylic acid) with Dodecyl Group  
Mana Nakamura, Takahiro Uno, Masataka Kubo, Takahito Itoh
- 2Pe039 Effect of mechanical properties on graft structure on rigid polyurethane by changeable side chains.  
Daisuke Aoki, Hiroharu Ajiro

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

- 2Pf042 Tensile-induced orientation of polymer chain studied by rheo-optical NIR spectroscopy  
Hideyuki Shinzawa, Junji Mizukado
- 2Pe043 Controlling Mechanism of Molecular Orientation in an Organic Semiconductor Thin Film Revealed by Using pMAIRS and GIXD  
Nobutaka Shioya, Takafumi Shimoaka, Richard Murdey, Kazuo Eda, Takeshi Hasegawa
- 2Pf044 Analysis of phase-separated structure in an elastomer thin films of ABA-type triblock copolymer by grazing-incidence small-angle X-ray scattering  
Eri Miura, Katsuhiko Yamamoto
- 2Pe045 Formation process and control of perpendicular cylinder structure of liquid crystalline block copolymer  
Motonori Komura
- 2Pf046 Macroscopic Single Arrangement of Perpendicular Cylinder Structure using Orientation Transition of Liquid Crystal  
Ayumu Tsuchiya, Motonori Komura
- 2Pe047 Morphology of microdomains in microphase-separated structures of star-shaped block copolymer thin films  
Satoshi Irie, Sayaka Okuda, Ayana Yamakawa, Takashi Sasaki, Tsuguto Imaeda, Ryoki Okunaga, Michio Urushisaki, Toshikazu Sakaguchi, Tamotsu Hashimoto
- 2Pf048 Electrical Properties Accompanied with Helix-sense Inversion of Surface-grafted Polyaspartate Thin Films  
Kazuho Hosokawa, Xiaobin Liang, Hidemine Furuya, Shinji Ando, Ken Nakajima
- 2Pe049 Piezoelectric Characteristics on the Surface of Shear Oriented Film for Polyaspartate Exhibiting the Helix-sense Inversion  
Yuki Orito, Hidemine Furuya, Yoshiro Tajitsu, Shinji Ando
- 2Pf050 Helix-sense inversion of polyaspartate grafted on silica nanoparticles  
Yosuke Mizuno, Hidemine Furuya, Paul S. Russo, Reiko Saito
- 2Pe051 Annealing effect on the dynamics in stacked PMMA thin films  
Megumi Ooe, Kohei Suzuki, Koji Fukao, Koichiro Sadakane, Norifumi Yamada
- 2Pf052 Structures and properties of dynamic polymer brushes with amphiphilic polyrotaxanes  
Kanta Yanagi, Norifumi Yamada, Kazuaki Kato, Kohzo Ito, Hideaki Yokoyama
- 2Pe053 Fabrication and structure transition of nanoporous block copolymer film with mixed organic solvents  
Mizuki Shiojima, Kohzo Ito, Hideaki Yokoyama
- 2Pf054 Formation and physical property of dynamic polymer brush  
Taihei Aoki, Hirokazu Tanoue, Norifumi Yamada, Kohzo Ito, Hideaki Yokoyama
- 2Pe055 Crystallization of poly(butylene succinate)-block-poly(ethylene oxide) immobilized on silicon substrates

- Risako Oka, Takayuki Ikehara, Toshiyuki Kataoka
- 2Pf056 Preparation and crystallization behavior of polyamide brushes on Si substrates  
Yuta Suzuki, Toshiyuki Kataoka, Takayuki Ikehara
- 2Pe057 Structural analysis of the structure of condensed aqueous solutions of a calixarene-derived surfactant  
Masataka Araki, Shota Fujii, Rintaro Takahashi, Kazuo Sakurai
- 2Pf058 Structural colors independent of background prepared by the assembly of melanin-like particles  
Shigeaki Yamazaki, Ayala Kawamura, Michinari Kohri, Tatsuo Taniguchi, Keiki Kishikawa
- 2Pe059 Salt concentration dependence of AC driven electroosmotic pump using porous polymer membrane  
Takumi Oho, Yasushi Okumura, Hiroki Higuchi, Hirotsugu Kikuchi
- 2Pf060 Investigation of Influential Factors of Preferred Lamellar Orientation of Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) in Thin Films  
Mami Goda, Masaki Tsutsumi, Shinichi Sakurai, Hideki Yamane, Hiroyasu Masunaga, Takaaki Hikima, Masaki Takata, Tomoyasu Hirai, Atsushi Takahara, Sono Sasaki
- 2Pe061 Stretching Properties of Main-Chain Polydomain Liquid Crystal Elastomers  
Asaka Takebe, Kenji Urayama
- 2Pf062 Dielectric relaxation and electrode polarization in imidazolium-based ionic liquid crystals  
Toshiharu Yamane, Koji Fukao
- 2Pe063 Design of Ionic Liquids toward Stabilization of Lipidic Cubic Matrices  
Takahiro Ichikawa, Saki Fujiwara, Rika Takeuchi, Hiroyuki Ohno
- 2Pf064 Polyurethanes with Anisotropic Orientational Structures and Their Applications  
Genichiro Shimada, Taiki Watanabe, Masanori Nata, Seiji Ujiie
- 2Pe065 Twisted Lamellar Microdomains Formed by Diblock Copolymers Comprising  $\alpha$ -Helix Polypeptide and Coil Segments  
Minh Anh Truong, Shiho Chiba, Junji Watanabe, Masatoshi Tokita
- 2Pf066 Macroscopic Mechanical Response of Discotic Liquid-Crystalline Columns  
Miki Kobayashi, Takashi Kajitani, Masaki Takata, Takanori Fukushima
- 2Pe067 Liquid-Crystalline Behavior and Complexation with Nanocarbons of Electron-Donating Hexasubstituted Sumanenes  
Ryo Komiya, Qiang Ding, Fumitaka Ishiwari, Yoshiaki Shoji, Takashi Kajitani, Hidehiro Sakurai, Takanori Fukushima

### C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 2Pf070 Studies on Photoelectrochemical Water Splitting Using RuO<sub>x</sub>/WO<sub>x</sub>/TiO<sub>2</sub> Nanotube Composite Electrodes.  
Yuta Hirata, Raman Vedarajan, Noriyoshi Matsumi
- 2Pe071 ZIF-8 embedded Functionalised Acetylene Black hybrid nanocomposites as efficient non precious metal catalysts for ORR  
Ankit Singh, Raman Vedarajan, Noriyoshi Matsumi
- 2Pf072 TiO<sub>2</sub> nanotubes/functionalised acetylene black composites decorated with Pt nano particles as electrocatalyst for ORR.  
Santhosh Bukka, Raman Vedarajan, Noriyoshi Matsumi
- 2Pe073 BIAN based electroactive polymer with defined redox centres as metal free electrocatalysts for fuel cells and Li air batteries  
Sai Gourang Patnaik, Raman Vedarajan, Noriyoshi Matsumi
- 2Pf074 Electrochemical properties of non-platinum catalysts obtained by pyrolysis of different metal-supported poly phthalocyanine derivatives  
Naoki Wakuzawa, Shota Shingai, Shun Miyata, Izuru Kobayashi, Nobukatsu Nemoto, Masaji Akimoto, Kazuto Umezu
- 2Pe075 Development of Nanostructured Liquid-Crystalline Electrolytes for Dye-Sensitized Solar Cells  
Yurika MIZUMURA, Daniel HOGBERG, Bartolome SOBERATS, Satoshi UCHIDA, Hiroshi SEGAWA, Takashi KATO
- 2Pf076 Synthesis and evaluation of diblock electrolytes (III) -Introduction of alkyl side chain-



Ikuma Sakamoto,Masahiro Fujita,Yuko Takeoka,Masahiro Rikukawa

- 2Pe077 Synthesis and Evaluation of Cationic Polyphenylenes having Phosphonium Groups (I)-Monomers Having Alkyl Phosphonium Salts-  
Tomohisa Oshima,Masahiro Fujita,Yuko Takeoka,Masahiro Rikukawa
- 2Pf078 Synthesis and Evaluation of Poly(phenylene)-Based Ionomers with  $\pi$ -Conjugated Unit (I) -Effect of Polythiophene Contents -  
Daiki Oka,Masahiro Fujita,Yuko Takeoka,Masahiro Rikukawa
- 2Pe079 Synthesis and Evaluation of Poly(phenylene) Electrolytes Having Alkyl Groups -Effect of Alkyl Chain Lengths-  
Yutaro Kitamoto,Masahiro Huzita,Yuko Takeoka,Masahiro Rikukawa
- 2Pf080 Preparation of conjugated polymeric materials cross-linked by host-guest Interaction and evaluation of its functions  
Hiroki Tamura,Yuichiro Kobayashi,Kengo Kayano,Yoshinori Takashima,Hiroyasu Yamaguchi,Akira Harada
- 2Pe081 Preparation of Polymer Electrolyte Based on Glycerol Ethoxylate for Rechargeable Mg-battery  
Shogo Okamura,Kazuhiro Yamabuki,Kenta Fujii,Masayuki Morita,Nobuko Yoshimoto
- 2Pf082 Development of Durable Aromatic Polyelectrolyte for Solid-alkaline Fuel Cells  
Ayaka Sakakibara,Shoji Miyanishi,Yuhei Oshiba,Hidenori Kuroki,Ikuyoshi Tomita,Takeo Yamaguchi
- 2Pe083 Electrochemical Properties of Hybrid Batteries Employing TEMPO-Substituted Polymers and Lithium Transition Metal Oxides  
Tomomi Masui,Hiroyuki Nishide,Kenichi Oyaizu
- 2Pf084 Synthesis of TEMPO and Anthraquinone-Containing Polymer Particles and these Application to Redox Flow Battery  
Shiori Noguchi,Hiroyuki Nishide,Kenichi Oyaizu
- 2Pe085 Development of Semiconducting Polymers Containing a Phenacene-Type Acceptor Unit and Its Application to Organic Solar Cells  
Shuto Hara,Hiroki Mori,Yasushi Nishihara
- 2Pf086 Synthesis and Photovoltaic Properties of Pyrenobisthiadiazole-Based Wide-Bandgap Semiconducting Polymers  
Chenan Wang,Ryosuke Takahashi,Hiroki Mori,Yasushi Nishihara
- 2Pe087 Preparation and characterization of poly(oxetane)-based electrolytes having sulfoxide as in its side chain  
Seiko Hirata,Ryansu Sai,Kazuhide Ueno,Hikomori Tsutsumi
- 2Pf088 Physical properties of proton exchange membranes comprising crystalline polymer and crosslinked amorphous networks  
Shogo Yaguchi,Takayuki Ikehara,Toshiyuki Kataoka
- 2Pe089 Facile synthesis of composite films of PEDOT and carbon nanotube and their thermoelectric properties  
Ichiro Imae,Lu Zhang,Yutaka Harima
- 2Pf090 Concentrated Electrolytes Based on Poly(ethylene carbonate)/Poly(trimethylene carbonate) Blends for Lithium-Ion Batteries  
Zhenguang Li,Ronnie Mogensen,Jonas Mindemark,Tim Bowden,Daniel Brandell,Yoichi Tominaga
- 2Pe091 Syntheses and physical properties of polyoxamides for binder application of LIB  
Ikue Motomura,Yuichi Tomi,Shuichi Maeda,Kazuhiro Yamabuki,Kanae Itaoka
- 2Pf092 Fabrication of semitransparent organic thin film solar cell with Ag nanowires as top electrode  
Yukika Asano,Atsushi Aoki
- 2Pe093 Synthesis of size controlled and systematic Pt clusters and characterization of these oxygen reduction reaction  
Juri Maekawa,Atsuya Harasawa,Nobuyuki Shimizu,Wataru Kurashige,Yuichi Negishi
- 2Pf094 Analysis of Ionomer Adsorption Phenomenon onto Pt/C in Fuel Cell Catalyst Ink  
Naoki Kitano,Ryosuke Jinnouchi,Kenji Kudo,Atsushi Kamiya,Naoki Hasegawa
- 2Pe095 Properties of Solid Polymer Electrolyte Using Poly(vinylidene crown ether)  
Tatsunori Tsutsumi,Takahiro Uno,Masataka Kubo,Takahito Itoh

## D. BIOPOLYMERS AND BIORELATED POLYMERS

- 2Pe097 Construction and Characterization of the DNA Aptamer Encapsulated Fibermats  
Koji Mizuno, Yuto Ozeki, Makito Iguchi, Akiko Obata, Toshihiro Kasuga, Toshihisa Mizuno
- 2Pf098 Development of siRNA delivery with functional glucan nanosphere  
Shigeo Takeda, Ruoshi Zhang, Shin-ichi Sawada, Yoshihiro Sasaki, Kazunari Akiyoshi
- 2Pe099 Give antibacterial property according to cationic functional group to hydrogel.  
Shibata Yuki, JianPing GONG, Takayuki Kurokawa, Tomoyasu Aizawa, Honglei GUO
- 2Pe101 Synthesis and conformational properties of periodic peptide sequences bearing unusual amino acid residues  
Hitomi Takenaka, Yoshihito Inai
- 2Pf102 Synthesis and structure of unusual amino acid-based helical backbones, and their potential for functionality  
Kouki Yuhara, Yoshihito Inai
- 2Pe103 Supramolecular aggregation and gelation of oligopeptides possessing aromatic group  
Keisuke WATANABE, Yoshihito INAI
- 2Pf104 A theoretical study on structural shapes and features of branched peptide molecules  
Yoshihito INAI
- 2Pe105 Conformational changes of template peptide induced by mineral formation  
Asuka Miyahara, Masahiro Higuchi
- 2Pf106 Fabrication of Inorganic coated Vesicles by Biomineralization for DDS Carriers  
Chiho Miyamaru, Mao Koide, Masahiro Higuchi
- 2Pe107 Development of artificial exosomes by proteoliposomes engineering  
Shuheng Yan, Mitsuru Ando, Yoshihiro Sasaki, Kazunari Akiyoshi
- 2Pf108 Reduction of C-reactive protein concentration with phospholipid polymer-immobilized magnetic nanoparticles  
Sana Iwasaki, Hideya Kawasaki, Yasuhiko Iwasaki
- 2Pe109 pH/Thermo Dual-responsive Diblock Polymers Composed of Poly(4-vinylpyridine) and Amino Acid-derived Vinyl Polymers  
Chikako Hirazumi, Nobuyuki Higashi, Tomoyuki Koga
- 2Pf110 Shape-Memory Hydrogels Composed of UCST-type Amino Acid-derived Vinyl Polymer  
Kotoha Tomimori, Anzu Nishimura, Nobuyuki Higashi, Tomoyuki Koga
- 2Pe111 Synthesis of porous silica by using collagen and their adsorption / desorption properties of VOC  
Satoru Dohshi, Yu Horiuchi, Masaya Matsuoka
- 2Pf112 Preparation of novel sulfobetaine polymers with upper critical solution temperature (UCST)  
Yoshifumi Oishi, Nobuyuki Morimoto, Masaya Yamamoto
- 2Pe113 Rearrangements by stretching of the superhydrophobic rubber surface microstructures  
Riku Tamura, Yuji Hrai, Masatsugu Shimomura, Yasutaka Matsuo, Takahiro Okamatsu, Toshihiko Arita
- 2Pf114 Preparation of Polycaprolactone Films with Positive Charge and Their Biomaterial Applications  
Kohei Iwamatsu, Koichiro Uto, Toru Hoshi, Takao Aoyagi
- 2Pe115 Synthesis and functionality of Chiral Polymers from oxazolines  
Yuma Umebara, Ren-Hua Jin
- 2Pf116 Reactivity control of catechol groups via stimuli-responsive reaction  
Saki Irie, Shigeaki Yamazaki, Kenshi Yanagimoto, Ayaka Kawamura, Michinari Kohri, Tatsuo Taniguchi, Keiki Kishikawa
- 2Pe117 Synthesis and Evaluation of Block Copolymers Containing Benzoxaborole (I) - Evaluation of Sugar Recognition Ability-  
Yuui Suzuki, Masahiro Fujita, Yuko Takeoka, Masahiro Rikukawa
- 2Pf118 Preparation of Stimuli-responsive Polymers with Molecular Recognition Sites and Their Recognize of Proteins That Undergo Conformational Changes  
Ryota Ozaki, Akifumi Kawamura, Takashi Miyata
- 2Pe119 Creation of three-way junction structures of polysaccharide in microflow device

Munenori Numata, Akira Kaneyoshi

- 2Pf120 The effect of crowding molecules on cell-cell attachment using single stranded DNA-poly(ethylene glycol)-lipid conjugates  
Jun Isobe, Yusuke Arima

**Fri. Sep 22**

Presentation Time

<a = 10:20~11:00>

<b = 11:00~11:40>

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

- 3Pa001 Precise synthesis of structurally Well-defined Graphene Nanoribbons by APEX Polymerization  
Yuuta Yano, Nobuhiko Mitoma, Wang Feijiu, Yuhei Miyauchi, Hideto Ito, Kenichiro Itami
- 3Pb002  $\pi$ -Conjugated Network Polymers based on Fluorescent Unit: Direct Arylation Synthesis and Their Properties  
Shotaro Hayashi, Yuki Togawa, Atsushi Asano, Shin-ichi Yamamoto, Toshio Koizumi
- 3Pa003 Direct Arylation Synthesis of Donor-Acceptor  $\pi$ -Conjugated Polymers having Asymmetric Thienoisindigo  
Kaoru Uegaki, Kazuhiro Nakabayashi, Kousei Miyakawa, Toshio Koizumi, Shotaro Hayashi
- 3Pb004 Synthesis of cyclic polymer by means of unstoichiometric Suzuki-Miyaura coupling polymerization and control over molecular weight and end-functional groups by cross metathesis of unsaturated cyclic polymer with functional alkenes  
Tsuyoshi NAMEKAWA, Yoshihiro OHTA, Tsutomu YOKOZAWA
- 3Pa005 Pd-Catalyzed Polycondensation of Benzoyl Chloride, 8-Aminoquinoline, and Aromatic Dihalides Through C-H Functionalization Process  
Akira Yamashita, Hiroki Nishiyama, Shinsuke Inagi, Ikuyoshi Tomita
- 3Pb006 Synthesis of polythiophene derivative bearing oligoisobutylene side chain  
Satoshi Miyane, Tomoya Higashihara
- 3Pa007 Synthesis and Copper(I)-Catalyzed Azide-Alkyne Cycloaddition Polymerization of N-Butyl-N-ethynyl-4-azidobenzenesulfonamide  
Tatsuya Harada, Akihito Hashidzume
- 3Pb008 Catalyst Transfer Chain-Growth Click Polymerization via Alkyne-Azide CuAAC Reaction  
Takuya NAKAMURA, Mineto UCHIYAMA, Kotaro SATO, Masami KAMIGAITO
- 3Pa009 Synthesis of Triazine-containing Polymer by Cyclotrimerization of Aromatic Nitriles and Their Thermal Properties  
Masahiro Komeda, Naoto Aoyagi, Takeshi Endo
- 3Pb010 Synthesis and properties of poly(silarylenesiloxane) derivatives based on dithienosilole moiety  
Hiroki Ajito, Ibuki Nishizawa, Shingo Morihira, Ryouto Mishima, Nobukatsu Nemoto
- 3Pa011 Fabrication of polyazomethine films by using bisaminopropylhexaisobutyl-substituted caged octasilsesquioxane.  
Shunichi Fujii, Hiroaki Imoto, Kensuke Naka
- 3Pb012 Preparation of polydimethylsiloxane/polyethoxysiloxane copolymers  
Izumi Nishikawa, Kazuki Yamamoto, Takahiro Gunji
- 3Pa013 Synthesis of sequence-regular copolymer composed of terephthalic acid, ethylene glycol and  $\gamma$ -aminobutyric acid  
Kazumasa Watanabe, Ryo Tanaka, Yuusyou Nakayama, Takeshi Shiono, Norioki Kawasaki, Naoko Yamano, Atsuyoshi Nakayama
- 3Pb014 Acyl triazole as an alternative monomer of acyl chloride toward halogen-free polyester synthesis  
Kazumasa Homma, ichiro Mori, Yasuhiro Kohsaka, Susumu Sugiyama, Yoshikazu Kimura
- 3Pa015 Polymerization utilizing conjugated substitution reaction of  $\alpha$ -(halomethyl)acryloyl group  
Takumi Miyazaki, Keito Hagiwara, Keiichiro Ito, Yasuhiro Kohsaka
- 3Pb016 Competitive reaction mechanism of ring-opening polymerization of glycidyl and alicyclic epoxy groups by thiol and amine  
Akio Takasugi, Reiko Saito

- 3Pa017 Synthesis of fused polyheteroacenes through Scholl reaction  
Takaaki Hirano, Koichiro Mikami, Eiichi Akiyama
- 3Pb018 Synthesis of linear and branched poly(ether) from 3,3,3',3'-tetramethyl-1,1'-spirobiindane-5,5',6,6'-tetraol and decafluorobiphenyl  
Hiromasa Sato, Yoshiyuki Oishi, Yuji Shibasaki
- 3Pa019 Functionalization of Whole Aromatic Polyimide Particles Using Aminoalkanol  
Yusuke Mizuno, Shinji Watanabe, Takeshi Namikoshi, Miki Murata, Yoshihito Kohari
- 3Pb020 Nonstoichiometric Friedel-Crafts polycondensation using 2,2'-dimethoxybiphenyl in superacid media  
Kazuya Matsumoto, Takayuki Ogawa, Mitsutoshi Jikei
- 3Pa021 Synthesis and structural properties of bio-based high performance polybenzazole type plastics  
Makoto Watanabe, Ali Md Asif, Tatsuo Kaneko
- 3Pb022 Preparation of Needle-like Crystals of Aromatic Poly(amide-imide)  
Kyomi Fujiwara, Hironori Atarashi, Shinichi Yamazaki, Kunio Kimura

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

- 3Pa025 Synthesis and mechanical properties of joint-linker type gels using polyaddition reaction of sugar alcohols and diisocyanate compounds  
Yuto Hosoi, Naofumi Naga
- 3Pb026 Synthesis and characterization of joint - linker type gels using hyperbranched polyol compounds  
Riku Arai, Naofumi Naga
- 3Pa027 Synthesis and mechanical properties of gels using polyaddition reaction of castor oil and diisocyanate compounds  
Shun Fujioka, Naofumi Naga
- 3Pb028 Synthesis and properties of joint-linker type gels and monoliths by Michael addition reaction of multifunctional amine and PEG diacrylate compounds  
Naofumi Naga, Daisuke Inose, Hassan Nageh, Tamaki Nakano
- 3Pa029 Study on network structures in isoprene rubber vulcanizates by synchrotron X-ray measurements  
Yuta Sakaki, Treethip Phakkeeree, Preeyanuch Junkong, Yuko Ikeda
- 3Pb030 Strain-Induced Crystallization of Guayule Natural Rubber under Cyclic Deformation  
Yuuki Matsushima, Treethip Phakkeeree, Preeyanuch Junkong, Yuko Ikeda
- 3Pa031 Characterization of Peroxide Cross-linked Isoprene Rubber by TD-NMR  
Yuji Tsujimoto, Kosuke Miyaji, Tomoyuki Sato, Yuko Ikeda
- 3Pb032 A scaling relation of UV intensity and gelation time in UV-induced photopolymerization of multi-functional monomers  
Hiroki Kondo, Kentaro Taki
- 3Pa033 Molecular Simulation of Polymer Gels: Effects of Polymerization Processes on the Structure and Mechanical Properties of Networks  
Kenta Osanai, Tsutomu Furuya, Tsuyoshi Koga
- 3Pb034 Fracture behavior of polymer networks with sliding junctions  
Takuya Kurimoto, Tsutomu Furuya, Tsuyoshi Koga
- 3Pa035 Molecular simulation of frictional behaviors of physical gels consisting of associating polymers  
Shinjiro Hayashi, Tsutomu Furuya, Tsuyoshi Koga
- 3Pb036 Molecular Simulation of Gelation of Associating Polymers: Competition between Intra- and Intermolecular Association  
Motoki Shibata, Tsutomu Furuya, Tsuyoshi Koga
- 3Pb038 Measurements of moisture contents in nylon 66 by near-infrared ray  
Tomohiro Deguchi
- 3Pa039 Formation mechanism of molecular daisy chain by modified cyclodextrins  
Haruna Shimomasu, Naohito Urakami
- 3Pb040 Induction and Inversion of Helical Chirality of a Foldamer Composed of Dithienyl Ketone and Benzene

Soichiro Koga, Syuichi Tani, Takuya Ogaki, Eisuke Ohta, Yasunori Matsui, Hiroshi Ikeda

- 3Pa041 Two-dimensional Growth of Crystalline Nanofiber Fabricated from Gemini-type Amphiphilic Diamide Derivative Inducing the Thixotropic Property  
Manami Iizuka, Yuma Moriya, Yuto Nakagawa, Eiichi Satou, Yuji Shibasaki, Atsuhiko Fujimori
- 3Pb042 Formation of inclusion complexes of various fullerene derivatives with a st-PMMA in a Langmuir monolayer  
Kounosuke Tanaka, Tatsufumi Nakazawa, Atsushi Narumi, Jiro Kumaki
- 3Pa043 Preparation of light-responsive micelles via polymerization-induced self-assembly  
Yuki Ohara, Kazuhiko Ishihara, Shin-ichi Yusa
- 3Pb044 Structure of polyimide porous membrane on the process of multi solvent replacement method.  
Tsubasa Wakabayashi, Naoki Nishikawa, Hiroshi Sekiguchi, Ryoko Nakano, Shigeru Yao
- 3Pa045 Calix[4]arene based protein micellar structure analysis by SAXS measurement  
JI HA LEE, SHOTA FUJII, KAZUO SAKURAI
- 3Pb046 Low-Temperature Sintering of Cu based Inks on Cellulose Paper  
Shintaro Sakurai, Hideya Kawasaki
- 3Pa047 Structural analysis of monodisperse micelles formed from a calix[4]arene-derived amphiphile bearing PAMAM dendrimer by small-angle X-ray scattering  
Shotaro Miwa, Genki Kubo, Shota Fujii, Rintaro Takahashi, Kazuo Sakurai
- 3Pb048 Aggregated structures of amphiphilic diblock copolymers consisting of poly[3-(triethoxysilyl)propyl methacrylate] and polystyrene  
Yuzuka Yoshioka, Naoto Iwata, Masatoshi Tokita
- 3Pa049 Fabrication of Layer-by-Layer films with polyrotaxane  
Yuta Ikeda, Rina Maeda, Hideaki Yokoyama, Kohzo Ito
- 3Pb050 Thermoresponsive networking of semicrystalline block copolymer micelles induced by triblock copolymer addition and heating  
Kaishi Yamaguchi, Shokyoku Kanaoka, Satoshi Tanimoto
- 3Pa051 Improving heat and moisture resistance plasma polymerized thin films Nano Suit  
Nanami SAWAYAMA, Shingo TO, Daisuke ISHII
- 3Pb052 Surface-assisted crystallization of the phenylalanine derivative on polymer fibers  
Hisashi Takeuchi, Masayoshi Tanaka
- 3Pa055 Enhancement of glass transition temperature by ion-dipole interaction with a metal salt for poly(methyl methacrylate)  
Asae Ito, Masayuki Yamaguchi
- 3Pb056 Yield Properties of Concentrated Suspensions and Melt of Poly(butyl acrylate) Rubber Particles  
Rika Nagasaki, Kenji Urayama
- 3Pa057 Rheological properties and thermal fluctuations in Laponite suspension during aging process  
Tomoki Maruyama, Yoshinori Takikawa, Koji Fukao
- 3Pb058 Complexation of a Charged Dendrimer with a Linear Polyelectrolyte :Effect of Dendrimer Generation Number  
Mitsunori Kobara, Susumu Fujiwara, Tomoko Mizuguchi, Masato Hashimoto
- 3Pa059 Structural Analysis of Pickering Emulsions Probed by Ultrasonic Spectroscopy  
Chisato Kanamori, Hideyuki Nakanishi, Tomohisa Norisuye, Qui Tran-Cong-Miyata

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

- 3Pa061 Synthesis of PVA-Silica hybrid gel and the application as additive for moisture absorbent paper  
Yuki Nagase, keiji Yamashita
- 3Pb062 Preparation of Pickering emulsion toward bone regeneration using biodegradable coacervate droplets  
Yui IKEDO, Shuuhei KOMATSU, Taka-Aki ASOH, Ryo ISHIIHARA, Akihiko KIKUCHI
- 3Pa063 Biopolyimide/silica composite films with advanced thermo-mechanical and optical properties  
Shigeki Sakamoto, Sumant Dwivedi, Tatsuo Kaneko
- 3Pb064 Production conditions and rheological characteristics of mucus-like substances consisting of nanoparticles and polymer

Motoki Hayashi, Naoto Miwa, Masaki Ozawa

- 3Pa065 Preparation of polymer composites with various phenolic resin derivatives  
Toma Yamunami, Tadamasa Nemoto, Tadaharu Adachi
- 3Pb066 Characterization of Nanodiamond Reinforced Natural Rubber Nanocomposite  
takatsugu kato, seira Morimune-Moriya
- 3Pa067 Mechanical Properties of Nylon66/Graphene Oxide Nanocomposite  
Seira Morimune-Moriya, Satoshi Ito, Sayumi Yada
- 3Pb068 Size effect on electro-optical properties in aqueous dispersion of inorganic nanosheets  
Shingo Hamada, Yasushi Okumura, Nobuyoshi Miyamoto, Hiroki Higuchi, Kikuchi Hirotsugu
- 3Pa069 Hybrids preparation by surface-initiated graft polymerization of metal oxides modified with a novel organic phosphonic acid containing an ATRP initiating site.  
yuto Harada, Ryota Mori, Jin Motoyanagi, Masahiko Minoda
- 3Pb070 Synthesis of Polymer Brush Matrices with One-Handed Helical Polymer for the Formation of Chiral Hybrid Materials.  
Takumi Yoshida, Tatsuya Nishimura, Wu Zong Quan, Shigeyoshi Kanoh, Katsuhiko Maeda
- 3Pa071 Surface modification of metal plate by thiol terminated i-PMMA and analysis of surface property  
Yusuke Hara, Kosuke Yamakawa, Hai Thanh Nguyen, Kaoru Adachi, Yasuhisa Tsukahara
- 3Pb072 Surface modification of CNTs via anionic polymerization of isoprene and subsequent hydrogenation and their composites with polyolefin  
Yoshiho Yanagida, Keitaro Kago, Kaoru Adachi, Yasuhisa Tsukahara
- 3Pa073 Development of Organic/Zinc Hydroxide Hybrid Thin Films by Utilizing Macromolecular Templates  
Fumiya KATASE, Satoshi KAJIYAMA, Takashi KATO
- 3Pb074 Mechanical Properties of Epoxy Composites Filled with Surface Modified Cellulose Nanofiber  
Nao Mizuno, Shotaro Sago, Kenji Nagata
- 3Pa075 Hydrophobic polymer / hydrophilic polymer composite microspheres for molecular separation behavior  
Takuma Kureha, Daisuke Suzuki
- 3Pb076 Control of structure of polymer particles by aqueous atom transfer radical polymerization  
Yuichiro Nishizawa, Takuma Kureha, Shusuke Matsui, Daisuke Suzuki
- 3Pb078 Preparation of thermoplastic organic-inorganic nano-hybrid materials  
Shunsuke Hino, kazushi Enomoto, Moriya Kikuchi, Seigou Kawaguchi
- 3Pa079 Synthesis of chiral phenolic resins from resorcinols  
Takumi Ito, Seiji Tsunega, Katsuya Kaikake, Ren-Hua Jin
- 3Pb080 Improvement of the mechanical property of poly(butylene succinate) by adding aligned cellulose acetate nanofibers fabricated by electrospinning  
Naruki Kurokawa, Shunta Kimura, Atsushi Hotta
- 3Pa081 Structure analysis of carbon fiber reinforced nylon 6 degraded in hot steam atmosphere  
Hideaki Hagihara, Tomio Shimada, Masahiro Funabashi, Masao Kunioka, Hiroaki Sato
- 3Pb082 Electrical conductive properties of graphene filled polystyrene / polycarbonate composite materials prepared by different mixing methods  
Akihiro Kondo, Kenji Nagata
- 3Pa083 Structure and Properties of Nanodiamond Reinforced Polyimide Nanocomposites  
Keiya Obara, Seira Morimune-Moriya
- 3Pa085 Selective Substitution Effect Of Palladium On Biicosahedral  $Au_{25}(SR)_5(PR_3)_{10}Cl_2$  cluster  
Shouta Wakayama, Nair Lakshmi, Shunziro Takagi, Hossain Sakiat, Imai Yukari, Wataru Kurashige, Yuichi Negishi
- 3Pb086 Synthesis of Particles using of 2,3-Bis(4-substituted phenyl)maleimide Derivatives and Their Optical Properties  
Ryosuke Tonomura, Akira Horiuchi, Shinya Nakano, Kazuhiro Yamabuki, Kenjiro Onimura
- 3Pa087 Fabrication and Evaluation of Polysaccharide Nanosheets with Inclusion Ability of Odor Molecules  
Shoko Tsuchiya, Atsushi Nakagawa, Yosuke Okamura

- 3Pb088 Fabrication and Evaluation of Polymer Nanosheets encapsulating Lutein  
Ryo Tsuboi,Miyu Kumasaka,Akiko Kanamori,Yosuke Okamura
- 3Pb090 Effect of linkage structure of self-assembling naphthalene compound on the formation of circular supramolecular polymer  
Norimichi Kanao,Shiki Yagai
- 3Pa091 Construction of the electrospun fiber mat from the amphiphilic carbosilane block copolymers containing allyl groups and post-functionalization / crosslinking of the fiber mat.  
Yusa Yoshimura,Toshihisa Mizuno,Junichi Oku
- 3Pb092 Multistimuli responsive hydrogels based on a self-sorted supramolecular double network  
Wataru Tanaka,Hajime Shigemitsu,Takahiro Fujisaku,Ryou Kubota,Itaru Hamachi
- 3Pa093 Development of protein responsive Supramolecular hydrogels  
Keisuke Nakamura,Hajime Shigemitsu,Tomonobu Matsuzaki,Ryou Kubota,Itaru Hamachi
- 3Pb094 Investigation of new surface modification by using nanosheets composed of biocompatible polymers  
Ryo Matsunaga,Atsushi Iwano,Haruki Oka,Okamura Yosuke,Yu Nagase
- 3Pa095 Fabrication of CuO/Co<sub>3</sub>O<sub>4</sub> tubes by using electrospun micrometer-sized fibers containing cobalt nitrite as a template  
Michika Kijima,Kazuhide Ueno,Hiromori Tsutsumi
- 3Pb096 Static Electricity Responsive materials fabricated by supramolecular assemblies  
Hirokuni Jintoku,Hideyuki Kihara
- 3Pa097 Fabrication and Photosensitizing Property of Single-Walled Carbon Nanotube/Dendrimer Nanohybrids  
Tomoyuki Tajima,Kango Ishimoto,Masahiro Yamagami,Hideaki Miyake,Wataru Kurashige,Yuichi Negishi,Yutaka Takaguchi
- 3Pb098  $\pi$ -Conjugated dendrimer assembly displaying sensitive color change by slight temperature and pressure change  
Sae Nakajima,Ken Albrecht,Youhei Takeda,Satoshi Minakata,Kimihisa Yamamoto,Yohei Yamamoto
- 3Pa099 HCl gas adsorption/desorption properties of poly(N-substituted acrylamide)s grafted onto quartz resonator  
Ting Zou,Kento Kimura,Hajime Yagi,Masanobu Matsuguchi
- 3Pb100 Structural characterization of deep eutectic solvents based microemulsions as a potential carrier for transdermal delivery  
Mina Sakuragi,Shinsuke Tsutsumi,Katsuki Kusakabe
- 3Pa101 Silver nanowire structures assembled by a chemical reaction of a dispersive solvent  
Shogo Tsujii,Yuto Kawabata,Hideyuki Nakanishi,Tomohisa Norisuye,Tran-Cong-Miyata Qui
- 3Pb102 Interfacial preparation of ferroelectric poly(vinylidene fluoride) nanoparticles  
Chang Fu,Huie Zhu,Masaya Mitsuishi
- 3Pa103 Preparation of supramolecular materials with cyclodextrin monomer by bulk polymerization and the evaluation of the mechanical properties  
Ryohei Ikura,Yoshinori Takashima,Akira Harada,Hiroyasu Yamaguchi

#### **D. BIOPOLYMERS AND BIORELATED POLYMERS**

- 3Pa105 Distribution of immobilized dye and mechanical properties of the retinal prosthesis composed of polyethylene film coupled photoelectric dye  
Koichiro Yamashita,Tetsuya Uchida
- 3Pb106 Fabrication of PLLA/HAp composites with urethane bond (I) -Evaluation of mechanical and interfacial strengths-  
Mika Saito,Masahiro Fujita,Yuko Takeoka,Masahiro Rikukawa
- 3Pa107 Conjugation of cell adhesive peptide onto anti-biofouling star polymer-coated surface  
fumitoki Nagura,Masayasu Totani,Kazuma Muta,Mime Kobayashi,Kayo Terada,Tsuyoshi Ando,Masao Tanihara
- 3Pb108 Enhanced adhesion of in situ hydrogel composed of hydrophobically-modified Alaska pollock-derived gelatin  
Yosuke Mizuno,Ryo Mizuta,Akihiro Nishiguchi,Tetsushi Taguchi

- 3Pa109 Pysicochemical property of heteroarm star polymer coatings exhibiting high resistance toward protein adsorption  
Masayasu Totani, Kayo Terada, Mime Kobayashi, Tsuyoshi Ando, Masao Tanihara
- 3Pb110 Interaction between proteins and thermoresponsive polymer brush having nitrilotriacetic acid  
Koki Uehara, Takuya Koriyama, Ryo Ishihara, Akihiko Kikuchi
- 3Pa111 Improvement of the coating method of small-diameter silk vascular graft and evaluation of animal implantation experiment  
Takashi Tanaka, Ryo Tanaka, Teturo Asakura
- 3Pb112 Controlled cell extension on micro-patterned surface of sacran hydrogels  
Saranyoo SORNKAMNERD, Maiko K. OKAJIMA, Kazuaki MATSUMURA, Kosuke OKEYOSHI, Tatsuo KANEKO
- 3Pa113 Biosensing based on electrical potential change of conducting polymers caused by enzyme reaction  
Mamoru Kameda, Takashi Kuwahara, Mizuki Kondo, Masato Shimomura
- 3Pb114 Preparation of non-contact fructose sensor detecting electron transfer between conducting polymer films and enzyme  
Chiaki Yamaguchi, Shunichi Abe, Takashi Kuwahara, Mizuki Kondo, Masato Shimomura
- 3Pb116 Development of cell adhesive agarose gel for cell culture substrate  
Haruka Honda, Daiki Goto, Yuki Furukawa, Yui Iwamoto, Kana Tanoue
- 3Pa117 Production of silk fibroin film mixed with silk-adsorptive cell adhesive peptides  
Chikako T. Nakazawa, Ryoichi Takahashi, Atsushi Asano, Yasumoto Nakazawa, Yuya Ichida
- 3Pb118 Fabrication of terminally functionalized thermoresponsive polymer brush surfaces for cell adhesion control  
Junichi Tonegawa, Masamichi Nakayama, Akihiko Kikuchi, Masayuki Yamato, Teruo Okano
- 3Pa119 Design and evaluation of Barnacle-derived peptide for tissue engineering scaffold  
Daisuke Fujii, Kei Kamino, Sachiro Kakinoki, Yoshiaki Hirano
- 3Pb120 Myotube formation in thixotropic cellulose gel centered in multi-layered fiber scaffold  
Keiichi Imato, Kenji Yoneda, Tomo Tanaka, Dong Hyun Yoon, Sekiguchi Tetsushi, Shoji Shuichi, Naoya Takeda

Presentation Time

<c = 13:20~14:00>

<d = 14:00~14:40>

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

- 3Pc001 Synthesis of ultrathin polymer films using metal-organic frameworks with 2-D nanospace  
Shuto Mochizuki, Takashi Uemura
- 3Pd002 Grafting of Fluorocarbon-Hydrocarbon Alternate Copolymer Using Reversible Coordination Mediated Polymerization  
Saki Nakamura, Tadashi Kanbara, Tomoko Yajima
- 3Pc003 RAFT Copolymerization of exo-Methylene Cyclic Carbonate Derived from Glycerol and Various Commodity Vinyl Monomers  
Teigo OKOSHI, Kotaro SATOH, Masami KAMIGAITO
- 3Pd004 1:2 Alternating Radical Copolymerization of Naturally-Occurring Sabinene and Acrylates  
Tomonari NAGAI, Kotaro SATOH, Masami KAMIGAITO
- 3Pc005 Control of Crosslinking Structure by Photo-Switchable Interconvertible Cationic/Radical Polymerization  
Nagisa ITO, Kotaro SATOH, Masami KAMIGAITO
- 3Pd006 Controlled Radical Polymerization of Vinyl Ethers  
Ayano Yoshida, Shinji Sugihara, Masahiro Sudo, Satoshi Fujita, Yasushi Maeda
- 3Pc007 Polymerization and properties of methacrylate bearing thiocyanate group  
Shintaro Nagayama, Ryota Seto, Takeshi Endo
- 3Pd008 Synthesis of hyperbranched polymer by light irradiation - initiator-fragment incorporation radical copolymerization of acrylamides with N,N'-methylenebisacrylamide -



Yoshiro Ishikawa, Tomohiro Hirano, Miyuki Oshimura, Koichi Ute

- 3Pc009 Polymerization of polar monomer using organometallic compounds  
Hironu Okada
- 3Pd010 Phase selective recovery of the organotellurium group in organotellurium mediated radical polymerization (TERP) using stimuli-responsive TERP agents  
Takehiro Fujita, Yasuyuki Nakamura, Shigeru Yamago
- 3Pc011 Aqueous organotellurium chain transfer agents and tellurols for living radical polymerization in water and recovery of tellurium  
Weijia Fan, Yasuyuki Nakamura, Shigeru Yamago
- 3Pd012 One-step synthesis of structurally controlled hyperbranched polymethacrylates through living radical copolymerization of methacrylates and a vinyl telluride  
Yangtian LU, Shigeru YAMAGO
- 3Pc013 Determination of the termination mechanism of radical polymerization of (meth)acrylonitrile  
Xiaopei Li, Yasuyuki Nakamura, Shigeru Yamago
- 3Pd014 Radical Depolymerization for Vinyl Polymers: Equilibrium Control for Terminal Activation  
Yuki Sano, Makoto Ouchi, Mitsuo Sawamoto
- 3Pc015 Sequence-Controlled Vinyl Polymers with Transformable Bulky Monomer  
Dongyoung Oh, Makoto Ouchi, Mitsuo Sawamoto
- 3Pd016 Radical Polymerization of [3.3](3,9)Carbazolophane Derivatives Bridged by Aniline Moiety  
Kanae Miyanaga, Keita Tani, Kazushige Hori, Fumito Tani, Kenta Goto, Keita Sakakibara, Yoshinobu Tsujii
- 3Pc017 Gelation Behavior and Polymerization Reactivity of Tetrakis(alkoxycarbonyl)quinodimethanes with Substituted-Phenoxyethyl Group  
Shiori Yamamoto, Takahiro Uno, Masataka Kubo, Takahito Itoh, Norimitsu Tohnai, Mikiji Miyata
- 3Pd018 Solid-State Polymerization Reactivity of Charge-Transfer Complex Cocrystals Composed of Tetrakis(alkoxycarbonyl)quinodimethanes and Tricyanoquinone Methide Imine  
Yuta Washio, Takahiro Uno, Masataka Kubo, Takahito Itoh, Norimitsu Tohnai, Mikiji Miyata
- 3Pc019 Synthesis of Poly(dialkyl fumarate) Macromonomers by Addition-Fragmentation Chain Transfer  
Junichiro Kurahashi, Noboru Tamari, Eriko Sato, Takashi Nishiyama, Hideo Horibe

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

- 3Pc023 Preparation of interpenetrate polymer network by N-vinylamide derivatives and drug adsorption and desorption by temperature  
Kai KAN, Hiroharu AJIRO
- 3Pd024 Control of micro structure in nanogel crosslinked gels by acoustic wave and their physical properties  
Chisato Kadota, Sada-atsu Mukai, Shinichi Sawada, Yoshihiro Sasaki, Kazunari Akiyoshi
- 3Pc025 Stress Relaxation Behavior of Supramolecular Gels Crosslinked by Host-Guest complexes under various types of deformation  
Takuro Kimura, Kenji Urayama, Masaki Nakahata, Akira Harada, Motomu Tanaka
- 3Pd026 Structure Transition in Triblock Copolymer Gels: the Effect of Chain Architecture and Concentration on Mechanical Properties  
Yanan Ye, Kunpeng Cui, Huijie Zhang, Taolin Sun, Tasuku Nakajima, Takayuki Nonoyama, Takayuki Kurokawa, Jianping Gong
- 3Pc027 Preparation and characterization of syndiotactic polystyrene gels prepared with ionic liquids  
Naoto Yoshida, Nozomi Iba, Saori Inomata, Takumi Sano, Hideyuki Itagaki
- 3Pd028 Physical Properties of PVA/Cs Gel Film and Antibacterial Activity  
Risei WADA, Hidenobu SHIMIZU, Akinori ZUKERAN, Jun SAWAI, Masaru OKABE
- 3Pc029 Mechanical property and nano-structure of Slide-ring elastomer with controlled inclusion ratio  
Tsubasa Shinozuka, Koichi Mayumi, Rina Maeda, Hideaki Yokoyama, Kohzo Ito
- 3Pd030 Effect of stereoregularity and chemical composition on phase transition behavior of

- aqueous N-isopropylacrylamide/N-ethylacrylamide copolymer solutions  
Koki Maeda, Tomohiro Hirano, Miyuki Oshimura, Koichi Ute
- 3Pc031 Effect of the cross-linker agent density on the viscosity of micro-hydrogel dispersions of polyacrylamides  
Takamasa Yoshino, Miho Iwamoto, Akihiko Takada, Yusuke Sanada, Yukiteru Katsumoto
- 3Pd032 Effect of Structure and Sequence of Ionic Monomers on Swelling Behavior of Thermoresponsive Gels  
Megumi Sogoh, Shohei Ida, Shokyoku Kanaoka, Yoshitsugu Hirokawa
- 3Pc033 Mechanical Property and Network Structure of Vinyl Polymer Gels Synthesized Using Different Methods  
Ryuichi Yoshida, Shohei Ida, Shokyoku Kanaoka, Kenji Urayama, Yoshitsugu Hirokawa
- 3Pd034 Relationship between liquids transport behaviors and internal structure of cryogel-like capillaries  
Shun HIRAM, Kohei SUGAYA, Daisuke ISHII
- 3Pc035 Preparation of porous materials by gel-emulsion using redox initiator  
Yudai Imasaka, Masahiro Suzuki, Kenji Hanabusa
- 3Pd036 Gelation properties of new hydrogelators based on threonine  
Shunichi Suga, Masahiro Suzuki, Kenji Hanabusa
- 3Pc037 Preparation of polymeric porous materials using W/O gel-emulsion as template  
Koichi Hori, Masahiro Suzuki, Kenji Hanabusa
- 3Pd038 Simultaneous strengthening and toughening of acrylic rubber miscibly blended with fluorocarbon polymers  
Natsuko Takeda, Noboru Osaka
- 3Pc039 Ultrasound Scattering Studies on Suspensions of Cross-linked Polydimethylsiloxane Microparticles  
Kazuto Tsuji, Hideyuki Nakanishi, Tomohisa Norisuye, Qui Tran-Cong-Miyata
- 3Pd040 Studies on Mechanical Properties on Chemically Cross-Linked Gels Prepared with Poly(ethylene glycol) or Pluronic  
Tetsuro Tomimatsu, Shintaro Yashima, Masahiko Annaka
- 3Pc043 Toward accurate calculation of solvation free energy based on Ornstein-Zernike integral equation theory  
Tatsuhiko Miyata, Naoya Yabuki
- 3Pd044 Solution properties of thermo-responsive polyampholytes  
Yuuki Kawata, Shohei Kozuka, Shin-ichi Yusa
- 3Pc045 Small-Angle X-ray Scattering Study on Structures of Block Copolymer Micelles in Mixture Solvents  
Hiroki Hamamoto, Katsuhiko Yamamoto
- 3Pd046 Renaturation of Xanthan Denatured over 100 °C and Conformational Properties in Thermal Denaturation Process  
Yu Tomofuji, Ken Terao
- 3Pc047 Kinetics and dynamics of intermediate water in PVP aqueous solution using DSC and dielectric spectroscopy  
Naoya Kawade, Yoshitomo Furushima, Masaru Nakada, Hideaki Takahashi
- 3Pd048 Morphology transition kinetics of a polyelectrolyte complex micelle by time-resolved small-angle X-ray scattering  
Rintaro Takahashi, Theyencheri Narayanan, Shin-ichi Yusa, Takahiro Sato
- 3Pc049 The effects of ion intensity which have an influence on structural transition of thermo-sensitive polymer in water  
Risa Tanaka, Shuto Watanabe, Mitsuru Satoh
- 3Pd050 Molecular weight dependence of phase separation behavior for thermo-responsive PEO-PPO alternating multiblock copolymer in aqueous solution  
Tasuku Horiuchi, Yusuke Sanada, Yukiteru Katsumoto
- 3Pc051 Effect of zwitterionic solutes on upper critical solution temperature of aqueous solution of sulfobetaine polymers  
Shota Koseki, Tatsuo Aikawa, Takeshi Kondo, Makoto Yuasa

- 3Pd052 Hysteresis on the Thermo-responsiveness of PiPrOx in water and Thermally-Induced Crystallization  
Takaaki Bekki, Yukiteru Katsumoto
- 3Pc053 Preparation of alternating multi-block copolymers with the stereo-controlled PNiPAm block  
Kazuaki Rikiyama, Yukiteru Katsumoto
- 3Pd054 Structure and dynamics of polyrotaxane/inorganic nanoparticle mixtures  
Takeya Aoki, Koichi Mayumi, Rina Maeda, Kazuaki Kato, Hideaki Yokoyama, Kohzo Ito
- 3Pc055 Hysteresis on the hydration and dehydration processes of thermoresponsive acrylamide polymers in water studied by fluorescence probe method  
Reika Ikemoto, Kento Hamamura, Yusuke Sanada, Yukiteru Katsumoto
- 3Pd056 Cavitation in the Static Polymer Melt  
Masato Hashimoto, Tomoko Mizuguchi, Susumu Fujiwara
- 3Pc057 Deuterium isotope effect on the conformational  $\alpha$ -helix to  $\beta$ -sheet transition in poly(L-lysine) by CD spectroscopy and dynamic light scattering  
Chihiro Hashimoto, Yayoi Kawabata, Hiroshi Ikeda, Miyu Shiraishi, Yasuhiro Nishii
- 3Pd058 Evaluation of Stimuli Response of Nonionic Platonic Micelles  
Rika Miyake, Shota Fujii, Kazuo Sakurai
- 3Pc059 Dynamics of polyrotaxane in solution studied by pulsed NMR  
Yuta Hidaka, Koichi Mayumi, Kazuaki Kato, Hideaki Yokoyama, Kohzo Ito
- 3Pd060 Nonionic hydrophilic groups bearing calix[4]arene micelles : The effect of the headgroup volume on the monodisperse micelles  
KENTA YOSHIDA, SHOTA FUJII, RINTARO TAKAHASHI, KAZUO SAKURAI
- 3Pc061 Study of hydration behavior of substances bearing hydrophilic groups using broadband spectroscopic techniques  
Naoya Sagawa, Toshiyuki Shikata

### C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

- 3Pd066 Preparation of nanocellulose coated with polymer crystal and its application  
Risa Yanai, Tetsuya Uchida
- 3Pc067 Preparation of organic-solvent-dispersible metal oxide nanoparticles using a superacid catalyst  
Taishi Nakahara, Yoshiro Kaneko
- 3Pd068 Isotactic polypropylene / hydrophobized nanodiamond nanocomposites  
Taishi Komatsu, Takuya Matsumoto, Chizuru Hongo, Takashi Nishino
- 3Pc069 Precise separation and elucidation of physical properties of bimetallic metal clusters using high performance liquid chromatography  
Yuki Koyama, Seiichiro Watanabe, Yoshiki Niihori, Yuichi Negishi
- 3Pd070 Effect of reaction temperature on the preparation of ammonium-group-containing POSSs using superacid aqueous solution  
Takatoshi Matsumoto, Yoshiro Kaneko
- 3Pc071 Development of a synthetic method of aryl-substituted octasilsesquioxanes by direct arylation  
satoshi wada, hiroaki imoto, kensuke naka
- 3Pd072 Preparation of amino-group-containing crosslinked polysilsesquioxanes with various structures and their comparison of CO<sub>2</sub> adsorption capacities  
Yusaku Sainohira, Yoshiro Kaneko
- 3Pc073 Property control by changing the substituent groups of incompletely condensed polyhedral oligomeric silsesquioxane derivatives  
Sota Yuasa, Hiroaki Imoto, Kensuke Naka
- 3Pd074 Synthesis and Characterization of Cholesterol-bearing Hyaluronic Acid-Inorganic Hybrid Particles  
Hiroki Matsushima, Setsuko Yamane, Kiyoshi Ohnuma, Shin-ichi Sawada, Yoshihiro Sasaki, Kazunari Akiyoshi
- 3Pc075 Synthesis and Photophysical Properties of Luminophores-Integrated Ionic POSS  
Hayato Narikiyo, Masayuki Gon, Kazuo Tanaka, Yoshiki Chujo

- 3Pd076 Facile method to prepare multilayered film of PEDOT and graphene  
Ichiro Imae, Daiki Fujimoto, Yutaka Harima
- 3Pc077 Development of optical sensors for discriminating particle sizes with polyhedral oligomeric silsesquioxane networks  
Ryota Nakamura, Hayato Narikiyo, Masayuki Gon, Kazuo Tanaka, Yoshiki Chujo
- 3Pd078 Synthesis and Properties of POSS Derivatives Having Radially-Integrated Luminophores  
Keita Sato, Masayuki Gon, Kazuo Tanaka, Yoshiki Chujo
- 3Pc079 Mechanochromic Luminescence of Ethynyl Carborane Derivatives  
Hideki Yamamoto, Kazuo Tanaka, Yoshiki Chujo
- 3Pd080 Synthesis and Evaluation of Urethane-Conjugated Polymer Hybrids Based on POSS  
Keigo Kato, Masayuki Gon, Kazuo Tanaka, Yoshiki Chujo
- 3Pc081 Stimuli-Responsive Solid-State Luminescent Materials Based on *o*-Carborane Having Red-Color Emission  
Keisuke Wada, Kazushi Hashimoto, Kazuo Tanaka, Yoshiki Chujo
- 3Pd082 Fabrication of rare earth metal-doped silica nano fluorophore via template polymerization on chiral super-assemblies  
Hiroshi Yanagita, Naoya Ryu, Tomohiro Shirotsuki, Maki Horikawa, Shoji Nagaoka, Makoto Takahashi, Yutaka Kuwahara, Yutaka Okazaki, Reiko Oda, Hirotsugu Ihara
- 3Pc083 Synthesis of polymer nanotubes containing Fe<sub>3</sub>O<sub>4</sub>-Au nanoparticles  
Naoya Kishimoto, Tsukasa Nakahodo, Hisashi Fujihara
- 3Pd084 Development of composite material with high transparency and toughness, formed by the union of fine silica particles and flexible polymer elastomer.  
Kenta Watanabe, Yukikazu Takeoka, Takahiro Seki, Kenji Urayama
- 3Pc085 Preparation of ZrO<sub>2</sub>/ Polydimethylsiloxane Hybrid Nano-particles  
Akihiro Ohta, Kazushi Enomoto, Moriya Kikuchi, Seigou Kawaguchi
- 3Pd086 The synergy in thermal conductivity of liquid-crystalline epoxy resin composites  
Akinori Okada, Joji Kadota, Hiroshi Hirano, Takeshi Fujiwara, Junichi Inagaki, Takafumi Kuninobu, Kazuhiro Takizawa, Yasuyuki Agari

#### **D. BIOPOLYMERS AND BIORELATED POLYMERS**

- 3Pc089 Light-induced Morphology Change of Supramolecular Polymers Featuring Diarylethene Units  
Takuya Fukushima, Shiki Yagai
- 3Pd090 Effect of terminal alkyl chains on formation of supramolecular polymers with higher order helical architectures  
Hiroaki Yamada, Kengo Wakita, Shiki Yagai
- 3Pc091 Supramolecular Polymerization of Chiral Perylene Bisimide Dyad  
Ryunosuke Shimadzu, Shiki Yagai
- 3Pd092 Development and Spectroscopic Property Sigma-Conjugated Fluorescent Molecules with Oligosilane Backbone  
Takuya Kataoka, Takahiro Muraoka, Kazushi Kinbara
- 3Pc093 Synthesis of Human Serum Albumin Nanowires and Nanotubes Connected with Bis(terpyridine)metal Complexes  
Tatsuya Mitsuda, Ryo Adachi, Yoshitugu Morita, Teruyuki Komatsu
- 3Pd094 Synthesis of Liposomes-Loaded Gold-Nanoparticle Nanotubes  
Yuto Enomoto, Yoshitsugu Morita, Teruyuki Komatsu
- 3Pc095 Construction of metal nanoparticle-loaded liposomes for in vivo use  
Yuuki Nagae, Ayumi Kashiwada
- 3Pd096 Design of metal ions triggered liposomal membrane fusion system  
Kotaro Sahara, Ayumi Kashiwada
- 3Pc097 Immobilization of autoinducer hydrolase on electrospun fiber and its application to quorum sensing inhibition  
Yuta Orimo, Chigusa Okano, Eri Nasuno, Ken-ichi Iimura, Norihiro Kato
- 3Pd098 Diversity of Aggregated Structures of Hetero-DNA-AuNP Assemblies

- Li Yu, Shota Shiraishi, Guoqing Wang, Yoshitsugu Akiyama, Tohru Takarada, Mizuo Maeda
- 3Pc099 Design and function of amphiphilic oligoaspartic acid-containing polymers  
Shin Hirose, Tomoki Nishimura, Shinichi Sawada, Sadaatsu Mukai, Yoshihiro Sasaki, Kazunari Akiyoshi
- 3Pd100 Heat-assisted complex formation of proteins with amphiphilic poly(ethylene sodium phosphate)  
Susita Noree, Yasuhiko Iwasaki
- 3Pc101 Synthesis of alkylated poly(arbutin); control of the micell size and the biocompatibility  
Ayaka Seto, Yoshiyuki Oishi, Yuji Shibasaki
- 3Pd102 Design of polymer nanoparticles adsorbing indole for a treatment of renal failure  
Anna Okishima, Hiroyuki Koide, Yu Hoshino, Hiromichi Egami, Yoshitaka Hamashima, Naoto Oku
- 3Pc103 Construction of core-shell-type fibermats encapsulating proteins  
Yuuya Ido, L.B. Marcon Anthony, Makito Iguchi, Yuto Ozeki, Akiko Obata, Toshihiro Kasuga, Toshihisa Mizuno
- 3Pd104 Construction of amphiphilic proteins including the hydrophobic domain of Oleosin and preparation of the pH-responsible protein nano-capsule  
Kento Sugiura, Toshihisa Mizuno
- 3Pc105 Synthesis of thermoresponsive macromonomer having ester group in polymer main chain  
Yota KOSUKEGAWA, Syuuhei KOMATSU, Taka-Aki ASOH, Ryo ISHIHARA, Akihiko KIKUCHI
- 3Pd108 Enhanced medicinal effect and reduced gastrointestinal toxicity of sugar-derived antitumor drug by reversible conjugation with poly(amino acid)  
Hiroyasu Takemoto, Takanori Inaba, Takahiro Nomoto, Makoto Matsui, Keishiro Tomoda, Nobuhiro Nishiyama
- 3Pc109 Effect of the morphology of polyplexes covered by multi-arm PEG to transcription efficiency  
Keisuke Omura, Kenta Nomura, Ryuta Aono, Eiji Yuba, Atsushi Harada, Kenji Kono
- 3Pd110 Design of glutathione responsive starPEG hydrogels constructing for dual-drug release system  
Hikaru Wada, Ayumi Kashiwada
- 3Pc111 Design and synthesis of hyaluronic acid prodrug with coiled-coil linker  
Asumi Takahashi, Ayumi Kashiwada
- 3Pd112 Fabrication of Controlled Drug Release System Composed of Mesoporous Silica covered by Stimulus Responsive Peptides as nano-gates  
Yuichiro Suzuki, Ryota Kato, Masahiro Higuchi
- 3Pc113 Control of assembly and disassembly of cellular environment-responsive nanofibers for antigen delivery.  
Takehiro Deromachi, Tomonori Waku, Naoki Tanaka
- 3Pd114 Development of a novel ion delivery system toward multi-functional theranostics tool  
Ahram Kim, Yukio Nagasaki
- 3Pc115 Induction of endoplasmic reticulum stress-mediated autophagy and autophagic cell death independent of apoptosis using acid-labile methylated polyrotaxane  
Kei Nishida, Atsushi Tamura, Nobuhiko Yui
- 3Pd116 Development of PEG-incorporated polymer nanoparticle for sepsis treatment  
Naoki Hayashi, Hiroyuki Koide, Anna Okishima, Yu Hoshino, Kenneth J Shea, Naoto Oku
- 3Pc117 Controlled release of extracellular vesicles by voltage impression method for potential biomedical application  
Ai Amano, Yuko Sato, Yoshihiro Sasaki, Kazunari Akiyoshi
- 3Pd118 Polymerized Transition Metal Complexes with Anticancer Activity and the cytotoxic mechanism  
Yuta Yahagi, Hirohumi Fujikura, Daisuke Kozuma, Daisuke Matsukuma, Hidenori Otsuka
- 3Pc119 Fabrication of influenza nanoparticle vaccine for cross-protection  
Taiyu Tazaki, Yuki Ohara, Koshiro Tabata, Kenichi Niikura, Shintaro Kobayashi, Yasuko Orba, Hideyuki Mitomo, Hirofumi Sawa, Teruhiko Matsubara, Toshinori Sato, Akira Aina, Tadaki Suzuki, Kuniharu Ijiri
- 3Pd120 Intracellular fate of exogenous DNA analyzed by artificial beads incorporated into living cells  
Shouhei Kobayashi, Takako Koujin, Tomoko Kojidani, Hiroko Osakada, Chie Mori, Ritsuko Sahashi, Megumi Tsuchiya, Hidesato Ogawa, Yasushi Hiraoka, Tokuko Haraguchi