

Room P

(Academic Promenade)

Poster Presentation

Date		Booth No.	Booth No.									
			001	002	003	004	005	123	124		
11 Wed.	1P	a b	9:50~10:00									
			10:00~10:20									
			10:20~11:00									
			11:00~11:40									
			11:40~11:50									
			12:50~13:00									
12 Thu.	2P	c d	13:00~13:20									
			13:20~14:00									
			14:00~14:40									
			14:40~14:50									
13 Fri.	3P	e f	14:50~15:00									
			15:00~15:20									
			15:20~16:00									
			16:00~16:40									
			16:40~16:50									

Presentation Time
 Mounting Time
 Display Time
 Removing Time

Wednesday, September 11

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

Polymer Chemistry: Synthesis and Reactions

- 1Pa001 Stereospecific radical polymerizations of (*N*-alkylmethacrylamides in the presence of alkali metal salts and phase transition behaviors of aqueous solutions of the polymers obtained
Tadashi Segata, Miyuki Oshimura, Tomohiro Hirano, Koichi Ute 2203
- 1Pb002 Copolymerization of N - substituted maleimides with azo group
Fuminori Ino, Tokio Hagiwara 2204
- 1Pa003 Controlled cyclopolymerization of acrylic anhydride in porous metal complexes
Tetsuya Kaseda, Noriyuki Uchida, Takashi Uemura, Susumu Kitagawa 2205
- 1Pb004 Synthesis and Properties of Vinyl Polymers Containing Xanthone Unit in the Side-chain
Hiroyoshi Sugino, Yasuhito Koyama, Tamaki Nakano 2206
- 1Pa005 Synthesis of polystyrene derivatives bearing FRET pair at the chain ends
Hibiki Hikawa, Makoto Obata 2207
- 1Pb006 Protection and deprotection of the maleimido group and radical polymerization of N-(4-Vinylphenyl)maleimide
Takayuki Okuma, Tokio Hagiwara 2208

1Pa007	Synthesis and Thermal Properties of Polypropylene Triblock Copolymer with Adhesive Property <u>Arisa Komiya</u> , Shoko Tanaka, Daisuke Sasaki, Toru Hoshi, Toshiki Hagiwara, Takashi Sawaguchi	2209
1Pb008	Radical Polymerization of Amino Acid-Based Captodative Acrylates -Change of Stereostructure and Polymerizability of Oxazolidinones by Substituent- <u>Miki Niwa</u> , Hajime Norisada, Hitoshi Tanaka	2210
1Pa009	Study of the synthesis of polyrotaxane by inclusion polymerization <u>Shingo Sato</u> , Masatoshi Kidowaki, Kohzo Ito	2211
1Pb010	Addition effects of carboxylic acids on the thermal polymerization of a divalent metal salts of unsaturated carboxylic acid <u>Satoshi Nakashima</u> , Yoko Tatewaki, Shuji Okada, Ayaka Shindo, Chiemi Mikura, Mikio Yamada.....	2212
1Pa011	Cyclization Polymerization of fluorine-containing 1,6- and 1,7-dienes Tsukasa Taguchi, Atsuhiko Ookubo, Hiroki Fukumoto, <u>Toshio Kubota</u>	2213
1Pb012	Synthesis of water soluble vinyl polymers derived from pyruvic acid as renewable resource <u>Shogo Nishiura</u> , Mayu Hagihara, Masatoshi Miyamoto.....	2214
1Pa013	Radical Polymerization of Acrylamides Having Carbazole Chromophore <u>Naoya Sakata</u> , Haruka Kato, Fuko Ogami, Kazushige Hori, Keita Tani, Keita Sakakibara, Yoshinobu Tsujii	2215
1Pb014	Determination of the Termination Mechanism in Radical Polymerization of Acrylate Yasuyuki Nakamura, <u>Naoki Noguchi</u> , Shigeru Yamago.....	2216
1Pa015	Direct Observation of Initial Processes of Radical Polymerization of Vinyl Esters <u>Ryousuke Matoba</u> , Atsushi Kajiwara.....	2217
1Pb016	Polymerization behavior of RAFT agents bearing CD moiety <u>Kohei Koyanagi</u> , Yoshinori Takashima, Hiroyasu Yamaguchi, Akira Harada.....	2218
1Pa017	Direct Observation of Initiation of Radical Polymerization of Various Styrene Derivatives by Time-resolved ESR Spectrum and its application for Kinetics studies <u>Tetsuya Tatsumi</u> , Atsushi Kajiwara.....	2219
1Pb018	Radical Polymerization of Pyruvic Acid-Based Captodative Acrylates -Control of Stereostructure and Molecular Weight by Temperature and Solvent- <u>Hiroyuki Tsuiki</u> , Misato Kii, Miki Niwa, Hitoshi Tanaka.....	2220
1Pa019	Study on the terminal-modified reaction of acrylic polymers by the solution polymerization with radical initiators <u>Tomomi Takeoka</u> , Chie Nishiuma, Tamayo Shimizu, Mitsutoshi Aritomi	2221
1Pb020	Fluorescence Label Studies of Branching in Polyacrylates <u>Satoe Arata</u> , Itsuko Nakamura, Atsushi Kajiwara, Kaoru Iwai	2222
1Pa021	Living Radical Polymerization with Organic Superbases as Catalysts <u>Lin Lei</u> , Atsushi Goto, Miho Tanishima, Hironori Kaji.....	2223

Polymer Physics: Structure and Properties

1Pb024	Design of signal/information processing devices with hierarchical instabilities -polymer blends containing a polymer with a low-melting point <u>Ryota Maruyama</u> , Hiroki Omamiuda, Naoki Asakawa	3213
1Pa025	Molecular dynamics of polyrotaxanes affected by the modifications of the backbones <u>Tomoki Mizusawa</u> , Kazuaki Kato, Yasuhiro Sakai, Hideaki Yokoyama, Kohzo Ito ...	3214
1Pb026	Stochastic resonance in poly(alkylthiophene)s <u>Yuta Ohno</u> , Naoki Asakawa, Teruo Kanki, Hidekazu Tanaka.....	3215
1Pa027	Extraordinary Phase Transition by the Helix-sense Inversion of Poly(β -p-methylbenzyl L-aspartate) in the Solid State	

	<u>Yuki Suzuki</u> , Hidemine Furuya, Akihiro Abe	3216
1Pb028	Fragility and Dynamic length scale at the glass transition for polystyrene derivatives	
	<u>Aoto Kakinoki</u> , Mizuki Ichimura, Yuya Inayoshi, Takashi Sasaki	3217
1Pa029	Elastic Modulus of the Crystalline Regions of Polymers Derived from Castor Oil at Cryogenic Temperature	
	<u>Yoshihito Tanaka</u> , Kenta Takahashi, Chizuru Hongo, Masaru Kotera, Takashi Nishino	3218
1Pb030	Thermophysical Behavior of Acid Block Chain in Triblock Copolymeric Ionomer	
	<u>Hiroshi Yamashita</u> , Syohei Mizuguchi, Daisuke Sasaki, Toru Hoshi, Toshiki Hagiwara, Takashi Sawaguchi	3219
1Pa031	Effect of absorbed water molecules on the dielectric properties of DNA-CTA film	
	<u>Syota Ohki</u> , Emmanuel Ossai, Kazuya Furusawa, Akimasa Fukui, Naoki Sasaki ...	3220
1Pb032	Effect of absorbed water molecules on the stress relaxation of DNA-CTA film	
	<u>Kohki Okada</u> , Emmanuel Ossai, Kazuya Furusawa, Akimasa Fukui, Naoki Sasaki ..	3221
1Pa033	A study on the visualization of thermal behavior of the PET films during necking deformation	
	<u>Toru Nozawa</u> , Masahiko Takahiro	3222
1Pb034	The functional usage of PoLyInfo, and user's example of use	
	<u>Isao Kuwajima</u> , Masaharu Kumazaki, Kentaro Mashita, Junko Hosoya, Masayoshi Yamazaki, Toshio Ogata	3223

Functional Polymers and Polymer Functions

1Pb036	Preparation and properties of indroquinoxaline-containing polymers	
	<u>Hideki Hayashi</u> , Makoto Murase, Take-aki Koizumi	3649
1Pa037	Synthesis of Novel Conjugated Polymer Bearing a BIAN unit	
	<u>Rohit Kumar Gagan</u> , Raman Vedarajan, Noriyoshi Matsumi	3650
1Pb038	Semiconducting Properties of π -Conjugated Polymers Possessing Various Elements-blocks Prepared by Reactions of Organometallic Polymers Having Titanacyclopentadiene Moieties	
	<u>Yoshimasa Matsumura</u> , Shinsuke Inagi, Ikuyoshi Tomita	3651
1Pa039	Synthesis and Nanostructure preparation of (1-Pyrenyl)butadiyne Derivatives with a chiral group	
	<u>Akinori Sato</u> , Yoko Tatewaki, Shuji Okada	3652
1Pb040	Synthesis and Electric Property of Sulfur-Containing Carbon Materials Base on Carbon Disulfide-Trialkylphosphine Complexes	
	<u>Ryohei Kaneta</u> , Yuki Konuma, Akihiko Kanazawa	3653
1Pa041	Precision Synthesis and Application of Functional Magnetic Polymer Particles by Living Coordination Dispersion Polymerization	
	Yusei Suzumura, Shinsuke Inagi, Takahiro Omura, Yoshiyuki Oguchi, <u>Hiroshi Yamauchi</u> , Ikuyoshi Tomita	3654
1Pb042	Development of ionic liquids as antistatic agents for polyurethanes	
	<u>Takuya Iwata</u> , Akiko Tsurumaki, Saori Tajima, Hiroyuki Ohno	3655
1Pa043	Development of ion-conductive elastomer blends with induced nano-phase separation for antistatic materials	
	Yuki Kubota, <u>Yoichi Tominaga</u>	3656
1Pb044	Ionic conductive properties of Si-containing polymers having dianhydroglucitol units	
	<u>Keito Yamaguchi</u> , Keigo Aoi, Yuzo Ishigaki	3657
1Pa045	Ionic conductive properties of polymers having 1,4:3,6-dianhydroglucitol	
	Hidenobu Takao, <u>Keigo Aoi</u> , Yuzo Ishigaki	3658
1Pb046	Synthesis and Properties of Novel EDOT-containing Oligothiophenes	

1Pa047	<u>Ichiro Imae</u> , Saki Imabayashi, Kenji Komaguchi, Yousuke Ooyama, Yutaka Harima... Synthesis of Alternated Copolymers with Push-Pull Effect and Application to Solar Cell (III) -Introducing Isoindigo-	3659
1Pb048	<u>Taejin Kim</u> , Masahiro Fujita, Yuko Takeoka, Masahiro Rikukawa Synthesis and Characterization of Polythiophenes Having Phosphonium Groups (II) -Investigation of Polymerization Method-	3660
1Pa049	<u>Erika Yamaguchi</u> , Masahiro Fujita, Yuko Takeoka, Masahiro Rikukawa Morphology and carrier transport property of polythiophene derivative nanofiber by controlled solvent vapor annealing	3661
1Pb050	<u>Shubun Kujirai</u> , Yutaka Ohta, Takeshi Shimomura Boron Incorporation to polythiophene backbone via electropolymerization	3662
1Pa051	<u>Katsuhito Iwai</u> , Raman Vedarajan, Noriyoshi Matsumi..... The property of Organic Electrochemical Transistor using several types of poly(thiophene)	3663
1Pb052	<u>Yosuke Tomohiro</u> , Hiroki Tada, Atsushi Aoki Synthesis of Helical Polyisocyanides Bearing Oligothiophene Pendants and Their Applications	3664
1Pa053	<u>Yuugaku Takagi</u> , Ken-ichi Shinohara, Tomoyuki Ikai, Katsuhiko Maeda, Shigeyoshi Kanoh Fabrication and Electromechanical Properties of PEDOT/PSS Films Doped with Metal Ions	3665
1Pb054	<u>Kana Iwashita</u> , Satoru Endo, Hidenori Okuzaki High-efficient synthesis of highly conductive PEDOT/PSS	3666
1Pa055	<u>Yuechen Li</u> , Tatsuhiko Horii, Hanae Hikawa, Masato Katsunuma, Hiromi Takezawa, Hidenori Okuzaki, Fumihiko Kanai Effect of molecular weight of PSS on conductivity of PEDOT/PSS	3667
1Pb056	<u>Masato Katsunuma</u> , Yuechen Li, Tatsuhiko Horii, Hanae Hikawa, Hiromi Takezawa, Hidenori Okuzaki..... Ferroelectricity of Thin Film of Vinylidene Fluoride Copolymer	3668
1Pa057	<u>Tomotaka Kitano</u> , Kenji Kinashi, Wataru Sakai, Naoto Tsutsumi Non-Contact Evaluation of Intra-Molecular Charge Carrier Mobility by Using Polymer Matix	3669
1Pb058	<u>Takahiro Fukumatsu</u> , Akinori Saeki, Shu Seki Charge transport properties of cross-linked thin film	3670
1Pa059	<u>Kota Maki</u> , Kazuki Nakamura, Norihisa Kobayashi Thermal stability of graphene/dopant/graphene laminated conducting film	3671
1Pb060	<u>Haruya Okimoto</u> , Yusuke Tsujimoto, Yuhei Sobe, Masahito Sano Transparent Conductive Film Based on Melat and Oxide Nanoparticles	3672
1Pa063	Gang Qin, <u>Akira Watanabe</u> Preparation and characterization of four-arm-branched poly(N-isopropylacrylamide) macromer	3673
1Pb064	<u>Shohei Sato</u> , Akira Matsumoto, Akihiko Kikuchi, Yuji Miyahara Functionalization of Terpyridine-Terminated Polymer Toward the Development of Novel Biomimetic Materials with Autonomous Function	3674
1Pa065	<u>Hiroto Tada</u> , Yumi Takasaki, Kaori Bundo, Tomonaga Ueno, Takamasa Sakai, Ryo Yoshida Polyion Complex Micelles with Phosphorylcholine and Galactose shells	3675
1Pb066	<u>Ryusuke Enomoto</u> , Yukie Oosako, Shin-ichi Yusa, Kazuhiko Ishihara Synthesis of photoresponsive polymers containing viologen in the side chain and their properties	3676
1Pa067	<u>Tsunehisa Marushita</u> , Yumiko Naka, Takeo Sasaki..... Development of peptide-polymer hybrids working as gelator for various kinds of	3677

	solvents	
1Pb068	<u>Tomoo Matsuoka</u> , Tomoyuki Goto, Tomoyuki Koga, Nobuyuki Higashi.....	3678
	Synthesis and Characteristic of Peptide Multi-block Polymers Aiming at Artificial Spider Silk	
1Pa069	<u>Tomotaka Morishita</u> , Tomoyuki Koga, Nobuyuki Higashi.....	3679
	Fabrication of a polymeric amino acid ionic liquid gel and its application to CO ₂ separation membranes	
1Pb070	<u>Ayumi Yoshizumi</u> , Shohei Kasahara, Eiji Kamio, Masahiro Yasukawa, Hideto Matsuyama.....	3680
	Hydrogel material that can be converted from double network gel to single network gel utilizing supramolecular bond	
1Pa071	<u>Shingo Tamesue</u> , Yukoh Kimura, Norio Tsubokawa, Takeshi Yamauchi.....	3681
	Synthesis of transparent ionic liquids having high refractive index and evaluation of their physicochemical property	
1Pb072	<u>Yoko Kayama</u> , Satomi Taguchi, Takahiro Ichikawa, Hiroyuki Ohno.....	3682
	Preparation of supramolecular hydrogels crosslinked by [c2]rotaxane dimer	
1Pa073	<u>Kazuhiisa Iwaso</u> , Yoshinori Takashima, Hiroyasu Yamaguchi, Akira Harada.....	3683
	Control of phase transition temperature of ionic liquid-derived polyelectrolyte showing LCST-type phase transition in water	
1Pb074	<u>Yuki Deguchi</u> , Yuki Kohno, Hiroyuki Ohno	3684
	Photocontrol of elastic moduli in crosslinked liquid-crystalline polymers with various molecular alignments	
1Pa075	<u>Jun-ichi Mamiya</u> , Motonori Komura, Atsushi Shishido	3685
	Development of Ion-Conductive Liquid-Crystalline Materials Containing Cyclic and Linear Carbonate Groups	
1Pb076	<u>Junji Sakuda</u> , Masafumi Yoshio, Takahiro Ichikawa, Satomi Taguchi, Takuro Matsumoto, Hiroyuki Ohno, Takashi Kato	3686
	Development of Novel Photoconductive Polymer Brushes Using Phthalocyaninato Polysiloxanes as Main Chain	
1Pa077	<u>Satoru Yoneda</u> , Tsuneaki Sakurai, Akinori Saeki, Shu Seki	3687
	Organogel Formation by Triphenylimidazole Derivatives	
1Pb078	<u>Kazuhiro Yabuuchi</u> , Junpei Suzuki, Hitomi Ishida, Makoto Inokuchi.....	3688
	Fluorescent study on Thermo-responsibility of Molecular Assemblies Composed of Poly(L-lactid acid)- <i>block</i> -poly(<i>N</i> -isopropylacrylamide)	
1Pa079	<u>Itsuko Nakamura</u> , Kaoru Iwai	3689
	Photostimulated Viscosity Change of Poly(acrylamide) Gels Using Photodimerization of Coumarin	
1Pb080	<u>Takumi Okano</u> , Nobuyoshi Shirieda, Kazuhiro Yabuuchi, Masaya Moriyama	3690
	Fabrication of Ionic Liquid/Polyurethane Gels and Application to Soft Actuators	
1Pa081	<u>Ryo Tanigawa</u> , Hidenori Okuzaki	3691
	Preparation of creatinine recognition acrylamide gel by molecular imprinted method	
1Pb082	<u>Satoshi Misu</u> , Daisuke Takahashi, Tsuyoshi Izumi	3692
	Development of polyester /vinyl polymer functional composite materials using RAFT gel	
1Pa083	<u>Daiki Yoshimura</u> , Akinori Takasu	3693
	Effect of Ionic Groups of the Gel Network on Selective Adsorption of Metal Ions	
1Pb084	<u>Kazunobu Sakai</u> , Shohei Ida, Satoshi Tanimoto, Yoshitsugu Hirokawa	3694
	Electrophoretic behavior of poly (ester-sulfone) gel containing hydrophilic units	
1Pa085	<u>Yosuke Mano</u> , Akinori Takasu	3695
	Effect of swelling-shrinking behavior of gel capsules on incorporation of substances and tuning of their functions	

	<u>Akane Muto</u> , Yuuka Fukui, Keiji Fujimoto	3696
1Pb086	High performance of multi-walled carbon nanotube/ruthenium oxide polymer actuator over a single-walled carbon nanotube	
	<u>Naohiro Terasawa</u> , Kentaro Yamato	3697
1Pa087	Phenylboronate Based Glucose-responsive Gel with Enhanced Tolerance to Temperature Fluctuation	
	<u>Mai Yuasa</u> , Akira Matsumoto, Toru Hoshi, Takashi Sawaguchi, Yuji Miyahara	3698
1Pb088	Development of Mechanochromic Luminescent Liquid-Crystalline Bianthryl Derivatives	
	<u>Shogo Yamane</u> , Yoshimitsu Sagara, Takashi Kato	3699
1Pa089	Synthesis and Solid-State Polymerization of Diacetylene Derivatives in the Gel State	
	<u>Kohei Kikuchi</u> , Yoko Tatewaki, Shuji Okada	3700
1Pb090	Synthesis and Properties of Polyacrylate having high birefringence mesogens	
	Yuki Arakawa, <u>Yokan Cho</u> , Sungmin Kang, Shunpei Nakajima, Gen-ichi Konishi, Junji Watanabe	3701
1Pa091	Preparation and Evaluation of Pentafluorophenyl-terminated Photosensitive Self-Assembled Monolayer for Organic Thin Film Transistor Fabrication	
	<u>Kazuhito Nagado</u> , Tsubasa Konishi, Michiko Ito, Kazuo Yamaguchi	3702
1Pb092	Bicontinuous Cubic Liquid Crystalline Systems Which Exhibits Light-Induced Phase Transitions	
	<u>Ryo Hori</u> , Yohei Miwa, Katsuhiko Yamamoto, Shoichi Kutsumizu	3703
1Pa093	Molecular Stacking Behavior and Photoinduced Structural Changes of Hydrogen Bonding Gelator Having a Stilbene Skeletal	
	<u>Kohei Segawa</u> , Satoshi Nakazato, Tatsuo Arai, Masaya Moriyama	3704
1Pa095	Alicyclic Polyimides Having Cycloalkanone Bis-spiroborbornane Structure	
	<u>Eriko Ishiguro</u> , Ryosuke Kimura, Toshihiko Matsumoto	3705
1Pb096	Synthesis and Characterization of Phenylethynylcarbonyl Terminated Asymmetric Imide Oligomers	
	<u>Hikaru Tsudukiishi</u> , Takashi Sawaguchi, Masahiko Miyauchi, Yuichi Ishida, Rikio Yokota	3706
1Pa097	Physical Properties of Thermoplastic Polyimide with Disiloxane Segment	
	<u>Atsushi Takamura</u> , Shinpei Ito, Takashi Omori, Daisuke Sasaki, Toru Hoshi, Toshiki Hagiwara, Takashi Sawaguchi, Rikio Yokota	3707
1Pb098	Thermal and Adhesive Properties of Asymmetric Thermoplastic / Thermosetting Polyimides Mixtures	
	<u>Shinpei Ito</u> , Takashi Sawaguchi, Masahiko Miyauchi, Yuichi Ishida, Rikio Yokota .	3708
1Pa099	Development of Addition-type Polyimide Containing Pendant Phenyl Groups / Carbon Fiber Composites - Examination of Double Vacuum Bag System -	
	<u>Yuichi Ishida</u> , Toshio Ogasawara, Masahiko Miyauchi, Nobuaki Ohshiro, Rikio Yokota	3709
1Pb100	Synthesis and physical properties of thermoplastic polyurethane-imide using aliphatic diisocyanate	
	<u>Tomohiro Ueda</u> , Tomohiro Nishio, Toshiaki Kasazaki, Shin-ichi Inoue	3710
1Pa101	Aliphatic Polyurethane with Tartaric acid	
	<u>Kazunori Kizuka</u> , Shin-ichi Inoue	3711
1Pb102	Synthesis and self-healing behavior of the modified PDMS with hydrogen bonding	
	<u>Ryohei Mizukami</u> , Atsushi Hotta	3712

Polymers and Environment

1Pa103	Recycable, High-performances bio-based Polymers from Microbial Cinnamate Biochemicals	
--------	---	--

	<u>Seiji Tateyama</u> ,Phruetchika Suvannasara,Katsuaki Yasaki,Akio Miyazato,Naoki Takaya,Syunsuke Masuo,Tatsuo Kaneko.....	4950
1Pb104	Random Mutagenesis of PHA Synthase Gene from <i>Aeromonas caviae</i> For Adjustable P(3HB-co-3HHx) Composition	
	<u>Mulyana Ilham</u> ,Takeharu Tsuge.....	4951
1Pa105	Syntheses of itaconate-derived biopolyamides and their high performance Nanocomposites with montmorillonites	
	<u>Nupur Tandon</u> ,Mohammad Asif Ali,Seiji Tateyama,Tatsuo Kaneko.....	4952
1Pb106	Syntheses of novel photonic bio-based polymers with azo/cinnamoyl conjugation	
	<u>Kohei Goto</u> ,Seiji Tateyama,Katsuaki Yasaki,Siqian Wang,Naoki Takaya,Tatsuo Kaneko	4953
1Pa107	The Creation of Functional Polymers based on Gallic Acid	
	<u>Yutaka Isobe</u> ,Takashi Arai,Akihiro Matsuyama,Keisuke Sakaguchi,Ryo Tanaka,Yuushou Nakayama,Takeshi Shiono	4954
1Pb108	Biosynthesis and Thermal Characterization of Poly(3-hydroxyalkanoate)s Bearing Phenyl Groups	
	<u>Shoji Mizuno</u> ,Siori Katsumata,Takeharu Tsuge.....	4955
1Pa109	Dissolution of poly(3-hydroxybutyrate) using ionic liquid/water mixtures showing LCST-type phase transition	
	<u>Haruki Mokudai</u> ,Yukinobu Fukaya,Nobuhumi Nakamura,Hiroyuki Ohno.....	4956
1Pb110	For PP/cellulose composite, influence of compatibilizer incorporation on mechanical properties	
	<u>Shigeki Hikasa</u>	4957
1Pa111	Development of high-strength cellulose fibers by melt spinning	
	<u>Shinya Uemoto</u> ,Fumiaki Ono,Mitsuaki Furutani,Kenji Okada	4958
1Pb112	Preparation and Properties of All-Cellulose and All-Wood Composites by Partial Dissolution of Cotton Fabric and Wood in Ionic Liquid	
	<u>Mitsuhiro Shibata</u> ,Naozumi Teramoto,Toshiaki Shimasaki,Taro Nakamura,Yoshinobu Saitoh	4959
1Pa113	Improvement of Physicochemical Properties of Natural Rubber Reinforced with Mechanical nanofibrillated cellulose	
	Hiroataka Mita, <u>Toru Yano</u> ,Kohei Shiraishi,Takashi Endo.....	4960
1Pb114	Aromatic, bio-based polyurea derived from functional cinnamic photodimers	
	<u>Xin Jin</u> ,Seiji Tateyama,Akio Miyazato,Tatsuo Kaneko.....	4961
1Pa115	Degradation behavior of (L)-Lactic Acid Oligomers in seawater	
	<u>Takayuki Tsukegi</u> ,Takamichi Kouzuma,Haruo Nishida	4962
1Pb116	Biodegradability of Composite Film Prepared from Triple-Mixed Biodegradable Aliphatic Polyester Resin with Baked Calcium Oxide Micropowder	
	<u>Shunsuke Yoshida</u> ,Momoko Kawasaki,Michinori Karikomi,Takao Kimura,Shigeaki Maruo	4963
1Pa117	Effects of spherical silica nanoparticles addition on the dynamic properties and the structures of polyamide 11	
	<u>Norio Fukuda</u> ,Masahiro Nishida,Rie Natsume	4964
1Pb118	Synthesis and evaluation of a phosphoric acid and an ammonium ion adsorbents	
	<u>Yusuke Ichiki</u> ,Kyouko Tsuge,Miki Kanamori,Hisato Oosuka,Misato Wakasugi,Keiji Yamashita.....	4965
1Pa119	Nucleation Effect of Xylan Alkyl Esters on Poly(lactide)s	
	<u>Daisuke Ishii</u> ,Fundador Noreen,Yukiko Rogers,Tadahisa Iwata.....	4966
1Pa121	Investigation of depolymerization mechanism of amine cured epoxy resin using model amine compounds	
	<u>Keiichi Kasuga</u> ,Mitsutoshi Nakagawa,Katsuji Shibata.....	4967

1Pb122	The Prussian blue support fiber was prepared and adsorbed of cesium <u>Shohei Asaina</u> , Tetsuya Furuike, Hiroshi Tamura	4968
1Pa123	Selective Recovery of Gold and Autonomous Reduction Process of Hexavalent Chromium Using PEG-based Hydrogel beads <u>Yuzo Ishigaki</u> , Takehiko Kinoshita, Kazunori Nakano, Koichi Yamaguchi, Nobuyuki Shibata, Keigo Aoi, Susumu Nii, Shigendo Akita	4969
1Pb124	Functionality control of lignin derivatives by acylation <u>Koudai Murai</u> , Mitsuru Aoyagi, Masamitsu Funaoka	4970

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

Polymer Chemistry: Synthesis and Reactions

1Pc001	Radical Reactions and Polymerizations Specific in Water: Controlled Kharasch Addition and Controlled Polymerization of Non-Conjugated Monomers <u>Keita Nishizawa</u> , Makoto Ouchi, Mitsuo Sawamoto	2224
1Pd002	Iron-Catalyzed Living Radical Polymerizations of Functional Monomers: Chelate Ligands for Catalysis Promotion and Central Metal Protection <u>Shunsuke Konoike</u> , Makoto Ouchi, Mitsuo Sawamoto	2225
1Pc003	Concerted Metal Catalysis-Iodine Transfer in Living Radical Polymerization: Precision Polymerization of Unconjugated Monomers <u>Kohei Kuraoka</u> , Makoto Ouchi, Mitsuo Sawamoto	2226
1Pd004	Single Monomer Addition in Chain-Growth Radical Polymerization: Sequence Control via Iterative Addition-Cleavage-Functionalization Cycles <u>Tomoya Nakanishi</u> , Makoto Ouchi, Mitsuo Sawamoto	2227
1Pc005	Amphiphilic gradient copolymers via concurrent tandem living radical polymerization: Multiple sequence regulation and unique physical properties <u>Yuusuke Ogura</u> , Takaya Terashima, Mitsuo Sawamoto	2228
1Pd006	In-Chain Functionalized Large Ring Polymers by Hydrogen Bond-Assisted Living Radical Cyclopolymerization <u>Yuichiro Miyabara</u> , Takaya Terashima, Mitsuo Sawamoto	2229
1Pc007	Precision Synthesis of Self-Assembly Polymers toward Accumulation of Carbon-Centered Radicals <u>Shinya Tsuji</u> , Makoto Ouchi, Mitsuo Sawamoto	2230
1Pd008	Precision Syntheses of Hydroxy Recognizable Polymers toward Control of Tautomerism Balance between Acetaldehyde and Vinyl Alcohol <u>Songyuan Tian</u> , Makoto Ouchi, Mitsuo Sawamoto	2231
1Pc009	Radical Copolymerization of Vinyl Acetate and α -Olefin with Various Transition Metal Complexes <u>Toshifumi Kondo</u> , Kotaro Satoh, Masami Kamigaito	2232
1Pd010	Synthesis of Star Polymer via Reversible Cross-Linking Reaction <u>Hisakazu Okura</u> , Shingo Sakamoto, Kotaro Satoh, Masami Kamigaito	2233
1Pc011	Synthesis of Novel Liquid Crystalline Polymers by Radical Copolymerization of Indene Derivatives <u>Masahiro Hashimoto</u> , Kanji Nagai, Kotaro Satoh, Masami Kamigaito	2234
1Pd012	Radical Copolymerization of Phenanthrene Derivatives for Novel Rigid-Rod Vinyl Polymer <u>Akira Kaneda</u> , Kanji Nagai, Kotaro Satoh, Masami Kamigaito	2235
1Pc013	Radical Polymerization of Lactic Acid-Based Captodative Acrylates -Stereospecific Living Polymerization- <u>Kouichiro Hirota</u> , Tatsuya Kibatashi, Miki Niwa, Hitoshi Tanaka	2236

1Pd014	Characterization of chemical composition heterogeneity of RAFT copolymers by HPLC <u>Youhei Koyama</u> ,Tadatomo Kawai,Yuzo Itoh.....	2237
1Pc017	Living Cationic Polymerization of Vinyl Ethers Using Various Salen Ligands: Effects of Metal-Salen Interaction on Polymerization Behaviors <u>Sensho Kigoshi</u> ,Arihiro Kanazawa,Shokyoku Kanaoka,Sadahito Aoshima.....	2238
1Pd018	Controlled Cationic Polymerization of Vinyl Ethers Using Ruthenium Complexes <u>Koichiro Takij</u> ,Arihiro Kanazawa,Shokyoku Kanaoka,Naoya Kanbayashi,Kiyotaka Onitsuka,Sadahito Aoshima.....	2239
1Pc019	Design of Initiating Systems for Living Cationic Polymerization of Styrene Derivatives <u>Ryohei Saitoh</u> ,Arihiro Kanazawa,Shokyoku Kanaoka,Sadahito Aoshima	2240
1Pd020	Cationic polymerization of <i>p</i> -chlorostyrene using Lewis acid/aromatic compound initiating systems: possibility of copolymerization with alkene monomer <u>Mai Hijikata</u> ,Yukari Karasawa,Sora Tomita,Arihiro Kanazawa,Shokyoku Kanaoka,Sadahito Aoshima	2241
1Pc021	Concurrent vinyl-addition and ring-opening cationic copolymerization of vinyl ethers and oxiranes <u>Arihiro Kanazawa</u> ,Shokyoku Kanaoka,Sadahito Aoshima.....	2242
1Pd022	Living Cationic Polymerization of Vinyl Ether containing Sulfur Atoms <u>Ayaka Kaneda</u> ,Takeshi Namikoshi,Miki Murata,Shinji Watanabe.....	2243
1Pc023	Ring-opening polymerization of 1,3-dehydroadamantanes containing trimethylsilyl groups <u>Yuya Nakamura</u> ,Taisuke Nakamura,Sotaro Inomata,Raita Goseki,Takashi Ishizone .	2244
1Pd024	Cationic Polymerization of Divinyl Ethers with a Long Oxyethylene Chain: Possibility of Cyclopolymerization <u>Daichi Nakamura</u> ,Michio Urushisaki,Toshikazu Sakaguchi,Tamotsu Hashimoto .	2245
1Pc025	Ring-Expansion Living Cationic Polymerization: Molecular Design of Initiators to Control Chain Topology <u>Hajime Kammiyada</u> ,Makoto Ouchi,Mitsuo Sawamoto	2246
1Pd026	Cationic Ring-Opening Copolymerization of Trioxane and Various Cyclic Ether Comonomers <u>Jun Ueda</u> ,Shinya Matsuno,Takayuki Ohnishi,Takahiro Uno,Masataka Kubo,Takahito Itoh,Hatsuhiko Harashina.....	2247
1Pc027	RAFT-Type Metal-Free Living Cationic Polymerization of Vinyl Ethers and Alchoxy Styrenes <u>Seiya Ohkubo</u> ,Naoto Konegawa,Shinji Sugihara,Yasushi Maeda	2248
1Pd028	Synthesis of aromatic polyester derived from renewable resources: ring-opening polymerization of the cyclic dimer of ethylene uvitate <u>Yusuke Yamano</u> ,Risa Hanamoto,Masatoshi Miyamoto	2249
1Pc029	Ring-opening polymerization of γ -butyrolactone under high pressure conditions <u>Kazuya Yamashita</u> ,Kazuya Yamamoto,Jun-ichi Kadokawa.....	2250
1Pd030	Polymerization of glycidyl phenyl ether initiated by alkylamine intercalated α -zirconium phosphate as thermal latent catalysts <u>Osamu Shimomura</u> ,Keisuke Maeno,Atsushi Ohtaka,Ryoki Nomura.....	2251
1Pc031	Living anionic polymerization of divinylbenzene derivatives containing electron donating groups <u>Masayoshi Matsumoto</u> ,Syunsuke Tanaka,Raita Goseki,Takashi Ishizone,Akira Hirao	2252
1Pd032	Asymmetric Anionic Polymerization of 7-Isopropyl-2,6-dimethylquinone Methide <u>Taichi Naruse</u> ,Takahiro Uno,Masataka Kubo,Takahito Itoh.....	2253
1Pc033	Effect of Steric Structure on the Anionic Ring-Opening Polymerization of	

	5-Membered Cyclic Carbonates Derived from Aldohexoses	
	<u>Kunio Tezuka</u> , Kuniomi Koda, Osamu Haba	2254
1Pd034	Synthesis of trialkoxysilyl end-functionalized polystyrenes by living anionic polymerization and surface modification of inorganic materials	
	<u>Dinesh Kumar</u> , Tomoya Kanai, Raita Goseki, Takashi Ishizone	2255
1Pc035	Synthesis and Properties of Amphiphilic Poly[α -(alkoxymethyl)acrylate]s	
	<u>Syo Kobayashi</u> , Takahiro Uno, Masataka Kubo, Takahito Itoh	2256
1Pd036	Anionic polymerization of alkoxyalkyl methacrylate in toluene with $t\text{-C}_4\text{H}_9\text{MgBr}$	
	Hitoshi Saito, <u>Dai Ogura</u> , Chizuka Hirokawa, Osamu Nakagawa.....	2257
1Pc037	Anionic polymerization of 2-alkoxyethyl methacrylate having bulky alkoxy group and 2-phenoxyethyl methacrylate	
	Megumi Amano, <u>Rumi Kobayashi</u> , Osamu Nakagawa.....	2258
1Pd038	Anionic polymerization of 2-(vinylloxy)ethyl methacrylate and 2-(allyloxy)ethyl methacrylate	
	Minoru Endo, <u>Chizuka Hirokawa</u> , Rusmaningsih Oky, Hitoshi Terasaki, Osamu Nakagawa	2259

Polymer Physics: Structure and Properties

1Pc041	Effects of annealing for liquid crystalline polyesters on the physical properties	
	<u>Tatsuya Sukumota</u> , Syouta Akiba, Hiroshi Awano, Tatsuhiko Takahashi, Kouitiro Yonetake, Ryokei Endo	3224
1Pd042	Thermodynamic fragility of amorphous polystyrene evaluated from an adiabatic calorimeter	
	<u>Eri Nishiyama</u> , Jun Fujimura, Marika Yokota, Itaru Tsukushi	3225
1Pc043	Melting Kinetics of Polyethylene Crystals over Wide Heating Rates	
	<u>Akihiko Toda</u> , Ken Taguchi, Koji Nozaki, Misuzu Konishi	3226
1Pd044	Structure and properties of poly(lactic acid) plasticized by poly(ethylene glycol)	
	<u>Tong Huang</u> , Shogo Nobukawa, Masayuki Yamaguchi	3227
1Pc045	Solvent Exchange of Organic Compound in Syndiotactic Poly(p-methylstyrene)	
	<u>Hodaka Kohara</u> , Takahiko Nakaoki	3228
1Pd046	Mechanical Properties of Copolymer polymerized by Styrene, its Derivative, and Divinylbenzene	
	<u>Satoshi Akasaka</u> , Takahiko Nakaoki	3229
1Pc047	Relation between Gas Permeability and Molecular Structure of Poly(butylene terephthalate-co-caprolactone) Elastomer	
	<u>Ryosuke Inui</u> , Takahiko Nakaoki, Hideaki Ishihara, Kei Ota, Katsuhisa Yamashita, Chisato Nonomura, Hitoshi Ueno	3230
1Pd048	Application to crystal growth rate control of crystallization mechanism analysis in biodegradable plastics	
	<u>Rikuta Kondou</u> , Masato Hashimoto, Susumu Fujiwara	3231
1Pc049	Molecular orientation behavior under tensile deformation in thermoplastic polyamide elastomers	
	<u>Keisuke Hamasaki</u> , Yusuke Hiejima, Koh-hei Nitta	3232
1Pd050	Melt memory effect of crystallization on polymers	
	<u>Katsunari Hamaguchi</u> , Masato Hashimoto, Susumu Fujiwara	3233
1Pc051	On strain recovery behavior of high density polyethylene at high temperatures	
	<u>Kenichi Ibata</u> , Takashi Uneyama, Koh-hei Nitta	3234
1Pd052	Preparation of Poly(butylene terephthalate) Oriented Films under Magnetic Field Conditions	
	<u>Rei Nakayama</u> , Hiroki Ikake, Masako Takada, Yoshio Muroga, Kimio Kurita, Shigeru Shimizu, Satoshi Kurumi, Kaoru Suzuki, Kohki Takahashi, Kazuo Watanabe	3235

1Pc053	Disorder of the internal structure of three-dimensional spherulites <u>Naoki Yamano</u> , Masato Hashimoto, Susumu Fujiwara	3236
1Pd054	Interactive crystallization behavior of double crystalline block copolymers with close crystallizable temperatures <u>Gaito Kiyofuji</u> , Liang Huang, Shuichi Nojma	3237
1Pc055	Structural Study on co-crystallization of syndiotactic polystyrene with fatty acids and their derivatives Fumitoshi Kaneko, <u>Shuma Sato</u> , Naoki Seto	3238
1Pd056	Structural Relaxation Study Using DSC Method for Polystyrene Films under Tensile Loads Noriki Sakamoto, Yutaro Okuya, <u>Yutaka Tanaka</u>	3239
1Pc057	Development of a technique of temperature modulated dielectric measurement and application to glass transition Masahiro Urushidani, Takashi Oikawa, Haruhiko Yao, <u>Yasuo Saruyama</u>	3240
1Pd058	NMR Study of the Spider Dragline Silk and S. c. ricini Silk <u>Yu Suzuki</u> , Shuto Kawanishi, Yuki Arai, Ryota Takiguchi, Tetsuo Asakura	3241
1Pc059	Morphology of rigid polymer crystal crystallized on Carbon Nanotube <u>Masashi Furukawa</u> , Takayuki Ikeda, Tetsuya Uchida	3242
1Pd060	Structure of Polymer Spherulites Grown from Cavities Shouichi Ono, <u>Masato Hashimoto</u> , Susumu Fujiwara	3243

Functional Polymers and Polymer Functions

1Pd062	Synthesis of Novel Thermoresponsive Polymers and Characterization of Phase Transition Behavior <u>Eriko Sato</u> , Yuki Masuda	3713
1Pc063	Preparation of Uniaxially-Oriented Liquid Crystalline Slide-Ring Materials <u>Masatoshi Kidowaki</u> , Yusuke Nakata, Tetsuya Shiraiishi, Shin Tomokiyo, Yasuhiro Sakai, Kohzo Ito, Haruhisa Akiyama, Yoko Matsuzawa.....	3714
1Pd064	Application of Diels-Alder Reaction to Slide-Ring Gels <u>Masatoshi Kidowaki</u> , Naoki Saito, Ryota Nishizawa, Shuhei Abe, Hiroataka Yonezu, Kohzo Ito, Yuki Hayashi.....	3715
1Pc065	Alignment Control of Dye Molecules Based on Photopolymerization-Induced Molecular Alignment <u>Miho Aizawa</u> , Kyohei Hisano, Jun-ichi Mamiya, Motoi Kinoshita, Takeo Sasaki, Atsushi Shishido	3716
1Pd066	Preparation of self-folding multilayer gels and their bending behavior <u>Takashi Iizawa</u> , Takuya Kosaka	3717
1Pc067	Structural effect of anisotropic monomer in photopolymerization-induced molecular alignment <u>Takahiro Oguma</u> , Jun-ichi Mamiya, Motoi Kinoshita, Atsushi Shishido	3718
1Pd068	Effect of sulfonyl groups in star polymers <u>Hitomi Kawamura</u> , Yumiko Naka, Takeo Sasaki.....	3719
1Pc069	Preparation of Photo-responsive Polymer Films with Gold Nanoparticles and Their Patterning Properties <u>Nobuhiro Akioka</u> , Akifumi Kawamura, Tadashi Uragami, Takashi Miyata	3720
1Pd070	Preparation and Evaluation of Self-Assembled Monolayers possessing Photodegradable 6-Bromo-7-hydroxycoumarinylmethyl Ester <u>Michiko Ito</u> , Takashi Abe, Kazuo Yamaguchi.....	3721
1Pc071	Comparison of surface state and photorelease ability based on differences in modification methods onto inorganic material surfaces using the photodegradable 2-nitrophenethyl linker <u>Tomoya Yamada</u> , Daiki Sato, Michiko Ito, Kazuo Yamaguchi	3722

1Pd072	Preparation and characterization of the photoresponsive self-assembled monolayer containing 2-nitrobenzyl carbamate for organic thin film transistors <u>Tsubasa Konishi</u> , Michiko Ito, Kazuo Yamaguchi	3723
1Pc073	BZ reaction using protic ionic liquids and development of ionic liquid type self-oscillating gel <u>Ko Matsukawa</u> , Takeshi Ueki, Ryo Yoshida	3724
1Pd074	The electro-optic effect of dielectric polymer gels <u>Hiromu Sato</u> , Yasuo Gotoh, Toshihiro Hirai	3725
1Pc075	Preparation of Micro-Sized Stimuli-Responsive Gels with Molecular Recognition Ability and Their Applications to Microsystems <u>Kazuhiro Tsuruta</u> , Chihiro Ohba, Ryuji Kawano, Akifumi Kawamura, Tadashi Uragami, Takashi Miyata	3726
1Pc077	Fabrication of Positive-type Photoresist through Multiphoton Excitation <u>Asato Fukuda</u> , Kenji Kinashi, Wataru Sakai, Naoto Tsutsumi	3727
1Pd078	Two-photon Polymerization of Photoresist <u>Nanaho Sakamoto</u> , Kenji Kinashi, Wataru Sakai, Naoto Tsutsumi	3728
1Pc079	Photo-reduction of Silver Ion through Two-Photon Excitation by Femtosecond Laser <u>Ryotaro Nakamura</u> , Kenji Kinashi, Wataru Sakai, Naoto Tsutsumi	3729
1Pd080	Photorefractivity of triphenylamine polymer <u>Kento Masumura</u> , Sho Tsujimura, Kenji Kinashi, Wataru Sakai, Naoto Tsutsumi ..	3730
1Pc081	Photorefractive effect of polymer-stabilized blue phase LC <u>Fuyuma Ito</u> , Takeo Sasaki	3731
1Pd082	Recording properties of photorefractive polymers <u>Tomoyuki Ogiwara</u> , Takeo Sasaki	3732
1Pc083	Discuss the recording mechanism of photorefractive polymer <u>Osamu Morino</u> , Takeo Sasaki	3733
1Pd084	photoisomerization hologram in swelled polymer gels <u>Ryota Uzu</u> , Takeo Sasaki, Yumiko Naka	3734
1Pc085	Development of photo-isomerization holographic materials with D- π -A chromophores possessing azo group <u>Kumiko Hanabusa</u> , Takeo Sasaki, Yumiko Naka	3735
1Pd086	Application of photorefractive ferroelectric liquid crystals <u>Satoshi Kajikawa</u> , Yumiko Naka, Takeo Sasaki	3736
1Pc087	Study on photorefractivity of main-chain triphenylamine polymer <u>Hironori Shinkai</u> , Kenji Kinashi, Wataru Sakai, Naoto Tsutsumi	3737
1Pd088	Development of high durable of origothiophene photoconductive chiral dopants <u>Masaki Yoshino</u> , Takeo Sasaki, Yumiko Naka	3738
1Pc089	Development of photoconductive chiral dopants using photorefractive liquid crystal <u>Aya Oikawa</u> , Takeo Sasaki	3739
1Pd090	Photochemical Control of Organic Optical Waveguide Consisting of Azobenzene Liquid Crystals <u>Yusuke Sadaike</u> , Linghan Li, Susumu Sugiyama, Osamu Tsutsumi	3740
1Pc091	Fabrication of photo-responsive multi-bilayered film containing azobenzene and mesogen copolymer <u>Ryohei Yagi</u> , Yutaka Kuwahara, Hiroyuki Iwamoto, Shunsuke Ishii, Sunnam Kim, Tomonari Ogata, Seiji Kurihara	3741
1Pd092	Fabrication and optical properties of multilayer film type laser devices containing azobenzene polymer <u>Ryohei Yagi</u> , Yutaka Kuwahara, Sunnam Kim, Tomonari Ogata, Seiji Kurihara	3742
1Pc093	Fabrication and optical properties of multilayer film showing high order reflection	

	Ryohei Yagi, Takashi Hagio, Yutaka Kuwahara, Sunnam Kim, Tomonari Ogata, Toshiki Nagao, Ryotaro Ozaki, <u>Seiji Kurihara</u>	3743
1Pd094	Evanescence wave optical amplifier in water-soluble dye <u>Kengo Takamizawa</u> , Eisuke Nihei	3744
1Pc095	Development of Dimantlable Adhesive using Cross-linked Poly(olefin sulfone)s <u>Nana Nogami</u> , Yumiko Naka, Takeo Sasaki, Minoru Matsuda	3745
1Pd096	Synthesis and application of an azobenzene photoinitiator <u>Daichi Yamaoka</u> , Mitsuo Hara, Shusaku Nagano, Takahiro Seki	3746
1Pc097	Plastic optical fiber based on poly(cyclic olefin) <u>Hiroki Yamamoto</u> , Atsushi Kondo, Azusa Inoue, Kenji Makino, Yasuhiro Koike	3747
1Pd098	Refractive Index Prediction System of Transparent Polymer <u>Norihisa Tanio</u> , Satoshi Takeda, Hiroyuki Murai	3748
1Pc099	Distributed Feedback Lasing Device of Polymer Thin Film <u>Ryo Yamazaki</u> , Kenji Kinashi, Wataru Sakai, Naoto Tsutsumi	3749

Polymers and Environment

1Pc101	Preparation of Steam-Exploded Cellulose/Resin Composites <u>Fusao Hojo</u> , Hiroyuki Kagawa, Chizuru Sasaki, Yoshitoshi Nakamura	4971
1Pd102	Synthesis and Properties of Cross-linked Polymer by Diels-Alder Reaction of Saturated Castor Oil Bearing Furan Rings and Maleimide Derivatives <u>Yohtaro Inoue</u> , Hideki Tachi, Kazuhiko Yamamoto, Takashi Mori	4972
1Pc103	Potential detection method for bio-based polyethylene using radiation measurement <u>Yoshiyasu Nagakawa</u> , Shunji Yunoki, Masaaki Saito	4973
1Pd104	Estimation of biobased plastic contents of polyolefin composites by accelerator mass spectrometry (AMS) <u>Kazuhiro Taguchi</u> , Masao Kunioka, Masahiro Funabashi, Fumi Ninomiya	4974
1Pc105	Preparation of DNA-inorganic hybrid material and its utilization as functional material <u>Chika Tohyama</u> , Masanori Yamada	4975
1Pd106	Accumulation of metal ion by DNA-immobilized cellulose <u>Takashi Kawasaki</u> , Masanori Yamada	4976
1Pc107	Changes in thermal and mechanical properties of poly(L-lactide) under supercritical carbon dioxide fluid <u>Chikara Tsutsumi</u> , Ayaka Tokumaru, Nao Kuwaoka, Yuushou Nakayama, Takeshi Shiono	4977
1Pd108	Fabrication of Nanoparticles Using Polyhydroxyalkanoates and Control of Surface Property <u>Emi Murata</u> , Yoshitaka Kitamoto, Takeharu Tsuge	4978
1Pc109	A Study of Factors Affecting Molecular Weight of Bacterial Polyhydroxyalkanoate <u>Masaya Shiraishi</u> , Ayaka Hiroe, Takeharu Tsuge	4979
1Pd110	Study on flocculation activity against suspended solid in water <u>Shunsuke Sato</u> , Makiko Enoki	4980
1Pc111	Induction of flocculation ability into pectin by amino acid modification <u>Soma Kobayashi</u> , Shunsuke Sato, Makiko Enoki	4981
1Pd112	Preparation of Bio-based Polyimides from 4-Aminocinnamate and their Surface Properties Evaluation as Biomaterials <u>Phruetchika Suvannasara</u> , Akio Miyazato, Seiji Tateyama, Kazuaki Matsumura, Tatsuya Shimoda, Tatsuo Kaneko, Naoki Takaya	4982
1Pc113	Biosynthesis of Poly(3-hydroxyalkanoate) Block Copolymer cultivated from Nonanoic Acid and 10-Undecenoic Acid by <i>P. putida</i>	

	<u>Kei Sashino</u> ,Takahiko Nakaoki.....	4983
1Pd114	Biosynthesis of poly(3-hydroxyalkanoate) cultivated in the medium with glycerin by <i>P.putida</i> Takahiko Nakaoki, Teruyuki Takahashi, <u>Junya Yasui</u>	4984
1Pc115	Synthesis and physical properties of alternating copolymers of 3-hydroxybutyrate and lactate units <u>Yuta Tabata</u> ,Hideki Abe	4985
1Pd116	Synthesis and properties of Poly(lactide-urethane) with ionic group <u>Toshitaka Ohmori</u> ,Ryo Tanaka,Yuushou Nakayama,Takeshi Shiono,Hiroyuki Shirahama.....	4986
1Pc117	Synthesis of poly(ϵ -caprolactone)-block-polylysine having a pyrene group on its terminal and evaluation of its micellization behavior in aqueous system <u>Ryo Kawashima</u> ,Shohei Ida,Yoshitsugu Hirokawa,Satoshi Tanimoto.....	4987
1Pd118	Healing Polymers Networked by Diels-Alder Reaction: Effect of Chemical Structure around the Reversible Bonds <u>Satsuki Shinohara</u> ,Nobuhiro Oya,Youichi Ishii,Naoko Yoshie.....	4988
1Pd120	The advanced recycling process of post-consumer recycling polyethylene <u>Shunichi Kimura</u> ,Aya Tominaga,Ryoko Nakano,Hiroshi Sekiguchi,Shigeru Yao,Eiichi Takatori	4989
1Pc121	Chemical Recycling of Polystyrene/Polyolefin Mixtures by Catalytic Degradation Using Gallium Zeolites <u>Yohei Katsukura</u> ,Nobuhito Yamada,Yasuharu Kanda,Masatoshi Sugioka,Yoshio Uemichi	4990
1Pd122	Influence of injection molding conditions on the fracture surface structure of amorphous polymer <u>Naoto Oda</u> ,Aya Tominaga,Ryoko Nakano,Hiroshi Sekiguchi,Shigeru Yao.....	4991
1Pc123	Development of Easy Peeling Pressure-Sensitive Adhesive by various stimuli <u>Hideki Tachi</u> ,Kazuhiko Yamamoto,Yohtaro Inoue,Takashi Mori.....	4992
1Pd124	Disintegration of poly(lactic acid)s stereocomplex by HFIP and its influence on alkaline hydrolysis <u>Tomoyo Ogishima</u> ,Yuichiro Koide,Hiroki Ikake,Yoshio Muroga,Shigeru Shimizu...	4993

Presentation Time

<e=15:20~16:00>

<f=16:00~16:40>

Polymer Industry and Technology: Processes and Products

1Pe001	Erosion characteristic of epoxy-based nanocomposite <u>Kenichi Yamazaki</u> ,Hiroaki Cho,Hinako Suematsu,Takashi Harakawa,Fumio Sawa,Tetsushi Okamoto	5156
1Pf002	Evaluation of rubber materials for sealing after high-pressure hydrogen cycle exposure -O-rings for high pressure hydrogen vessels(30)- <u>Hirotda Fujiwara</u> ,Hiroaki Ono,Yoshinori Izumi,Shin Nishimura	5157
1Pe003	Effect of Fillers on High-Pressure Hydrogen Seal Performance of Cold Resistant Ethylene Propylene Rubber O-ring - Rubber Materials for O-ring of High Pressure Hydrogen Vessels (28) - Shin Nishimura, <u>Hirotda Fujiwara</u>	5158
1Pf004	In-situ observation of volume change for acrylonitrile butadiene rubber in high-pressure hydrogen- Rubber Materials for O-ring of High Pressure Hydrogen Vessels (29) - Shin Nishimura,Hiroaki Ono, <u>Hirotda Fujiwara</u>	5159
1Pe005	Analysis of structural change in sulfur-vulcanized acrylonitrile-butadiene	

	rubber by hydrogen swelling	
1Pf006	<u>Keiko Ohyama</u> ,Hirotsada Fujiwara,Shin Nishimura.....	5160
	Vibrational spectroscopic study on high thermal conductive twin-mesogen epoxy polymers	
	<u>Shuji Kawamoto</u> ,Yuzo Itoh,Tadatomo Kawai,Hikaru Natori,Hirotsada Fujiwara,Shin Nishimura.....	5161
1Pe007	Preparation of transparent fluoro-polymer material with undulation surface	
	<u>Eri Miwada</u> ,Hideki Sugimoto,Katsuhiko Inomata,Eiji Nakanishi	5162
1Pf008	Preparation of hard-coating materials containing thermally reversible cross-linking	
	<u>Kazuyuki Hata</u> ,Go Nishino,Hideki Sugimoto,Katsuhiko Inomata,Eiji Nakanishi..	5163
1Pe009	Preparation of transparent acryl-clay hybrid materials by inter-layer polymerization method	
	<u>Jun Yatsuzuka</u> ,Manami Sugiura,Hideki Sugimoto,Katsuhiko Inomata,Eiji Nakanishi ..	5164
1Pf010	Preparation of transparent hard-coating material with poly (vinyl butyral)	
	<u>Hidenobu Akihama</u> ,Hideki Sugimoto,Katsuhiko Inomata,Eiji Nakanishi	5165
1Pe011	Preparation of low CTE and transparency hybrid films with organically modified alumina	
	<u>Ken Imamura</u> ,Kazuki Sakami,Hideki Sugimoto,Katsuhiko Inomata,Eiji Nakanishi..	5166
1Pf012	Creation of structural Polyamide 11 particle by crystallization self-assembly force	
	Shoko Iwata,Ryoko Nakano,Hiroshi Sekiguchi, <u>Shigeru Yao</u>	5167
1Pe013	Effect of initial dispersibility of ZrO ₂ nanoparticle on the surface treatment with silane coupling agents	
	<u>Yudai Kawamura</u> ,Tomoya Maeta,Takashi Kawahara,Kumi Hashimoto,Takeshi Fukuda,Shingo Tamesue,Takeshi Yamauchi,Norio Tsubokawa	5168
1Pf014	Smart Soft and Wet Systems Benefit from 3-D Printing and Transparent Shape Memory Gels	
	<u>Hidemitsu Furukawa</u> ,Yoshitaka Amano,Sho Harada,Jin Gong,M. Md. Hasnat Kabir,Masato Makino.....	5169
1Pe015	Electrical actuation of dielectric polymer fiber and its application for micro, nano-weaving	
	Hong Xia,Tsuneaki Yamabe, <u>Toshihiro Hirai</u>	5170
1Pf016	Structure and rheological properties of polyethylene with carbon nanotubes	
	<u>Takaomi Endo</u> ,Shogo Nobukawa,Masayuki Yamaguchi.....	5171

Polymer Chemistry: Synthesis and Reactions

1Pe019	Mutual Conversion Mechanism of m-Phenyleneimine Macrocycles	
	<u>Toshihiko Matsumoto</u> ,Sho Hasegawa,Shun Kobayashi.....	2260
1Pf020	Synthesis and evaluation of organic-metallic hybrid polymers containing azo ligand	
	<u>Miki Kanao</u> ,Masayoshi Higuchi	2261
1Pe021	Synthesis of Organic-Inorganic Polymer Hybrids having a Triphenyl Imidazole Moiety	
	<u>Masato Takasaki</u> ,Takeru Iwamura	2262
1Pf022	Semi-solid phase synthesis of organic nanotubes and their functionalization	
	<u>Masaki Kogiso</u> ,Masaru Aoyagi,Toshimi Shimizu,Mitsutoshi Masuda	2263
1Pe023	Synthesis of norbornene-appended oligopeptides and control of their secondary structures by polymerization	
	<u>Akira Kaneko</u> ,Toru Nakayama,Yohei Yamamoto.....	2264
1Pf024	Synthesis of cyclic organoarsinic compounds derived from phenylacetylene derivatives and their metal complexes	
	<u>Hiroki Adachi</u> ,Kensuke Naka	2265
1Pe025	Synthesis of polymer complexes having triazolium-based N-heterocyclic	

	carbene ligand	
1Pf026	<u>Tomoharu Kuroda</u> , Shin-ichi Matsuoka, Masato Suzuki, Koji Takagi Organoarsenic platinum(II) complexes and their void volume dependent room temperature emission	2266
1Pe027	<u>Hikaru Unesaki</u> , Takuji Kato, Seiji Watase, Kimihiro Matsukawa, Kensuke Naka... Photoreversible Switching between Assemblies and Disassemblies of Supramolecular Polymer Formed by an Azobenzene-Bridged Pillar[5]arene Dimer	2267
1Pf028	Kumiko Yoshikoshi, <u>Tomoki Ogoshi</u> , Takamichi Aoki, Tada-aki Yamagishi..... Formation of [2]Rotaxane in Bulk Using Slipping Approach	2268
	Yuko Tamura, <u>Tomoki Ogoshi</u> , Takamichi Aoki, Daiki Yamafuji, Tada-aki Yamagishi .	2269

Polymer Physics: Structure and Properties

1Pf030	Shape change of water-in-oil droplet microemulsion droplets	
1Pe031	<u>Naohito Urakami</u> , Akio Takaki, Masayuki Imai, Takashi Yamamoto Topological Array of Connected-Colloidal Particle	3244
1Pf032	<u>Yoshiyuki Mochizuki</u> , Hiroshi Endo, Takeshi Kawai Liquid Crystalline Behavior of Poly(substituted methylene)s Bearing Various Alkylene Groups on their Side Chain	3245
1Pe033	<u>Kazuhiro Shikinaka</u> , Kyohei Fujii, Teruki Hoshino, Noboru Koshimizu, Koichi Sakajiri, Masatoshi Tokita, Junji Watanabe, Kiyotaka Shigehara Liquid crystalline conjugated oligomers: synthesis and structure-property relationships of phenyleneethynylene-based cross-shaped mesogens	3246
1Pf034	<u>Tetsuo Yatabe</u> , Yuji Kawanishi, Takahito Inoue..... Liquid-crystal molecule orientation of fluorine-containing polyimide membranes using different preparation procedure by photo-alignment method	3247
1Pe035	<u>Hitoshi Sugiyama</u> , Daiki Gondo, Shuichi Sato, Setsuko Matsumoto, Hironaga Matsumoto, Kazukiyo Nagai..... Simulation of the Orienting Mixture of Liquid Crystal and Dendrimers	3248
1Pf036	<u>Makoto Uchida</u> , Tomonori Koda, Akihiro Nishioka, Osamu Haba, Koichiro Yonetake, Musun Kwak, Yuichi Momoi, Kyoungri Kim, Dongwoo Kang, Youngseok Choi..... Experimental Study of Coarsening Dynamics for Liquid Crystalline Polymer with Cyanobiphenyl Group in the Side-Chain	3249
1Pe037	<u>Yutaka Tanaka</u> Synthesis of precision polymers for elucidation of dynamic photopolymerization process	3250
1Pf038	<u>Wataru Nakano</u> , Jun-ichi Mamiya, Motoi Kinoshita, Yumiko Naka, Takeo Sasaki, Atsushi Shishido Phase Behavior of Double Liquid Crystalline Block Copolymers Containing Photoresponsive Mesogens	3251
1Pe039	Takayuki Okazawa, Yugo Yamazaki, <u>Hiroki Takeshita</u> , Masamitsu Miya, Katsuhiko Takenaka, Tomoo Shiomi..... The effect of the substituent size of ferroelectric cholesteric liquid crystal	3252
1Pf040	<u>Yuki Sato</u> , Yumiko Naka, Takeo Sasaki..... Effect of substituent on the ferroelectric cholesteric liquid crystals	3253
1Pe041	<u>Natsuki Nakaaki</u> , Takeo Sasaki..... Effect of Azobenzene Compounds on the Structures of Bicontinuous Cubic Liquid Crystal Phase	3254
1Pf042	<u>Ryo Hori</u> , Yasuaki Kanbe, Yohei Miwa, Shoichi Kutsumizu Formation of liquid-crystalline ordering in side-chain polymers with bulky terminal groups	3255
	Toshiyuki Hayashi, Takanori Kojo, <u>Seiji Ujiie</u>	3256

1Pf044	Structural analysis of Poly(ethylene terephthalate) film during uniaxial drawing <u>Kenta Takahashi</u> , Takuji Higashioji, Kazuyuki Okada, Takeshi Nakagawa, Masaru Nakada, Yoshitomo Furushima, Toshiji Kanaya, Yutaka Ohkoshi.....	3257
1Pe045	Additive effects of cross linked polyoxymethylene on tensile properties <u>Misato Saeki</u> , Koh-hei Nitta, Daisuke Kobayashi.....	3258
1Pf046	Swelling and Foaming of Fluorine Containing Materials with Supercritical Carbon Dioxide <u>Sungmin Lee</u> , Kohzo Ito, Hideaki Yokoyama.....	3259
1Pe047	Temperature-dependent Structural Changes due to Intermolecular Interaction of Nylon 6 studied by Low-frequency Raman, Terahertz Spectroscopies and Quantum Chemical Calculation <u>Erika Onishi</u> , Harumi Sato, Shigeki Yamamoto, Kummetha Raghunatha Reddy ., Daitaro Ishikawa, Hiromichi Hoshina, Yusuke Morisawa, Yukihiro Ozaki ...	3260
1Pf048	Preparation of cellulose nanofiber / polyvinyl alcohol nanocomposite fibers by using crystallization from dilute solution and its application <u>Fumiaki Iwaguro</u> , Noriko Furutani, Tetsuya Uchida.....	3261
1Pe049	Stress Induced Molecular Aggregation structure Changes of Electrospun Poly(butylene terephthalate) Fibers <u>Hirofumi Kabayama</u> , Ken Suzuki, Ryohei Ishige, Noboru Ohta, Yuji Higaki, Atsushi Takahara	3262
1Pf050	Biodegradability of Poly(lactic acid) Fabrics studied by NIR Imaging <u>Harumi Sato</u> , Shogo Tsuchihara, Daitaro Ishikawa	3263
1Pe051	Lamellar structure and crystallization process of miscible crystalline/crystalline block copolymers Dai Kadokura, <u>Toshiyuki Kataoka</u> , Takayuki Ikehara	3264
1Pf052	Crystallization temperature dependence of proton conductivity of crystalline/proton conductive block copolymer <u>Toshiyuki Kataoka</u> , Yusaku Takei, Takayuki Ikehara.....	3265
1Pe053	Structural Changes, Crystallization Behaviors and Intermolecular Interactions Between Poly(3-hydroxybutyrate) and Chitin Blends as Studied by Vibrational Spectroscopy and X-ray Diffraction Measurements <u>Khasanah</u> , Raghunatha Reddy Kummetha, Nicolas Spegazzini, Harumi Sato, Yukihiro Ozaki	3266
1Pf054	Structuralchemical studies on octasilanesilsesquioxane and octavinyl dimethylsilylsilsesquioxane Yuzo Itoh, <u>Yoshifumi Hashimoto</u> , Tadatomo Kawai, Hidetake Seino	3267
1Pe055	The study of structural change of stretched polyethylene films using synchrotron X-ray beam <u>Shinichi Kitade</u> , Kazushi Kodama, Hideo Kurihara, Yusuke Sanada, Isamu Akiba, Kazuo Sakurai	3268
1Pf056	Crystallization of single-walled carbon nanotube from dilute solution <u>Satoru Yoshida</u> , Naoya Tsugawa, Tetsuya Uchida	3269
1Pf058	Structure and deformation behavior of poly(lactic acid)/polyethylene blends <u>Chawakorn Samthong</u> , Anongnat Somwangthanaroj, Shogo Nobukawa, Masayuki Yamaguchi	3270
1Pe059	Effects of molecular weight and end group modification of SBR on physical properties of silica filled compounds; Part2 <u>Yoshihisa Inoue</u> , Hiroshi Saito, Takaaki Matsuda, Kazuya Nagata	3271
1Pf060	Investigation of localization of silica particles in SBR/BR blend by AFM <u>Yoko Fujimoto</u> , Jun Kikuma, Chigusa Yamada, Yoshihisa Inoue, Takaaki Matsuda, Kazuya Nagata	3272
1Pe061	Control of localization of silica in SBR/BR matrix by modifying SBR and BR	

	<u>Chigusa Yamada</u> , Yoshihisa Inoue, Takaaki Matsuda, Yoko Fujimoto, Jun Kikuma, Kazuya Nagata.....	3273
1Pf062	Computer Simulation of Structure Formation of Block Copolymers via Directed Self-Assembly (DSA)	
	<u>Honami Nariyama</u> , Tsuyoshi Koga	3274
1Pe063	Preparation and Physical Properties of Molecular Blend	
	<u>Yusuke Nakanishi</u> , Yuka Ishikawa, Yoshiaki Nishimura, Daisuke Sasaki, Toru Hoshi, Toshiki Hagiwara, Takashi Sawaguchi	3275
1Pf064	Annealing Effect on Microstructure and Physical Properties of iPP/PMMA Composite Prepared using Supercritical Carbon Dioxide	
	<u>Rui Zhu</u> , Toru Hoshi, Yoshio Muroga, Toshiki Hagiwara, Takashi Sawaguchi	3276
1Pe065	The fabrication of the high strength CNT spun yarn by Fluorene structure type epoxy resin binder	
	<u>Kosuke Terakura</u> , Yoshihiro Yamashita, Risa Utsunomiya, Teruaki Matsuba.....	3277
1Pf066	Effect of addition of polysilane on the mechanical properties of glass fiber reinforced polypropylene	
	<u>Shouta Takemura</u> , Katsuhisa Tokumitsu.....	3278
1Pe067	The meso-scale order structure of immiscible polymer blends II Effect of solvent casting conditions on ordered structure	
	Junhyeok Jang, <u>Tsuyoshi Inoue</u> , Hirohisa Yoshida, Masayuki Kawazoe	3279
1Pf068	Intermolecular Interactions in Mixtures of Phenol Novolac Resin and Elastomers Capable of Forming Hydrogen Bonds	
	<u>Akihisa Yamashita</u> , Hidemine Furuya, Yukihiko Yamashita	3280
1Pe069	Analysis of Distribution of Homopolymer in Block Copolymer / Homopolymer Blend as Revealed by Anomalous Small-angle X-ray Scattering	
	<u>Kazuma Kanayama</u> , Katsuhiko Yamamoto, Isamu Akiba	3281
1Pf070	Study on the mechanical and gas-barrier properties of various kinds of polymer with/without nano-silica composites by addition of polysilane material	
	<u>Yuya Fukui</u> , Katsuhisa Tokumitsu, Keiji Nakajima	3282
1Pe071	Morphology control of oligoimide incorporated precursors for well-ordered nitrogen-doped mesoporous carbon materials	
	<u>Yuanyuan Liu</u> , Koshi Ohnishi, Kenta Okuhara, Rina Maeda, Xiaolin Wang, Teruaki Hayakawa	3283

Functional Polymers and Polymer Functions

1Pe073	Organic semiconductor crystal light-emitting transistors using two dimensional diffracting gratings	
	<u>Naoki Sakamoto</u> , Takeshi Yamao, Shu Hotta	3750
1Pf074	Polarized photoreaction and optical properties of the polymer complex composed derivative of benzylideneaniline	
	<u>Risa Hosoda</u> , Mizuho Kondo, Nobuhiro Kawatsuki.....	3751
1Pe075	Preparation of aminomaleimide derivatives-containing polymer films and their luminescence properties	
	<u>Kohei Kizaki</u> , Kensuke Naka	3752
1Pf076	Synthesis of photo-latent thiols liberating photoproducts with high solubility and their application to thiol/ene UV curing materials	
	<u>Taku Ishii</u> , Koji Arimitsu	3753
1Pe077	Characteristics of UV curing materials containing photo-latent thiols with nitrobenzyl groups	
	<u>Yuri Sato</u> , Koji Arimitsu	3754
1Pf078	Properties of photoreactive materials containing acid-amplifying microcapsules	
	<u>Shota Amano</u> , Koji Arimitsu.....	3755

1Pe079	Photosensitivity characteristics of photoreactive materials enhanced by superacid amplifiers <u>Tetsuya Iwazaki</u> ,Kiwamu Terada,Koji Arimitsu.....	3756
1Pf080	Amplification of Photoinduced Wettability Changes of Rough Polymer Films with Azobenzene Groups <u>Ken Komiya</u> ,Koji Arimitsu	3757
1Pe081	Characteristics of photoreactive materials containing photodecarboxylation-type photobase generators sensitive to 365 nm light <u>Ken Fukuda</u> ,Koji Arimitsu,Nobuhiko Sakai	3758
1Pf082	Synthesis of novel photobase generators and their application to photoreactive materials <u>Yuya Maruyama</u> ,Koji Arimitsu	3759
1Pe083	Photosensitivity characteristic of photoreactive materials containing novel base amplifiers with high solubility <u>Hiroshi Kitamura</u> ,Koji Arimitsu,Nobuhiko Sakai	3760
1Pf084	Anionic UV curing of epoxy resins using novel base amplifiers without gas generation <u>Shin Kawahara</u> ,Koji Arimitsu.....	3761
1Pe085	UV curing of water-soluble epoxy resins containing base-amplifying microcapsules <u>Yune Kumazawa</u> ,Koji Arimitsu.....	3762
1Pf086	Anionic UV curing behavior of episulfide resins containing latent pigments <u>Ryousuke Yamamoto</u> ,Koji Arimitsu	3763
1Pe087	Synthesis of the silicon-containing additives to UV-NIL resin and investigation of their dry etching resistance <u>Yuhei Tasaki</u> ,Shu Kaneko,Masaru Nakagawa,Hiroki Sato,Yuseke Honda,Nobukatsu Nemoto	3764
1Pf088	Photomechanics of cinnamate-derived polymers having photoreactive groups in main-chain and their specification to Bio-based materials <u>Katsuaki Yasaki</u> ,Seiji Tateyama,Naoki Takaya,Tatsuo Kaneko	3765
1Pe089	Synthesis and characterization of poly(dibenzo[c,g]carbazole-5,9-diyl) <u>Tomohiro Okura</u> ,Masashi Kijima.....	3766
1Pf090	Synthesis and optical properties of azobenzene polymer derived from the bifunctional fumaric acid and itaconic acid <u>Sunnam Kim</u> ,Wataru Inoue,Satosi Hirano,Ryohei Yagi,Yutaka Kuwahara,Tomonari Ogata,Seiji Kurihara	3767
1Pe091	Synthesis and Properties of Folded π Stacked Polymers <u>Ryota Moriai</u> ,Yusuke Naito,Sigeaki Funyu,Ken-ichi Ishitsuka,Naoki Asano,Sentaro Okamoto	3768
1Pe093	Synthesis and Photophysical Properties of Axially Ligated Silicon Phthalocyanine Polymer with Bulky Spacer <u>Takumi Yamamoto</u> ,Shinjiro Machida,Noriaki Ikeda.....	3769
1Pf094	Synthesis and evaluation of novel dyes for triplet-triplet annihilation-supported high efficient upconversion with low power excitation <u>Shouhei Shiotsu</u> ,Kazuo Tanaka,Wataru Ohashi,Yoshiki Chujo	3770
1Pe095	Photofunctional Materials Based on Tetraphenylethane Scaffold <u>Gen-ichi Konishi</u> ,Kentaro Sumi,Yusuke Tojo.....	3771
1Pf096	Synthesis and fluorescence properties of phenylenes oligomers exhibit aggregation-induced emission properties <u>Kazuki Sekiguchi</u> ,Naoya Adachi	3772
1Pe097	Synthesis and photoinduced orientation of side-chain liquid crystalline polymer with schiff base moiety <u>Tepei Washio</u> ,Hitomi Matsushita,Mizuho Kondo,Nobuhiro Kawatsuki	3773

1Pe099	Preparation of composite films of Poly(acrylic acid)-amorphous calcium carbonate composite particles with cationic polymers <u>Takayuki Minami</u> , Kensuke Naka, Shu-chen Huang, Yoshiki Chujo.....	3774
1Pf100	Photo-Induced Change in Particle Size of Polymeric Micelles Formed by Spirobenzopyran-Modified Amphiphilic Block Copolymers <u>Tomoko Tanaka</u> , Yu Echigo, Koji Tsuchiya, Hirofumi Yajima.....	3775
1Pe101	Fabrication of biotin-labeled double-walled carbon nanotubes for a specific biosensor <u>Yuka Nagaya</u> , Akihiro Kuno, Koji Tsuchiya, Hirofumi Yajima	3776
1Pf102	Characterization of polymersome prepared from photocleavable diblock copolymers with different molecular weights of the hydrophobic chain <u>Shota Yamamoto</u> , Jun Nakanishi, Seiichi Nakahama, Kazuo Yamaguchi	3777
1Pe103	Cellulose Nanofiber -microfibrillar technology and it's application- <u>Naotaka Nishio</u> , Takashi Arai.....	3778
1Pf104	Fine tuning of crosslinking degree of polyion complex (PIC) membranes to control mechanical properties and semipermeability of PICsomes <u>Omer Faruk Mutaf</u> , Akihiro Kishimura, Yasutaka Anraku, Kazunori Kataoka	3779
1Pe105	Device application of graphene nanoribbons synthesized by chemical vapor deposition on metal surface <u>Yoshiyasu Kawagoe</u> , Maki Yano, Takahiro Kojima, Hiroshi Sakaguchi	3780
1Pf106	Self-organization of polymer electrolyte: Formation of highly oriented ionic supramolecular nanowire onto carbon substrates <u>Akihiro Ohira</u> , Seiichi Kuroda, Tatsuya Oshima, Masahiro Rikukawa	3781
1Pe107	Preparation of chitosan microparticles having inorganic shell via soft chemical process <u>Satoshi Tanimoto</u> , Ayaka Sato, Ryuta Inoue, Vinh Hoa Huynh, Shohei Ida, Yoshitsugu Hirokawa	3782
1Pf108	Control of degree of substitution of sulfoethylated polyrotaxane <u>Kengo Igarashi</u> , Jun Araki	3783
1Pe109	Alignment and electric properties of polythiophene nanofibers <u>Satoshi Kushi</u> , Yutaka Ohta, Takeshi Shimomura	3784
1Pf110	Design and synthesis of a polyrotaxane having terminal end-capping groups capable of selective decomposition <u>Yuta Honda</u> , Jun Araki	3785
1Pe111	Surface Design of Gold Nanoparticle by Phase Separation of Ligand Molecules <u>Ryo Iida</u> , Kenichi Niikura, Shota Sekiguchi, Hideyuki Mitomo, Kuniharu Ijiro.....	3786
1Pf112	Synthesis and properties of amino functionalized gold nanoparticles using octa(3-aminopropyl)octasilsesquioxane <u>Shigeyoshi Suzuki</u> , Kensuke Naka	3787
1Pe113	Self-sorting in the self-assembly of supramolecular rosettes of barbiturates Shiki Yagai, <u>Hidetaka Iwawaki</u> , Takashi Karatsu, Akihide Kitamura	3788
1Pf114	Morphological control of supramolecular nanostructures for nanofabrication <u>Ryusuke Sakaguchi</u> , Yutaka Okazaki, Makoto Takafuji, Hirofumi Ihara	3789
1Pe115	Construction of Nanocolumns by Hydrogen-bonding Oligo(hexylthiophene)s and Their Application in Organic Photovoltaics Shiki Yagai, <u>Mika Suzuki</u> , Yuki Tani, Ken-ichi Nakayama, Yoshihiro Kikkawa	3790
1Pf116	Photoinduced Ring-Opening Supramolecular Polymerization Shiki Yagai, <u>Yuki Yamada</u> , Takashi Karatsu, Akihide Kitamura	3791
1Pe117	Construction of Magneto-Active Soft Materials through Self-Assembly of Organic Radical Molecules <u>Hiroki Eimura</u> , Masafumi Yoshio, Kosuke Nakagawa, Hiroko Tokoro, Sin-ichi Ohkoshi, Takashi Kato	3792

1Pf118	Development of Nanofiber Gel Sheet Using Thermoresponsive polymer <u>Yoshiyuki Yokoyama</u>	3793
1Pe119	Characterization of Redox-Active N-Heteroacene Based Materials <u>Kyosuke Isoda</u> , Tomonori Abe, Makoto Tadokoro	3794
1Pf120	Preparation of Shape-Controlled TTF-Gold Hybrid Wires <u>Yukiko Tsuji</u> , Kensuke Naka	3795
1Pe121	PET nanofiber sheets prepared by carbon dioxide laser supersonic multi-drawing 4 <u>Kouichi Miyagi</u> , Akihiro Suzuki	3796

Thursday, September 12

Presentation Time

<a=10:20~11:00>

<b=11:00~11:40>

Polymer Chemistry: Synthesis and Reactions

2Pa001	Click synthesis of six-armed dendritic telechelics and construction of new <i>fused</i> -type multicyclic polymer topologies via the ESA-CF process <u>Hisayuki Aoyanagi</u> , Masahito Igari, Takuya Yamamoto, Yasuyuki Tezuka	2270
2Pb002	Synthesis and topology effects of cyclic polymers having perylene diimide side chain <u>Akihiro Kimura</u> , Takuya Yamamoto, Yasuyuki Tezuka	2271
2Pa003	Effective synthesis of a polymer knot through the ESA-CF Process <u>Nao Shiozaki</u> , Takuya Yamamoto, Yasuyuki Tezuka.....	2272
2Pb004	Synthesis of cyclic and linear polymers for the investigation of topology effects by ultrasonic irradiation <u>Kenichiro Nakashima</u> , Takuya Yamamoto, Yasuyuki Tezuka.....	2273
2Pa005	Synthesis of functionalized cyclic polymers via RAFT polymerization and thiolactone-disulfide chemistry in water <u>Eisuke Baba</u> , Pieter Espeel, Takuya Yamamoto, Yasuyuki Tezuka, Filip Du Prez ...	2274
2Pb006	The reversible topological transformation between linear and cyclic polymers by the dimerization-dissociation of coumarin units <u>Sakyo Yagyū</u> , Takuya Yamamoto, Yasuyuki Tezuka	2275
2Pa007	Control of polymer chain mobility at fluoropolymer film surface with coumarin groups <u>Yoshiko Owaki</u> , Shinya Yamada, Kenji Sugiyama.....	2276
2Pb008	Synthesis and surface characterization of block copolymer bearing with ionic bond-formed perfluoroalkyl groups <u>Ayana Nakamura</u> , Satoko Matsushima, Takeshi Yamada, Kenji Sugiyama.....	2277
2Pa009	Synthesis of Hexabenzocoronene-layered polymer with the xanthene skeleton <u>Tatsuya Nakano</u> , Yasuhiro Morisaki, Yoshiki Chujo	2278
2Pb010	Synthesis and properties of regiorandom cyclic P3HT <u>Kazuyuki Ishikawa</u> , Naohiro Kameta, Mitsutoshi Masuda, Takuya Yamamoto, Yasuyuki Tezuka	2279
2Pa011	Conjugated Polymers Based on Boron Diiminate with Aggregation-Induced Emission Enhancement <u>Amane Hirose</u> , Ryouyusuke Yoshii, Kazuo Tanaka, Yoshiki Chujo	2280
2Pb012	Polyrotaxane synthesis with melted polymers and melted cyclic molecules without solvents <u>Yoshinori Okabe</u> , Kazuaki Kato, Yasuhiro Sakai, Hideaki Yokoyama, Kohzo Ito	2281
2Pa013	Alignment of conjugated compounds based on the aromatic ring-layered	

	polymer scaffold	
	<u>Yuichi Tsuji</u> , Yasuhiro Morisaki, Yoshiki Chujo.....	2282
2Pb014	Characteristics of Polymers Containing Tetra-coordinated Gallium Atoms in their Main Chains	
	<u>Yoshinobu Onishi</u> , Takuya Matsumoto, Kazuo Tanaka, Yoshiki Chujo.....	2283
2Pa015	Lewis Acid Adducts of Benzocarcogendiazole-based Conjugated Polymers	
	<u>Shotaro Hayashi</u> , Toshio Koizumi	2284
2Pb016	Film Modification of Conjugated Polymers having Lewis Base Unit via Various Lewis Acids	
	<u>Shotaro Hayashi</u> , Toshio Koizumi	2285
2Pa017	Synthesis of block copolymer containing photodegradable poly (olefin sulfone)s segments	
	<u>Makoto Kiya</u> , Takeo Sasaki, Minoru Matsuda.....	2286
2Pb018	Synthesis and properties of pyrene-layered polymer and oligomers	
	<u>Shotaro Shibata</u> , Tatsuya Nakano, Yasuhiro Morisaki, Yoshiki Chujo	2287
2Pa019	Synthesis and properties of regioregular cyclic P3HT	
	Kazuyuki Ishikawa, <u>Masamichi Sato</u> , Naohiro Kameta, Mitsutoshi Masuda, Takuya Yamamoto, Yasuyuki Tezuka	2288
2Pa021	Synthesis of Thiophene-Fused Boron Dipyrromethene-Based Near-Infrared Absorptive Conjugated Polymers	
	<u>Ryosuke Yoshii</u> , Honami Yamane, Kazuo Tanaka, Yoshiki Chujo	2289
2Pb022	Multiply Controlled Star Polymers and Stereoregular Polymers from Hydrogen-Bonding Self-Assembly Monomers	
	<u>Tadashi Miyazaki</u> , Takaya Terashima, Mitsuo Sawamoto	2290
2Pa023	Design of Functional Microgels from Arm-Cleavable Star Polymers	
	<u>Saki Nishioka</u> , Takaya Terashima, Mitsuo Sawamoto.....	2291
2Pb024	Single-Chain Folding Functional Polymers by Living Radical Polymerization	
	<u>Kazuma Matsumoto</u> , Takaya Terashima, Mitsuo Sawamoto	2292
2Pa025	Control of Aggregation Induced Emission Based on Trifunctional <i>o</i> -Carborane Containing Dyes	
	<u>Hirofumi Naito</u> , Masato Tominaga, Yasuhiro Morisaki, Yoshiki Chujo	2293
2Pb026	Synthesis and polymerization of ring-fused galloles	
	<u>Takuya Matsumoto</u> , Kazuo Tanaka, Yoshiki Chujo	2294
2Pa027	Synthesis and Properties of Chiral π -Conjugated Structures Based on the Planar Chiral Tetrasubstituted [2.2]Paracyclophane Framework	
	<u>Masayuki Gon</u> , Yasuhiro Morisaki, Yoshiki Chujo.....	2295
2Pb028	Precise synthesis of sequentially different triblock ter(co)polymers composed of polystyrene derivatives by means of linking reaction of end-functionalized polymers with anionic living polymers	
	<u>Ryuji Konno</u> , Yuri Matsuo, Raita Goseki, Akira Hirao, Takashi Ishizone.....	2296
2Pa029	Synthesis of poly(vinyl ether) macromonomers with phenylacetylene and graft copolymers by polymerization of poly(vinyl ether) macromonomers	
	<u>Takeshi Namikoshi</u> , Ryosuke Sasaki, Miki Murata, Shinji Watanabe	2297
2Pb030	Synthesis of thiophene derivatives having boroxine rings	
	<u>Azusa Nishimura</u> , Masahiro Fujita, Yuko Takeoka, Masahiro Rikukawa	2298
2Pa031	Synthesis and properties of sun-shaped polymer via living anionic polymerization with cyclic macroinitiator	
	<u>Suguru Nakano</u> , Takayuki Kohno, Kaoru Adachi, Yasuhisa Tsukahara	2299
2Pb032	Star-shaped polymer by living anionic polymerization with lithiated alkyl multisubstituted aromatic compound as multifunctional initiator	
	<u>Ryo Shimizu</u> , Kaoru Adachi, Yasuhisa Tsukahara.....	2300
2Pa033	Synthesis of multi-functionalized RAFT reagents based on the functional group	

	transformation of the precursor ATRP initiators and their application to the preparation of star polymers	
	<u>Yuuki Somekawa</u> ,Tomoyuki Matsumoto,Jin Motoyanagi,Masahiko Minoda.....	2301
2Pb034	Synthesis of Aromatic Ladder-type Polyamide Using Phenyl Ester Monomer	
	<u>Jinya Kuramochi</u> ,Kazuki Kishimoto,Kazuto Takaishi,Akihiro Yokoyama	2302
2Pa035	Synthesis of Phenylene ethynylenes Oligomers and Changes of Fluorescence Properties by Core Structures	
	<u>Naoya Adachi</u> ,Masafumi Sugeno,Ryo Itagaki.....	2303
2Pb036	Synthesis and characterization of 3,4-phenylenedioxythiophene copolymers	
	<u>Kosuke Shibasaki</u> ,Masashi Kijima	2304
2Pa037	Synthesis of Well-Defined, Water-Soluble Hyperbranched Polyamide by Chain-Growth Condensation Polymerization of AB ₂ Monomer Bearing Tri(ethylene glycol) Esters	
	<u>Yoshihiro Ohta</u> ,Kento Sakurai,Jun Matsuda,Tsutomu Yokozawa.....	2305
2Pb038	Simultaneous Bottom-up Fabrication of Nanostructured Materials by π -Allylnickel-catalyzed Block Copolymerization of 1,3-Butadiene and Allene Derivatives Having Polar Functional Groups	
	<u>Kiyotaka Fujiwara</u> ,Shinsuke Inagi,Ikuyoshi Tomita.....	2306
2Pa039	An efficient synthesis of ortho-linked arylene conjugated polymers using a Diels-Alder reaction of cross-conjugated polymers with benzyne	
	<u>Tsuyoshi Kameda</u> ,Shotaro Hayashi,Toshio Koizumi	2307
2Pb040	Synthesis and Physical Properties of Cycloolefin Polymers / Poly(methyl methacrylate) Copolymer	
	<u>Shinhei Kudo</u> ,Daisuke Sasaki,Toru Hoshi,Toshiki Hagiwara,Takashi Sawaguchi .	2308
2Pa041	Synthesis and optical properties of novel cyclic aromatic amides by the cyclization of anthracene derivatives functionalized at the 9,10-positions	
	<u>Ryohei Yamakado</u> ,Shin-ichi Matsuoka,Masato Suzuki,Koji Takagi,Daisuke Takeuchi,Isao Azumaya	2309
2Pb042	Synthesis and Characterization of Conjugated Polymers Containing Azaphenylene	
	<u>Masataka Hirose</u> ,Kazuo Tanaka,Yoshiki Chujo	2310
2Pa043	Synthesis and Basic Chemical Properties of π -Conjugated Polymer Containing Indigo Unit	
	<u>Hiroki Fukumoto</u> ,Takakazu Yamamoto	2311
2Pb044	Synthesis and Characterization of Sulfur-Bridging POSS Network Polymers for High Refractive Index Materials	
	<u>Honami Yamane</u> ,Kazuo Tanaka,Yoshiki Chujo.....	2312

New Polymeric Materials Based on Element-Blocks -The Future Created by Hybrid Polymers

2Pb046	Synthesis of Dithienogermole-containing Conjugated Polymers and Applications to Polymer Solar Cells	
	<u>Joji Ohshita</u> ,Masayuki Miyazaki,Yoshihito Kunugi.....	2849
2Pa047	Synthesis of bridged alkoxide having rigid spacer, and the performance of the separation membrane prepared from the rigid bridged alkoxide	
	<u>Haruna Muragishi</u> ,Tomonobu Mizumo,Toshinori Tsuru,Joji Ohshita	2851
2Pb048	Surface modification of TiO ₂ used 2-Isocyanatoethyl methacrylate and preparation of high refractive index film	
	<u>Ayato Higa</u> ,Masato Fujita,Naokazu Idota,Kimihiko Matsukawa,Yoshiyuki Sugahara..	2853

Polymer Physics: Structure and Properties

2Pa049	Changes in structure and characteristic features of fluorine containing aromatic polyamide nanofibers <u>Yayoi Yoshioka</u> , Katsuya Asao.....	3284
2Pb050	Size Control of Vesicles Formed by Polyion Complex <u>Keita Nakai</u> , Shin-ichi Yusa, Kazuhiko Ishihara	3285
2Pa051	Evaluation of responses of polyion complex vesicles to electric-fields <u>Daiki Sueyoshi</u> , Akihiro Kishimura, Hidehiro Oana, Yasutaka Anraku, Masao Washizu, Kazunori Kataoka	3286
2Pb052	Preparation of thermo-responsive polyion complex vesicles <u>Atsushi Nagae</u> , Shin-ichi Yusa, Kazuhiko Ishihara.....	3287
2Pa053	Association behavior of pendant polydimethylsiloxane and phosphorylcholine groups containing diblock copolymer <u>Keita Kuroda</u> , Shin-ichi Yusa, Kazuhiko Ishihara, Kenichi Morigaki.....	3288
2Pb054	Surface Orientations of tricyano furan chromophores in poly (methyl methacrylate) <u>Atsushi Sugita</u> , Kazuma Ito, Yasuaki Sato, Ryosuke Takasu, Yoshimasa Kawata, Shigeru Tasaka	3289
2Pa055	Adhesion of ultra-high molecular weight polyethylene plates hydrophilically surface-modified by photografting technique <u>Haruka Yoshida</u> , Kazunori Yamada.....	3290
2Pb056	Preparation of O/W emulsions via phase inversion emulsification using amphiphilic block polymers synthesized by atom transfer radical polymerization <u>Yusuke Sasaki</u> , Masakatsu Kasuya, Michinari Kohri, Tatsuo Taniguchi, Keiki Kishikawa	3291
2Pa057	Self-healing behavior of block-copolymers <u>Suphat Korkiatithaweetchai</u> , Sunatda Arayachukiat, Shogo Nobukawa, Masayuki Yamaguchi.....	3292
2Pb058	Stabilization of it-PMMA/st-PMAA stereocomplex thin film by layer-by-layer assembly crosslinking <u>Tatsuaki Ueyama</u> , Hiroharu Ajiro, Mitsuru Akashi.....	3293
2Pa059	Formation of a colloidal sponge by assembling core-shell nanoparticles at the air-water interface <u>Yuya Akutsu</u> , Yuuka Fukui, Keiji Fujimoto	3294
2Pb060	Quinone oxidation of bisphenol compounds by oxidoreductase and subsequent quinone adsorption on chitosan beads <u>Ryohei Tsuji</u> , Yuji Kimura, Ayumi Kashiwada, Kazunori Yamada	3295
2Pa061	Removal of bisphenol A and its derivatives by the combined use of oxidoreductase and chitosan and an immobilization of enzyme <u>Kousuke Sakai</u> , Yuji Kimura, Ayumi Kashiwada, Kazunori Yamada	3296
2Pb062	Estimation of the optimum conditions for removal of bisphenol A and its derivatives with polyphenol oxidase and chitosan <u>Ayumi Takahashi</u> , Yuji Kimura, Ayumi Kashiwada, Kazunori Yamada	3297
2Pa063	Crystallization of PLLA ultrathin films on liquids <u>Futoshi Matsuda</u> , Masaaki Nakagiri, Satoshi Irie, Takashi Sasaki.....	3298
2Pb064	Crystallization of isotactic polystyrene ultrathin films on liquids <u>Masaaki Nakagiri</u> , Futoshi Matsuda, Satoshi Irie, Takashi Sasaki.....	3299
2Pa065	Interfacial properties of ionic polymer having a hydrophobic end group prepared via ATRP <u>Eri Kitani</u> , Masanobu Murou, Hiromi Kitano, Masahiro Fujita, Mizuo Maeda, Yoshiyuki Saruwatari	3300

2Pb066	AFM investigation of vapor phase radical polymerization on a substrate <u>Saki Ito</u> , Kouichiro Shibata, Jiro Kumaki	3301
2Pa067	Origin of Contrast Inversion in AFM Height Images of Isolated Polymer Chains Yoshiyuki Saito, <u>Jiro Kumaki</u>	3302
2Pb068	Macroscopic orientation and non-linear optical properties of polyaspartates thin film exhibiting helix sense inversion <u>Masaaki Ito</u> , Hidemine Furuya	3303
2Pa069	Synthesis of Poly(2-Methacryloyloxyethyl phosphorylcholine)-grafted Au Nanoparticles by Surface-initiated Atom Transfer Radical Polymerization <u>Yukiya Kitayama</u> , Toshifumi Takeuchi	3304
2Pb070	Free-standing polymer brush film based on a colorless polydopamine thin layer <u>Michinari Kohri</u> , Yoshihiro Shinoda, Hiroto Kohma, Tatsuo Taniguchi, Keiki Kishikawa	3305
2Pa071	Hierarchical Polymer Encapsulation via Colorless Polydopamine Thin Layer as a Basis <u>Hiroto Kohma</u> , Michinari Kohri, Tatsuo Taniguchi, Keiki Kishikawa	3306
2Pb072	Adherent Dependence of Peel Behavior of "Warm-Off" Type Acrylic Adhesives <u>Ryo Shibahara</u> , Minoru Nanchi, Shinichiro Kawahara, Hiroto Murakami	3307
2Pa073	Light triggered transition of block copolymer vesicles into micelles <u>Shrivastava Saurabh</u> , Hideki Matsuoka	3308
2Pb074	Formation of Surface Texturing of Metal Nanoparticle/POSS Hybrid Film <u>Akira Watanabe</u> , Gang Qin	3309

Functional Polymers and Polymer Functions

2Pb076	Properties of Solid Polymer Electrolytes Based on Vinyl Polymers with Pendant Cyclic Groups <u>Misaki Horiuchi</u> , Naoki Sawada, Takahiro Uno, Masataka Kubo, Takahito Itoh	3797
2Pa077	Characteristics of Polymer Electrolytes Based on Polyanionic Lithium Salts <u>Masaru Heishi</u> , Hiroki Niwa, Takahiro Uno, Masataka Kubo, Takahito Ith	3798
2Pb078	Synthesis and Characterization of Poly(phenylene)-Based Electrolytes Having Hydrophobic Groups (I) -Effect of Alkyl Chain Length- <u>Yusuke Kawano</u> , Satoru Obayashi, Masahiro Fujita, Yuko Takeoka, Masahiro Rikukawa	3799
2Pa079	Synthesis and characterization of graft-type hydrocarbon electrolytes(II)-Effect of graft density and chain length- <u>Takuya Nishinuma</u> , Masahiro Fujita, Yuko Takeoka, Masahiro Rikukawa	3800
2Pb080	Ion-conductive Properties of Polyether Electrolyte/Silica Nanofiber Composite Membranes <u>Kodai Anzai</u> , Satoki Ishibe, Yuichi Konosu, Hidetoshi Matsumoto, Yoichi Tominaga ...	3801
2Pa081	Preparation and characterization of solid polymer electrolytes from poly(methacrylamide) derivative with branched side chains of terminal nitrile groups <u>Kousuke Shinke</u> , Hiromori Tsutsumi	3802
2Pb082	Electrochemical performance of poly(oxetane)-based electrolytes with branched side chains of terminal nitrile groups <u>Yohei Nakano</u> , Hiromori Tsutsumi	3803
2Pa083	Synthesis and Properties of Novel Poly(perfluoroalkylsulfonimide) Electrolytes <u>Yoichi Hosokawa</u> , Greg Shafer, Hiromitsu Tanaka, Akihiro Shinohara, Akihiko Koiwai, Atsuko Muto, Naohiro Hoshikawa, Yuko Murayama, Kenji Imai, Satoru Yamamoto, Shiaki Hyodo, Naoki Hasegawa, Masaya Kawasumi	3804
2Pb084	Synthesis of Crosslinked Bifunctional Electrolyte Membranes with Imide Bond and their Properties	

	<u>Naoki Hasegawa</u> ,Hiromitsu Tanaka,Akihiro Shinohara,Yu Morimoto,Masaya Kawasumi.....	3805
2Pa085	Synthesis and Characterization of Polyphenylene-Based Electrolytes Having Phosponic Acid Groups (III)-Effect of Alkylphosphonic Acid Group- <u>Shinji Kono</u> ,Wataru Furihata,Masahiro Fujita,Yuko Takeoka,Masahiro Rikukawa..	3806
2Pb086	preparation and evaluation of interpenetrating polymer network electrolyte membrane with charge-transfer complex <u>Masamichi Nishihara</u> ,Liana Christiani,Kazunari Sasaki.....	3807
2Pa087	The effect of bond on main chain and methyl side-chain to conductivity of polymer solid electrolytes <u>Yuta Yamada</u> ,Suguru Motokucho,Ken Kojio,Kohji Yoshinaga.....	3808
2Pb088	Electrochemical Properties of Electrolytes Based on Poly-Borylated-Macrocycles <u>Ryo Mitsui</u> ,Raman Vedarajan,Noriyoshi Matsumi	3809
2Pa089	Electrochemical Properties of Ionic Liquid/Orbanoboron Electrolyte Systems Emari Tamaru,Raman Vedarajan, <u>Noriyoshi Matsumi</u>	3810
2Pb090	Synthesis of Ruthenium Complex Containing Polymer and its Application to Photo Rechargeable Air Battery <u>Akinari Takahashi</u> ,Kenichi Oyaizu,Hiroyuki Nishide	3811
2Pa091	Fabrication of a carbon material with continuous porous structure and its application for a fuel cell electrode <u>Takahiro Matsuta</u> ,Kazuki Yoshii,Susumu Kuwabata,Hiroshi Uyama,Jyun Maruyama	3812
2Pb092	Durability of Alkaline Ion Exchange Electrolyte with Cyclic Ammonium Salt toward Hydrazine Hydrate <u>Akihiro Shinohara</u> ,Naoki Hasegawa,Susumu Yamaguchi,Hideyuki Shishitani,Hirohisa Tanaka	3813
2Pa093	Polymer electrolyte membranes for unhumidified PEFC using polymers having guanidino groups on their side chains <u>Shohei Nishikawa</u> ,Akio Takahashi,Toshiyuki Oyama	3814
2Pb094	Preparation and electrocatalytic water oxidation of a mesoporus Iridium oxide film using an amphipathic triblock copolymer template <u>Naoto Abe</u> ,Chandra Debraj,Kenji Saito,Tatsuto Yui,Masayuki Yagi	3815
2Pa095	Study on Conditions for Degradation of Cellulose by Solution Plasma Process and Chemical Elucidations of the Degraded Products <u>Shimpei Nemoto</u> ,Anyarat Watthanaphanit,Nagahiro Saito.....	3816
2Pb096	The first principle study for incipient reaction of the perfluorosulfonic acid molecule in low hydration level <u>Hironori Sakai</u> ,Takashi Tokumasu.....	3817

Polymer Materials for Energy-related Devices

2Pb098	Synthesis and Properties of Sulfonated Poly(arylene ether) Electrolyte Membranes with Oxadiazole Groups <u>Xin Wang</u> ,Junpei Miyake,Kenji Miyatake,Masahiro Watanabe.....	4048
2Pa099	Preparation of high proton conductive nanofibers and their application to polymer electrolyte membranes <u>Genki Ito</u> ,Manabu Tanaka,Hiroyoshi Kawakami.....	4050
2Pb100	Synthesis and Evaluation of Poly(phenylene)-Based Ionomers with π -Conjugated Unit (III) -Effect of Molecular Chain Length- <u>Kohei Seto</u> ,Satoshi Miura,Masahiro Fujita,Yuko Takeoka,Masahiro Rikukawa...	4052
2Pa101	In-situ observation on the initial conditioning process of polymer electrolyte fuel cell. -Development on electrolyte membrane microstructure and cell	

	performance-	
	<u>Satoru Ueda</u> , Yoshio Kobayashi, Yasuyuki Tsutsumi, Satoshi Koizumi	4054
2Pb102	Fabrication of organic thin film solar cells using oligothiophene and fullerene	
	<u>Masashi Nakamura</u> , Takeshi Yamao, Shu Hotta	4056
2Pa103	Surface modification of organic semiconductor films by using fluoroalkyl chains and analysis of segregation behavior	
	<u>Seiichiro Izawa</u> , Kazuhito Hashimoto, Keisuke Tajima.....	4058
2Pb104	Dye-sensitized solar cells using polymer dyes and their electrochromic property	
	<u>Naoki Sasagawa</u> , Eri Amasawa, Minoru Taya, Mutsumi Kimura.....	4060
2Pa105	Growth of Highly Conductive Nanodomains and Macroscopic Charge Transport of Poly(3-hexylthiophene) Thin Films Studied by Conductive AFM	
	<u>Miki Osaka</u> , Hiroaki Benten, Hideo Ohkita, Shinzaburo Ito.....	4062
2Pb106	Measurement of Lithium-Ion Transport Numbers for Poly(alkylene carbonate)-based Electrolytes	
	<u>Vannasa Nanthana</u> , Yoichi Tominaga.....	4064
2Pa107	Fast ionic conduction through lithium borate having sulfide groups	
	<u>Yutarou Hanawa</u> , Makoto Moriya, Wataru Sakamoto, Toshinobu Yogo.....	4066
2Pb108	Construction of ionic conduction paths using ordered arrangements of lithium complexes	
	<u>Yoshiko Hayakawa</u> , Makoto Moriya, Wataru Sakamoto, Toshinobu Yogo	4068

Biopolymers and Biorelated Polymers

2Pb110	Development of Membrane-Penetrating Functional Amphiphiles	
	<u>Kaori Umetsu</u> , Takahiro Muraoka, Kazushi Kinbara	4501
2Pa111	The fluorescence imaging of neuronal cells cultured on the plasmonic chip under the inverted fluorescence microscope	
	<u>Tsuyoshi Fujita</u> , Chie Hosokawa, Junji Nishii, Keiko Tawa.....	4502
2Pb112	Solution properties of thermoresponsive sulfobetaine block copolymers	
	<u>Kanna Muramatsu</u> , Nobuyuki Morimoto, Makoto Suzuki.....	4503
2Pa113	Mechanism of Catalase Activity of Mn-porphyrin/Polyampholyte Complexes	
	<u>Riku Kubota</u> , Shoichiro Asayama, Hiroyoshi Kawakami	4504
2Pb114	Morphology change of peptide nano-assembly based on helix-sheet transition and its function	
	<u>Naoyuki Hirata</u> , Tomonori Waku, Shigeru Kunugi, Naoki Tanaka	4505
2Pa115	Design and synthesis of a peptide helix featured by C-terminal functional group	
	<u>Sakiko Fujimura</u> , Yoshihito Inai.....	4506
2Pb116	Synthesis of helical peptide having chiral residue at the C-terminus and domino-type control of helicity	
	<u>Keisuke Kurita</u> , Yoshihito Inai	4507
2Pa117	Synthesis and chiral interaction of chiral oligopeptide based on unusual aromatic amino acids	
	<u>Tatsuya Hiramatsu</u> , Yoshihito Inai.....	4508
2Pb118	Theoretical studies of helical structures in dehydroamino acid-containing peptides	
	<u>Yoshihito Inai</u> , Keisuke Kurita, Sakiko Fujimura.....	4509
2Pa119	Synthesis of dendrimer coated by oligopeptides based on unusual amino acids and its solution structure	
	<u>Satoko Imai</u> , Yoshihito Inai	4510
2Pb120	Design and synthesis of a molecular material possessing multiple helical segments	
	<u>Rena Banno</u> , Yoshihito Inai	4511
2Pa121	Association properties of oligopeptides containing terminal chiral residue(s)	
	<u>Yoko Nakazawa</u> , Yoshihito Inai	4512
2Pb122	Design and synthesis of an amphiphilic peptide based on unusual amino acids	

	<u>Ryo Miyase, Yoshihito Inai</u>	4513
2Pa123	Design of Novel Chiral Boric Ester Compound and Their Molecular Recognition <u>Yogesh Malhotra, Raman Vedarajan, Noriyoshi Matsumi</u>	4514
2Pb124	Construction of Fluorescent Protein-Imprinted Cavity utilizing a reversible bonding <u>Hirobumi Sunayama, Yukiya Kitayama, Tooru Ooya, Toshifumi Takeuchi</u>	4515

Presentation Time

<c=13:20~14:00>

<d=14:00~14:40>

Polymer Chemistry: Synthesis and Reactions

2Pc001	Synthesis and self-assembly of Miktoarm Star-branched Polymer by Utilized 1,1-Diphenylethylene Derivatives Possessing Dioxolane Difunctions <u>Raita Goseki, Emi Akemine, Akira Hirao, Takashi Ishizone</u>	2313
2Pd002	Synthesis, structure, and optical properties of poly(<i>m</i> -benzamide)s with the conjugated system at the meta-position <u>Yuma Nishikawa, Ryohei Yamakado, Shin-ichi Matsuoka, Masato Suzuki, Koji Takagi</u> .	2314
2Pc003	Syntheses and properties of alkylene-linked star-shaped POSS derivatives <u>Yuta Yasumoto, Kensuke Naka</u>	2315
2Pd004	Synthesis of Branched Polymers by Living Cationic Polymerization Using Monomers or Polymers with Acetal Moiety as Selective Initiating Sites <u>Norifumi Yokoyama, Arihiro Kanazawa, Shokyoku Kanaoka, Sadahito Aoshima</u> ...	2316
2Pc005	Precise Core-First Star Polymer Synthesis via Living Cationic Polymerization by Highly Efficient Initiation from Deliberately-Introduced Acetal Moieties in Microgel Core <u>Tatsuya Suzuki, Kumiko Ono, Arihiro Kanazawa, Shokyoku Kanaoka, Sadahito Aoshima</u>	2317
2Pd006	Highly efficient re-initiation reaction from stable ether-type terminals of <i>p</i> -alkoxystyrene polymers in cationic polymerization: living polymerization of various monomers and block copolymer synthesis <u>Natsuki Okada, Arihiro Kanazawa, Shokyoku Kanaoka, Sadahito Aoshima</u>	2318
2Pc007	Facile One-Step Synthesis of Star-Shaped Polymers by Living Cationic Polymerization Based on Monomer-Selectivity <u>Mayuka Yamada, Arihiro Kanazawa, Shokyoku Kanaoka, Sadahito Aoshima</u>	2319
2Pd008	Synthesis of cyclic polymers by RAFT polymerization of styrene and MMA using cyclic chain transfer agent <u>Hisao Kato, Yuuta Nakagawa, Hideaki Oike</u>	2320
2Pc009	Synthesis and optoelectronic properties of ladder-type imidazolium oligomers modifying the electron state <u>Kazuma Kusafuka, Youhei Ito, Kakuya Miwa, Shin-ichi Matsuoka, Masato Suzuki, Koji Takagi</u>	2321
2Pd010	Precise synthesis of α -methylene- γ -butyrolactone on the basis of living anionic polymerization <u>Tomoyasu Hirai, Xinue Zheng, Masanao Sato, Yuji Higaki, Atsushi Takahara</u>	2322
2Pc011	Synthesis of cyclic polyisocyanate by ring-closing metathesis reaction <u>Aoi Yanagihara, Shunsuke Yabuki, Hideaki Oike</u>	2323
2Pd012	Synthesis and properties of polysulfone and poly(tetrahydrofuran) multiblock copolymers <u>Yuki Aikawa, Kazuya Matsumoto, Mitsutoshi Jikei</u>	2324
2Pc013	One-Step Synthesis of Star Shaped Polymers via RAFT Polymerization <u>Yuuki Kawamoto, Shinji Sugihara, Yasushi Maeda</u>	2325

2Pd014	Synthesis of Graft Polymer by Radical Polymerization of Well-Defined Hyperbranched Polyamide Macromonomer <u>Jun Matsuda</u> , Yoshihiro Ohta, Tsutomu Yokozawa	2326
2Pc015	Synthesis of methacrylate-type block copolymers having vinyl groups and silanol groups in the side chain by RAFT polymerization <u>Kazuhiro Yoshida</u> , Megumi Akiyama, Hideharu Mori	2327
2Pd016	Ring-expansion polymerizations of styrene by cyclic TEMPO-derivatives prepared by ring-closing <u>Ryo Yanagisawa</u> , Atsushi Narumi, Seigou Kawaguchi	2328
2Pc017	Preparation and Characterization of Unimolecular Star-shaped Polymer Particles via Self-assembling RAFT Polymerization <u>Sumika Sato</u> , Atsushi Narumi, Seigou Kawaguchi	2329
2Pd018	Synthesis and Structural Evaluation of Polymer Particle Having Unique Surface Based on Living Coordination Dispersion Copolymerization of Perfluoroalkyl-substituted Allenes <u>Harumi Okumura</u> , Takahiro Omura, Hiroshi Yamauchi, Yoshiyuki Oguchi, Shinsuke Inagi, Ikuyoshi Tomita	2330
2Pc019	Solid-Phase Organic Reactions on Surface-Functionalized Polymer Particles Obtained by Living Dispersion Coordination Polymerization of Allene Derivatives <u>Akira Yamauchi</u> , Takahiro Omura, Hiroshi Yamauchi, Yoshiyuki Oguchi, Shinsuke Inagi, Ikuyoshi Tomita	2331
2Pd020	Synthesis of aromatic polyamide dendrimers with polyhedral oligomeric silsesquioxane cores <u>Kazuya Matsumoto</u> , Kunio Nishi, Kimiko Ando, Mitsutoshi Jikei	2332
2Pc021	Synthesis of polyamide-polypropyleneoxide multiblock copolymer with controlled architecture <u>Shinya Masukawa</u> , Shigeo Sasaki, Yoshiyuki Oishi, Yuji Shibasaki	2333
2Pd022	Preparation of Diamond Particle Decorated with Carbon Nanotube <u>Wataru Kimura</u> , Takashi Kawahara, Kumi Hashimoto, Shingo Tamesue, Kazuhiro Fujiki, Takeshi Yamauchi, Norio Tsubokawa	2334
2Pc023	Synthesis of core-shell organic-inorganic hybrid particle <u>Yutaku Sato</u> , Takashi Kawahara, Kumi Hashimoto, Shingo Tamesue, Takeshi Yamauchi, Norio Tsubokawa	2335
2Pd024	Grafting of antibacterial and antifungal polymer having thiazole moieties onto silica nanoparticle surface <u>Keita Konno</u> , Takashi Kawahara, Kumi Hashimoto, Shingo Tamesue, Takeshi Yamauchi, Norio Tsubokawa	2336
2Pc025	Dispersibility control and application to composite plating of surface modified nanodiamond by grafting <u>Inoh Cha</u> , Wataru Kimura, Kumi Hashimoto, Shingo Tamesue, Kazuhiro Fujiki, Takeshi Yamauchi, Norio Tsubokawa	2337
2Pd026	Preparation and Properties of Antioxidant Intercalated Layered Double Hydroxide <u>Noriaki Nakajima</u> , Takashi Kawahara, Kumi Hashimoto, Shingo Tamesue, Takeshi Yamauchi, Norio Tsubokawa	2338
2Pc027	Synthesis of thermoresponsive polysilsesquioxane having urea and amino structures <u>Hiroyuki Takushima</u> , Syun-nosuke Tanaka, Shin-ichi Yamamoto, Osamu Moriya ..	2339
2Pd028	Synthesis of Donor-Acceptor Type Conjugated Polymers Containing 2-Substituted Benzimidazole in the Main Chain Kenjiro Onimura, <u>Munetoshi Nakamura</u> , Kazuhiro Yamabuki, Tsutomu Oishi	2340
2Pc029	Polymerization Reactivity in Solid State of Cocrystals Composed of Tetrakis(alkoxycarbonyl)quinodimethanes and Quinoid Acceptors	

	<u>Takaya Fukusima</u> , Motonori Yamamura, Takahiro Uno, Masataka Kubo, Takahito Itoh, Norimitsu Tohnai, Mikiji Miyata	2341
2Pd030	Synthesis and properties of multiblock copolymer composed of poly(aryl ether sulfone) and branched poly(tetrahydrofuran)	
	<u>Lam Ha Tho</u> , Kazuya Matsumoto, Mitsutoshi Jikei	2342
2Pc031	Preparation and structure of the branched polymers composed of poly(<i>n</i> -hexylisocyanate) as a rod-like polymer using decomposition	
	<u>Shingo Nakai</u> , Kazunori Se.....	2343
2Pd032	Synthesis of Block Copolymers Possessing Radical Moieties Based on π -Allylnickel-Catalyzed Living Coordination Copolymerization of Allene Derivatives	
	<u>Hiroshi Eguchi</u> , Shinsuke Inagi, Ikuyoshi Tomita.....	2344
2Pc033	Gelation Behavior and the Polymerization Reactivity of Tetrakis(2-phenoxyethoxycarbonyl)quinodimethane	
	<u>Chimaki Iida</u> , Satoshi Yamashita, Takahiro Uno, Masataka Kubo, Takahito Itoh, Norimitsu Tohnai, Mikiji Miyata.....	2345
2Pd034	Convenient generation growth of polyacrylate dendrimers through alternate multi-addition (AMA) reaction	
	<u>Kazuki Ichikura</u> , Kunihiro Ichimura, Ken'ichi Aoki	2346
2Pc035	Preparation and characterization of (Polystyrene) _n - <i>star</i> -(Polyisoprene) _m heteroarm star copolymers <i>via</i> anionic living polymerization of macromonomers	
	<u>Shiyou Amaya</u> , Teppei Yamazaki, Kazunori Se	2347
2Pd036	Synthesis and Electrolytic Polymerization Behavior of Liquid-Crystalline Tropolonate Monomers with Quaternary Ammonium Cation	
	<u>Yuki Konuma</u> , Ryosuke Hashimoto, Akihiko Kanazawa	2348
2Pc037	Electrolytic Polymerization Behavior of Liquid-Crystalline Tropolone Alkyl Ethers	
	<u>Ryosuke Hashimoto</u> , Yuki Konuma, Akihiko Kanazawa	2349
2Pd038	Photochemical Synthesis of Polymeric Carbon Sulfides in Binary Mixtures of Tertiary Phosphines and Carbon Disulfide	
	<u>Nariaki Mano</u> , Yuki Konuma, Yuma Tanaka, Akihiko Kanazawa	2350
2Pc039	Thermoresponsive properties and layer block formation by star-shaped dendrimer having block terpolymers	
	<u>Takahiro Niwa</u> , Keigo Aoi	2351
2Pd040	Molecular comprehension and synthesis of functional dendrimers with conjugated molecules	
	<u>Hiroki Sugiyama</u> , Naoya Adachi	2352

Polymer Physics: Structure and Properties

2Pd042	Structural analysis of reverse micelles in protic / aprotic ionic liquid mixture	
	<u>Takumi Kusano</u> , Kei Hashimoto, Kenta Fujii, Mitsuhiro Shibayama.....	3310
2Pc043	Discussion of "the polymer topology effect" in two-dimensional films at air/water interface from the point of view of molecular orientation and surface morphology	
	<u>Masamichi Hashimoto</u> , Qi Meng, Satoshi Honda, Yasuyuki Tezuka, Takuya Yamamoto, Astuhiro Fujimori	3311
2Pd044	Effect of Motion of Photomask on Molecular Alignment Induced by Photopolymerization	
	<u>Kyohei Hisano</u> , Jun-ichi Mamiya, Motoi Kinoshita, Atsushi Shishido	3312
2Pc045	Formation of higher order structures in binary organic thin films prepared by a solution-cast technique	
	<u>Takuya Hibino</u> , Keichi Oka, Kenichi Sasaki, Yuji Yoshida, Atsushi Kubono.....	3313
2Pd046	Adsorption behavior of bovine serum albumin onto a polymer thin film studied by ATR-IR spectroscopy II ~relationship between denaturation and adsorption	

	of the protein~	
	<u>Kazuaki Rikiyama</u> , Yukiteru Katsumoto, Takeshi Hasegawa	3314
2Pc047	Study of the interfacial reaction mechanism of the epoxy adhesive with polyamide by FT-IR-ATR method and dry polishing	
	<u>Yukiko Izumi</u>	3315
2Pd048	Local Glass Transition Temperature at Polystyrene / Silica Interface	
	<u>Yohei Miwa</u> , Tomomi Sakaguchi, Shoichi Kutsumizu	3316
2Pc049	Lubrication of immobile film prepared from cationic polyelectrolyte and anionic surfactant IV - Effect of polyelectrolyte molecular weight -	
	<u>Masaki Goto</u> , Benedikte Kauache Lejla, Taishi Yamamoto, Yoshiaki Hirano, Kenji Hisada	3317
2Pd050	Microwrinkle Formation Using Thermal Expansion of Polymers and Evaluation of Anisotropy	
	<u>Chika Matoba</u> , Eriko Sato, Akikazu Matsumoto	3318
2Pc051	Preparation of chitosan microgel particles using monodisperse W/O emulsions and their adsorption property for dye separation	
	Hideaki Takada, <u>Takashi Kuroiwa</u> , Isao Kobayashi, Kunihiro Uemura, Akihiko Kanazawa	3319
2Pd052	Efficient preparation of material-entrapped liposomes using multiple emulsions stabilized by polymeric emulsifiers	
	<u>Kaname Horikoshi</u> , Takashi Kuroiwa, Sousaku Ichikawa, Akihiko Kanazawa	3320
2Pc053	Mechanical and Physical Properties of Ultrathin Nanoporous Carbon Film	
	<u>Yoshihisa Fujii</u> , Sadaki Samitsu, Izumi Ichinose	3321
2Pd054	Fabrication of vertically oriented nano-channel in a block copolymer film and application of the film	
	<u>Akinori Matsuda</u> , Satoshi Oya, Shinichi Sakurai, Tsukasa Miyazaki, Katsuhiko Yamamoto	3322
2Pc055	Fabrication of Polystyrene-Polydopamine Raspberry-like Particles	
	<u>Yuri Nannichi</u> , Hiroto Kohma, Michinari Kohri, Tatsuo Taniguchi, Keiki Kishikawa	3323
2Pd056	Characterization of surface molecular motion of polystyrene brush thin films	
	<u>Hiroshi Arita</u> , Yuji Higaki, Atsushi Takahara	3324
2Pc057	Interface Structure and Surface Mechanical of poly(phenyleneoxide)/polystyrene bilayer film	
	<u>Hiroshi Arita</u> , Yuji Higaki, Atsushi Takahara	3325
2Pd058	Structure of Water in the Vicinity of Charge-neutralized Surface As Examined by Sum Frequency Generation Spectroscopy	
	<u>Hiromi Kitano</u> , Kouji Nomura, Tadashi Nakaji-hirabayashi, Makoto Gemmei-ide, Hidenori Noguchi, Kohei Uosaki, Kohji Ohno, Yoshiyuki Saruwatari ..	3326
2Pc059	Microphase-Separated Structure for Block Copolymer Thin Films on Polymer-Adsorbed Silicon Substrates	
	<u>Kieu Diem</u> , Naoya Torikai, Masami Kawaguchi	3327
2Pd060	Shear stress induced fragmentation of microtubules	
	<u>Arif Md. Rashedul Kabir</u> , Daisuke Inoue, Hiroyuki Mayama, Kazuki Sada, Akira Kakugo	3328
2Pc061	Structure Transition Behavior of Main Chain of Polyaspartates Consisting of Alkyl Side Chain in Bulk Solid State and Surface-grafted Thin Film	
	<u>Kenta Sekizawa</u> , Hidemine Furuya	3329

Functional Polymers and Polymer Functions

2Pd064	Resonance Raman spectroscopic study on the rubbed polythiophene thin film	
	<u>Daisuke Kajiya</u> , Ken-ichi Saitow	3818
2Pc065	Borylation of Polyphenylene Derivatives and Their Functionalizations	

	<u>Moemi Sato</u> ,Masahiro Fujita,Yuko Takeoka,Masahiro Rikukawa.....	3819
2Pd066	Evaluation of Local Charge Carrier Mobility and Its Generation Efficiency in Highly-Crystalline Polymer:PCBM Blend Films	
	<u>Saya Yoshikawa</u> ,Akinori Saeki,Shu Seki	3820
2Pc067	Synthesis and photovoltaics of cyclopentadithiophene-benzothiadiazole polymers and oligomers	
	<u>Shu-wei Chang</u> ,Masaki Horie.....	3821
2Pd068	Synthesis and photovoltaics of crosslinkable PCPDTBT analogues	
	<u>Masaki Horie</u> ,Shu-wei Chang,Jeff Kettle,Huw Waters.....	3822
2Pc069	Synthesis of polythiophenes having phosphonate ester group and their application to solar cells (I)	
	<u>Masayuki Ukigaya</u> ,Masahiro Fujita,Yuko Takeoka,Masahiro Rikukawa.....	3823
2Pd070	Synthesis of Semiconducting Block Copolymers with Low-band Gap for Organic Solar Cell Application	
	<u>Sosuke Higuchi</u> ,Kazuhito Hashimoto,Keisuke Tajima	3824
2Pc071	Synthesis and polymerization of novel carbazole-bridged bis-squaraine dyes for bulk heterojunction solar cell application	
	<u>Kei Yoshida</u> ,Takeshi Maeda,Shigeyuki Yagi,Hiroyuki Nakazumi	3825
2Pd072	Planar heterojunction organic photovoltaics based on polymer thin film with different molecular orientations	
	<u>Kouki Akaike</u> ,Keisuke Tajima.....	3826
2Pc073	Synthesis and Photovoltaic Properties of Low Band-Gap Semiconducting Polymers Based on Phenanthrodithiophene-Benzothiadiazole	
	<u>Hikaru Nonobe</u> ,Hiroki Mori,Yasushi Nishihara.....	3827
2Pd074	Synthesis of Phenanthrodithiophene-Based Semiconducting Polymers Containing Isoindigo Units	
	<u>Shuhe Nishinaga</u> ,Hiroki Mori,Yasushi Nishihara.....	3828
2Pc075	Dye-sensitized Solar Cell Using Aqueous Electrolytes and its Combination with Redox Polymers	
	<u>Shu Hara</u> ,Ryosuke Takahashi,Michio Suzuka,Fumiaki Kato,Kenichi Oyaizu,Hiroyuki Nishide	3829
2Pd076	Design of Dye Sensitized Solar Cell Using TiO ₂ /WO ₃ Nanotube	
	<u>Shoto Ikeda</u> ,Raman Vedarajan,Noriyoshi Matsumi.....	3830
2Pc077	Donor-Acceptor-Type Low Bandgap Copolymer Possessing Phenylazomethine Moiety as a Metal-Collecting Unit	
	<u>Atsushi Kimoto</u> ,Yusuke Tajima,Junji Watanabe,Yoshiyuki Ikeda	3831
2Pd078	Photovoltaic and Charging-Discharging Properties of a Dye-Sensitized Solar Cell Combined with a Charge-Storable Radical Polymer Electrode	
	<u>Satomi Kashiwagi</u> ,Masahiro Ueno,Michio Suzuka,Fumiaki Kato,Kenichi Oyaizu,Hiroyuki Nishide	3832
2Pc079	Series circuit module of organic thin-film solar cells for energy conversion into hydrogen gas	
	<u>Tomoaki Hori</u> ,Mitsuru Naruse,Atsushi Aoki,Takayuki Abe	3833
2Pd080	Fabrication and photoelectrochemical properties of mesoporous WO ₃ films using a polymer - template technique	
	<u>Kosei Ouchi</u> ,Chandra Debraj,Kenji Saito,Tatsuto Yui,Masayuki Yagi.....	3834
2Pc081	Study of Temperature Dependence for the Photoelectrochemical Oxidation of Volatile Organic Compounds by Perylene Derivative / Phthalocyanine Bilayer	
	<u>Atsushi Yamane</u> ,Toshiyuki Abe,Tomokazu Iyoda,Keiji Nagai	3835
2Pd082	Thermoelectric Properties of PEDOT:PSS/Silver Nanowire Hybrid Thin Films	
	<u>Akihito Yoshida</u> ,Naoki Toshima.....	3836
2Pc083	Thermoelectric Properties of Polymer Complexes of Nickel as an n-Type Organic	

	Semiconductor	
	<u>Keisuke Oshima</u> , Naoki Toshima.....	3837
2Pd084	Thermoelectric Properties of Conductive Polymer Nanofibers	
	<u>Soko Yamashita</u> , Yutaka Ohta, Takeshi Shimomura	3838
2Pc085	Preparation of micrometer-sized copper sulfide tubes by using sulfur fibers as templates	
	<u>Hirotohi Nakamoto</u> , Hiromori Tsutsumi.....	3839
2Pd086	Application of coated sulfur particles with two-type polymers to cathode active materials of secondary batteries	
	<u>Ai Kobashi</u> , Hiromori Tsutsumi.....	3840
2Pc087	Electrochemical properties of the metal-supported carbon catalysts obtained by pyrolysis of metal phthalocyanine derivatives under different conditions	
	<u>Miho Morioka</u> , Izuru Kobayashi, Masaji Akimoto, Kazuto Umezu, Nobukatsu Nemoto ..	3841
2Pd088	Study on high thermal conductivity mechanism of phenyl benzoate twin-mesogen epoxy polymers by vibrational spectroscopy	
	<u>Chikako Nakajima</u> , Chika Hasegawa, Hikaru Natori, Tadatomo Kawai, Yuzo Itoh ..	3842
2Pc089	Synthesis of Ambipolar Redox-Active Nitroxide Radical Polymer as an Electrode-Active Material	
	<u>Ayumi Kai</u> , Takashi Sukegawa, Kenichi Oyaizu, Hiroyuki Nishide	3843
2Pd090	Synthesis of Ferrocene Containing Polymer and Their Charge Transport and Storage Properties	
	<u>Yutaro Horie</u> , Michio Suzuka, Fumiaki Kato, Kenichi Oyaizu, Hiroyuki Nishide	3844
2Pc091	Platinum Nano-particles Decorated Exfoliated-Acetylene Black	
	<u>Rajashekar Badam</u> , Raman Vedarajan, Noriyoshi Matsumi.....	3845
2Pd092	Synthesis of Benzo[1,2- <i>b</i> :4,5- <i>b'</i>]dithiophene-Based π -Conjugated Polymers Bearing Optically Active Alkoxy Pendants	
	<u>Ryotaro Kojima</u> , Tomoyuki Yamamoto, Tomoyuki Ikai, Katsuhiko Maeda, Shigeyoshi Kanoh	3846
2Pc093	Synthesis of thieno[3,4- <i>b</i>]thiophene-based π -conjugated polymers bearing fluorophenyl pendants and their properties	
	<u>Tomoyuki Yamamoto</u> , Tomoyuki Ikai, Katsuhiko Maeda, Shigeyoshi Kanoh	3847
2Pd094	Synthesis of diblock copolymer using two different types of chain- growth polymerization (II)-Precise control of molecular weight-	
	<u>Hideo Ayame</u> , Masahiro Fujita, Yuko Takeoka, Masahiro Rikukawa.....	3848
2Pc095	Synthesis of Thienothiophene/Dithienosilole-based p -Conjugated Polymer Bearing Phenyl Ester Pendants and Its Optical Property	
	<u>Tomoya Kudo</u> , Tomoyuki Ikai, Katsuhiko Maeda, Shigeyoshi Kanoh.....	3849
2Pd096	Synthesis and characterization of conjugated oligomers with fullerenes for acceptor	
	<u>Masafumi Sugeno</u> , Naoya Adachi	3850
2Pc097	Development of novel organic semiconducting polymer composed of PTCBI as acceptor unit	
	<u>Akihiro Mori</u> , Hiroki Higashiura, John Miller, Sadayuki Asaoka.....	3851

Biopolymers and Biorelated Polymers

2Pc099	Solution property of the copolymer composed of hydrophilic monomer conjugated with 4-aminoantipyrine as substrate and hydrophobic monomer in the presence of enzyme	
	<u>Norihito Kambe</u> , Atsushi Kimoto, Junji Watanabe, Yoshiyuki Ikeda	4516
2Pd100	Fabrication of chitosan/carbon micro coils composite scaffolds for bone regeneration	
	<u>Kanako Bando</u> , Tomohiro Aokage, Koji Tsuchiya, Xiuqin Chen, Seiji	

	Motojima,Hirofumi Yajima	4517
2Pc101	Preparation and characterization of hollow nanocapsules modified with phenylboronic acid moieties <u>Junshi Okuhara</u> ,Eiji Yuba,Atsushi Harada,Kenji Kono	4518
2Pd102	Preparation of temperature and pH dually responsive vesicles using dendron lipids and their carrier functions <u>Yuhei Yamamoto</u> ,Eiji Yuba, Atsushi Harada,Kenji Kono	4519
2Pc103	Formation of polymer colloid based on poly(trimethylene carbonate) for protein crystallization <u>Yusuke Sawa</u> ,Atsushi Kimoto,Junji Watanabe,Yoshiyuki Ikeda	4520
2Pd104	Encapsulation and Release Behavior of Phospholipid Polymer Colloids under Various Aqueous Conditions <u>Marina Kawaguchi</u> ,Atsushi Kimoto,Junji Watanabe,Yoshiyuki Ikeda	4521
2Pc105	Mixed fibronectin dirived peptides conjugated chitosan matrix promotes cell attachment <u>Kentaro Hozumi</u> ,Fumihiko Katagiri,Yamato Kikkawa,Motoyoshi Nomizu.....	4522
2Pd106	Evaluation of various laminin derived peptides conjugated polysaccharides matrices by fibroblasts long culture <u>Yukihiro Yawata</u> ,Kentaro Hozumi,Fumihiko Katagiri,Yamato Kikkawa,Motoyoshi Nomizu	4523
2Pc107	Enzymatic Degradability of Chondroitin Sulfate/Chitosan Composite Films under Various Conditions <u>Keisuke Kawaguchi</u> ,Kazutoshi Iijima,Mineo Hashizume	4524
2Pd108	Kinetic Analysis of Molecular Permeability of Polysaccharide Composite Films <u>Takayuki Kimura</u> ,Tomoki Takahashi,Kazutoshi Iijima,Mineo Hashizume	4525
2Pc109	Preparation of human mesenchymal stem cell aggregate with periodic peptides of lysine and proline <u>Masayuki Okano</u> ,Yasuhiko Tabata,Yoshiaki Hirano	4526
2Pd110	Synthesis of Dual Stimuli-responsive Gel Particles That Undergo Changes in Size in Response to Intracellular Environment <u>Shunsuke Ueno</u> ,Akifumi Kawamura,Tadashi Uragami,Takashi Miyata	4527
2Pc111	Functional analysis of cell aggregation induction proline and lysine containing periodic peptides <u>Yudai Futaki</u> ,Yoshiaki Hirano,Koji Inai,Masahito Oka.....	4528
2Pd112	Preparation of Hybrid Materials from Spider Silk and Conducting Polymers <u>Olaf Karthaus</u> ,Kazuki Miyaura.....	4529
2Pc113	Synthesis of pH-responsive curdlan derivatives and their application to antigen deliverly system <u>Ayaka Yamaguchi</u> ,Eiji Yuba,Hiroshi Hayashi,Atsushi Harada,Kenji Kono	4530
2Pd114	Effect of polymer structures on the immunity-inducing function of tumor antigen-embedded liposomes modified with pH-sensitive polymer <u>Takanori Sakano</u> ,Eiji Yuba,Atsushi Harada,Kenji Kono.....	4531
2Pc115	Manipulation of immune responses by hydrophobicity of nanoparticles composed of amphiphilic poly(γ -glutamic acid) Fumiaki Shima,Tomofumi Uto, <u>Takami Akagi</u> ,Mitsuru Akashi	4532
2Pd116	Protein/peptide-conjugated biodegradable nanoparticles composed of stereoselective complexes with poly(γ -glutamic acid)-g-poly(lactide) copolymers <u>Ye Zhu</u> ,Takami Akagi,Mitsuru Akashi.....	4533
2Pc117	Control of biointerface by micro-phase separation of PLLA copolymers (II) -Effect of unit ratio of copolymers- <u>Hirona Iwane</u> ,Masahiro Fujita,Yuko Takeoka,Masahiro Rikukawa	4534
2Pd118	Fabrication of PLLA/HAp composites from oligo (L-lactic acid) (I)	

	<u>Hanae Wakabayashi</u> , Masahiro Fujita, Yuko Takeoka, Masahiro Rikukawa	4535
2Pc119	Synthesis of PLLA based diblock copolymers and their applications for scaffolds <u>Yuri Shiomura</u> , Masahiro Fujita, Yuko Takeoka, Masahiro Rikukawa	4536
2Pd120	Formation and cytotoxicity assessment of ion complexes between hyaluronic acid and polycations prepared by partial hydrolysis of poly(2-methyl-2-oxazoline) <u>Kaname Tsutsumiuchi</u> , Daiki Matsubara, Shizuka Saeki	4537
2Pc121	Thermoresponsive polymeric micelles with biodegradable cores for drug delivery system <u>Yoshinori Fujieda</u> , Masamichi Nakayama, Jun Akimoto, Taka-aki Asoh, Akihiko Kikuchi, Teruo Okano	4538
2Pd122	Terminally Cationic Temperature-Responsive Polymer Brushes for Efficiently Promoting Cell Adhesion and Detachment <u>Tomonori Kanno</u> , Masamichi Nakayama, Naoki Matsuzaka, Hironobu Takahashi, Taka-aki Asoh, Akihiko Kikuchi, Teruo Okano	4539
2Pc123	Nanoparticle formation of antigenic protein using cationic dendrimer and its introduction to immune cell <u>Masahiro Ichikawa</u> , Rina Kameyama, Manami Yamada, Tomonori Waku, Naoki Tanaka	4540
2Pd124	Effect of fiber length on cellular uptake of antigen-loaded peptide nanofibers <u>Kazufumi Kawabata</u> , Saki Nishigaki, Tomonori Waku, Shigeru Kunugi, Naoki Tanaka..	4541

<e=15:20~16:00>

<f=16:00~16:40>

Polymer Chemistry: Synthesis and Reactions

2Pe001	Preparation and characterizations of polycondensation-polyurethanes, III: Condition and control of condensation reaction <u>Eiichi Akiyama</u> , Motofumi Teduka	2353
2Pf002	Synthesis and properties of poly(silarylenesiloxane) derivatives with benzodithiophene moiety <u>Hitoshi Hanamura</u> , Nobukatsu Nemoto	2354
2Pe003	Synthesis and Properties of Polyamide Containing Indolocarbazole Moiety in the Main Chain <u>Shusei Nakama</u> , Kazuki Yamashita, Masaji Akimoto, Masuki Kawamoto, Yu Nagase..	2355
2Pf004	Synthesis and Properties of Polyimide containing Ionic Liquid Structure in the Side Chain <u>Kosuke Taira</u> , Shinichi Koguchi, Yu Nagase	2356
2Pe005	Effect of polymer chain end group on polymerization behavior of polyamide 2Me5C <u>Yu Nitto</u> , Yasukazu Shikano, Shinji Ieda, Yoshinori Fujino	2357
2Pf006	Oxidative Coupling Copolymerization of 2,3-Dihydroxynaphthalene with Cu(I)-Pyridylbenzimidazole Catalyst <u>Ryosuke Ito</u> , Osamu Niyomura, Shigeki Habaue	2358
2Pe007	Oxidative Coupling Copolymerization of Hydroxymethylphenol Derivative and Application <u>Shigeyuki Iwai</u> , Koya Nagura, Hidekazu Kubo, Tomohiro Watanabe, Yasuhiro Muraki, Shigeki Habaue, Yasuhiro Tsutsui	2359
2Pf008	Catalyst-Transfer Condensation Polymerization for the Synthesis of Polystilbene <u>Masataka Nojima</u> , Yoshihiro Ohta, Tsutomu Yokozawa	2360
2Pe009	Optimization of reaction conditions for site selective direct arylation polycondensation	

2Pf010	<u>Yohei Fujie</u> , Masahiro Kuramochi, Junpei Kuwabara, Takaki Kanbara 2361 Synthesis of conjugated polymers bearing dye structures using direct arylation under microwave heating	2361
2Pe011	<u>Naoto Takase</u> , Seong Jib Choi, Junpei Kuwabara, Takaki Kanbara 2362 Investigation of Catalyst-Transfer Suzuki-Miyaura Cross-Coupling Polymerization with a Ni catalyst for the Synthesis of Poly(3-hexylthiophene)	2362
2Pf012	<u>Kentarou Kosaka</u> , Yoshihiro Ohta, Tsutomu Yokozawa 2363 Synthesis of poly(quinoline amide) and investigation of its secondary structure	2363
2Pe013	<u>Yuta Sano</u> , Yoshihiro Ohta, Victor Maurizot, Ivan Huc, Tsutomu Yokozawa 2364 Control of one end of polyesters by mean of AA+BB polycondensation in the presence of solid phase reagent	2364
2Pf014	<u>Toshihiko Sugiura</u> , Yoshihiro Ohta, Ren-hua Jin, Tsutomu Yokozawa 2365 Synthesis of Naphthalene Bisimide-based Conjugated Polymers by Direct Arylation	2365
2Pe015	<u>Kazuhiro Nakabayashi</u> , Masaya Yamada, Hideharu Mori 2366 Synthesis and Polymerization of Acyclic Diene Metathesis (ADMET) Alcohol-Functionalized Polymers with Increased Run Lengths	2366
2Pf016	<u>Ryohei Yamakado</u> , Donovan Thompson, Kenneth B. Wagener 2367 Polycondensation of thienopyrroledione derivative via Pd-catalyzed direct arylation	2367
2Pe017	<u>Koutarou Yamazaki</u> , Junpei Kuwabara, Takaki Kanbara 2368 Study on synthesis of poly(arylene ether ketone)s composed of non-coplanarly accumulated aromatic-rings repeating unit	2368
2Pf018	<u>Saki Mouri</u> , Akiko Okamoto, Noriyuki Yonezawa 2369 Polycondensation via direct arylation of various five-membered heterocyclic compounds	2369
2Pe019	<u>Yamato Shimizu</u> , Yuta Nohara, Junpei Kuwabara, Takaki Kanbara 2370 Synthesis of novel bio-based polybenzoxazoles from possibly- microbial aromatic aldehyde and conventional amino acids	2370
2Pf020	<u>Rupali Sharma</u> , Kai Kan, Seiji Tateyama, Tatsuo Kaneko 2371 Synthesis and Properties of Chiral π -Conjugated Polymers by Three-Component Coupling Polymerization of Aryl Dihalides, Aryl Diboronic Acids, and Various Internal Alkynes	2371
2Pe021	Takamasa Kouno, Shinsuke Inagi, <u>Ikuyoshi Tomita</u> 2372 Synthesis of various π -conjugated polymer thin films by electrochemical polymerization of thiophene oligomers containing versatile elements-blocks derived from titanacyclopentadiene derivatives	2372
2Pf022	Shiori Kawamata, Hiroki Nishiyama, Shinsuke Inagi, <u>Ikuyoshi Tomita</u> 2373 Synthesis and Application of Main Chaine Degradative Hyperbranched Polyacetal	2373
	<u>Taiki Takaishi</u> , Hiroto Kudo 2374	2374

Chiral Polymers and Supramolecules: Synthesis and Function Exploration

2Pf024	Characterization of the molecular structure of high-molecular-weight cis - cisoidal polyphenylacetylenes prepared by helix-sense -selective polymerization by using the corresponding low-molecular-weight polymer	
2Pe025	<u>Toyokazu Tsutsuba</u> , Masahiro Teraguchi, Takashi Kaneko, Toshiki Aoki 2669 Template Synthesis of Complementary Double Helices and Their Photoregulation	2669
2Pf026	<u>Junki Tanabe</u> , Hidekazu Yamada, Daisuke Taura, Eiji Yashima 2671 Molecular Motions of a Double-Stranded Boron Helicate by Guest Encapsulation	2671
2Pe027	<u>Shinya Yamamoto</u> , Hiroki Iida, Eiji Yashima 2673 Synthesis of an Optically Active Poly(diphenylacetylene) Derivative Using Chirality Induction and Its Application to a Chiral Stationary Phase for HPLC	2673
	<u>Tomoyuki Ikai</u> , Yuki Komatsu, Kouhei Shimomura, Katsuhiko Maeda, Shigeyoshi Kanoh 2675	2675

2Pf028	Synthesis of Optically Active Poly(diphenylacetylene) Derivatives by Using Macromolecular Reaction and Their Application to Chiral Stationary Phases for HPLC <u>Miyuki Maruta</u> , Kouhei Shimomura, Katsuhiko Maeda, Tomoyuki Ikai, Shigeyoshi Kanoh	2677
--------	--	------

Polymer Chemistry: Synthesis and Reactions

2Pe029	Synthesis of novel enantiomerically pure P-stereogenic cyclic phosphines <u>Ryosuke Kato</u> , Yasuhiro Morisaki, Yoshiki Chujo	2375
2Pf030	Synthesis of Aromatic Rings-Fused Benzocarborane Composed of Different Aromatic Moieties <u>Kenta Nishino</u> , Masato Tominaga, Yasuhiro Morisaki, Yoshiki Chujo	2376
2Pe031	Synthesis and properties of P-stereogenic oligomer <u>Kazuhiro Sugiyama</u> , Yasuhiro Morisaki, Yoshiki Chujo	2377
2Pf032	Facile Synthesis of Poly(ethylene glycol) Derivatives Having Terminal Isocyanate or Protected Amino Groups <u>Jun Araki</u>	2378

Polymer Physics: Structure and Properties

2Pe033	Complex Chemical Physics LXII : Deformation and sound of a droplet impacting on heated surfaces <u>Akio Nishimura</u> , Zenji Yatabe, Masahiko Shoji, Chihiko Hashimoto, Toshiyuki Shikata, Hideharu Ushiki	3330
2Pf034	Phase separation dynamics in aqueous solutions of thermoresponsive polyacrylamide polymers <u>Ryo Wakabayashi</u> , Takanori Tada, Yukiteru Katsumoto, Noboru Kitamura, Yasuyuki Tsuboi	3331
2Pe035	Effect of die length on the elongational stress at capillary extrusion <u>Jiraporn Seemork</u> , Monchai Siriprumpoonthum, Shogo Nobukawa, Masayuki Yamaguchi.....	3332
2Pf036	Structure and optical properties of plasticized cellulose triacetate <u>Hikaru Shimada</u> , Shogo Nobukawa, Masayuki Yamaguchi.....	3333
2Pe037	Rheological Characterization of Thermally Modified Polyethylene <u>Monchai Siriprumpoonthum</u> , Shogo Nobukawa, Masayuki Yamaguchi	3334
2Pf038	Dispersion-Flocculation Transition of Silica Nano-Particle in PNVA/SiO ₂ Aqueous Hybrid Suspension <u>Shota Suzuki</u> , Hiroki Iijima, Toru Hoshi, Toshiki Hagiwara, Shoichiro Yano, Takashi Sawaguchi	3335
2Pe039	Drag reduction enhancement at dissolution process of polyacrylamides <u>Mitsutoshi Masuda</u> , Momoyo Wada, Hiroyuki Minamikawa, Hiroshi Morita, Yasuyuki Seki, Hiroto Ando.....	3336
2Pf040	Stress Relaxation Behavior after Cessation of Shear Flow for Composite System of Hydroxypropyl Cellulose and Carbon Nano-Fibers <u>Hisashi Seki</u> , Raita Tanaka, Katsufumi Tanaka, Haruki Kobayashi, Ryuichi Akiyama...	3337
2Pe041	Evaluation of Dielectric Relaxation Behavior using Microelectrodes <u>Masayoshi Uchimura</u> , Katsufumi Tanaka, Haruki Kobayashi, Ryuichi Akiyama....	3338
2Pf042	Microstructure of Electro-Rheological Nano-Suspension <u>Seiya Robson</u> , Wataru Nakano, Katsufumi Tanaka, Haruki Kobayashi, Ryuichi Akiyama	3339
2Pe043	Viscosity dependency of Paramecium swimming behavior in PEO solution and HPC solution	

	<u>Daisuke Maki</u> ,Masatoshi Yoshimuara,Masahiko Shoji,Chihiro Hashimoto,Alain Graciaa,Anna Chrostowska,Toshiyuki Shikata,Hideharu Ushiki	3340
2Pf044	The hydration behavior of water-soluble substances	
	<u>Naoya Sagawa</u> ,Toshiyuki Shikata.....	3341
2Pe045	Image analysis of single spore growth in rich and poor nutrition substrates	
	<u>Ryuta Morizumi</u> ,Masatoshi Yoshimura,Makoto Yoshida,Masahiko Shoji,Toshiyuki Shikata,Hideharu Ushiki	3342
2Pf046	Application of the Resonance Raman Spectroscopy for Thermally degraded Polymer	
	<u>Yukimasa Kaneta</u> ,Hiroharu Itaya,Terumi Sakabe,Ryosuke Ozawa	3343
2Pe047	Development of a variable frequency electron spin resonance instrument for π -conjugated polymer electronics devices	
	<u>Kunito Fukuda</u> ,Naoki Asakawa	3344
2Pf048	Electrochemical Spectroscopy for Structural Study of Redox Polymers	
	<u>Ryo Manabe</u> ,Yasushi Maeda,Shinji Sugihara	3345
2Pe049	Molecular-weight determination of polymeric thin films by using quartz crystal microbalance	
	<u>Yusuke Nishiwaki</u> ,Takuya Hibino,Shoichi Maekawa,Atsushi Kubono	3346
2Pf050	Tacticity analysis of poly(<i>N,N</i> -dimethylacrylamide)with multivariate analysis oh their spectra	
	<u>Daishi Matsumoto</u> ,Miyuki Oshimura,Tomohiro Hirano,Koichi Ute	3347
2Pe051	Analysis of monomer sequence distribution poly(methyl methacrylate -co- benzyl methacrylate)s prepared by polymer reactions : Multivariate analysis of ¹³ C NMR spectra of the copolymers	
	<u>Koji Funaoka</u> ,Manato Harada,Tomoyuki Ono,Tomohiro Hirano,Koichi Ute.....	3348

Functional Polymers and Polymer Functions

2Pf054	Synthesis of crosslinked poly(vinyl ether) membranes and the effects of oxyethylene chain length on gas permeability	
	<u>Fumiya Katsura</u> ,Toshikazu Sakaguchi,Tamotsu Hashimoto	3852
2Pe055	Synthesis of poly(diphenylacetylene)s bearing imidazolium salt and their gas permeability	
	<u>Hyuma Ito</u> ,Toshikazu Sakaguchi,Tamotsu Hashimoto	3853
2Pf056	Synthesis of insoluble membranes of poly(<i>p</i> -phenylenevinylene)s and their gas permeability	
	<u>Yoshinori Nakao</u> ,Toshikazu Sakaguchi,Tamotsu Hashimoto	3854
2Pe057	Synthesis and gas permeability of poly(diphenylacetylene)s containing cathecol units	
	<u>Takuya Tsuzuki</u> ,Toshikazu Sakaguchi,Tamotsu Hashimoto	3855
2Pf058	Permeation properties of alcohol solution through poly(lactic acid) membrane by pervaporation	
	<u>Yasuaki Shinkawa</u> ,Yuki Hayashi,Shinji Kanehashi,Shuichi Sato,Takayuki Honda,Kazukiyo Nagai	3856
2Pe059	Synthesis and gas barrier properties of diacetylene-containing polymer membrane made from cinnamic acid derivative	
	<u>Shohei Itami</u> ,Miho Kobayashi,Toshiaki Nagasawa,Shuichi Sato,Shinji Kanehashi,Takayuki Honda,Kazukiyo Nagai	3857
2Pf060	Synthesis and gas separation properties of ABA-type triblock copolymer derived from fluorine-containing polyimide macroinitiator with POSS	
	<u>Tsubasa Suzuki</u> ,Akihiro Yoshida,Shota Ando,Yusuke Koyama,Sou Miyata,Shuichi Sato,Shinji Kanehashi,Kazukiyo Nagai	3858
2Pe061	Water vapor sorption properties of poly(lactic acid) membranes with adhesive	

	property by vacuum ultraviolet irradiation <u>Takuya Saiga</u> , Yuki Hayashi, Shinji Kanehashi, Shuichi Sato, Setsuko Matsumoto, Hironaga Matsumoto, Kazukiyo Nagai	3859
2Pf062	Effect of fouling on gas permeability dissolved in water through modified poly(1-trimethylsilyl-1-propyne) membrane <u>Shoko Kuga</u> , Masayuki Yamada, Yusuke Ishiba, Shinji Kanehashi, Shuichi Sato, Setsuko Matsumoto, Hironaga Matsumoto, Kazukiyo Nagai	3860
2Pe063	Development and gas separation properties of UV-cured fluorine-containing telechelic polyimide membranes with crosslinker <u>Kenta Kojima</u> , Satoshi Amanuma, Ryohei Shindo, Shuichi Sato, Shinji Kanehashi, Kazukiyo Nagai	3861
2Pf064	Gas separation properties of membranes composed of ionic liquid and fluorine-containing polyimide <u>Hideaki Sawa</u> , Masanori Kishida, Takashi Kidesaki, Ryohei Shindo, Shuichi Sato, Shinji Kanehashi, Kazukiyo Nagai	3862
2Pe065	Synthesis and Gas Permeation of Aliphatic Substituted Acetylenes Having an Oxyethylene Group in the Side-chain <u>Yoshiaki Yoshida</u> , Asahi Motoshige, Ranko Motoshige, Takahiro Sasaki, Yasuteru Mawatari, Masayoshi Tabata	3863
2Pf066	Study on the gas transport property of methacrylic polymers by the NMR methods <u>Kaho Manno</u> , Hiroaki Yoshimizu	3864
2Pe067	Preparation and H ₂ separation property of polyimide composite membranes <u>Kazuhiro Tanaka</u> , Masaaki Matsunaga, Kentaro Hayashi, Tomoko Koga, Takashi Iida, Izumi Kumakiri, Hidetoshi Kita	3865
2Pf068	Molecular Recognition by Cyclodextrin Dimers in Organic Solvents <u>Chizuru Kogame</u> , Toshiyuki Kida, Mitsuru Akashi	3866
2Pe069	Molecular Recognition by Cyclodextrin Derivatives in Nonpolar Solvents: Clarification of the Substituent Effect by Crystal Structure Analyses of the Inclusion Complexes <u>Tomoaki Hinoue</u> , Chizuru Kogame, Takuya Iwamoto, Toshiyuki Kida, Mitsuru Akashi .	3867
2Pf070	Molecular shape recognition with rigid dendrimers <u>Yuto Kato</u> , Takane Imaoka, Kimihisa Yamamoto	3868
2Pe071	Synthesis of Optically Active Poly(phenylacetylene)s Bearing Binaphthocrown Ether Pendants and Their Chiral Recognition Ability <u>Kazuki Tazawa</u> , Katsuhiko Maeda, Tomoyuki Ikai, Shigeyoshi Kanoh	3869
2Pf072	Synthesis of Novel Optically Active Polymers Including Glucose and p-Conjugated Units in the Main Chain <u>Takayuki Yamada</u> , Tomoyuki Ikai, Katsuhiko Maeda, Shigeyoshi Kanoh	3870
2Pe073	Synthesis of Poly(biphenylacetylene)s Bearing Various Carbamate Pendants and Their Application to Chiral Stationary Phases for HPLC <u>Toru Sato</u> , Kouhei Shimomura, Tomoyuki Ikai, Katsuhiko Maeda, Shigeyoshi Kanoh, Eiji Yashima	3871
2Pf074	Thermosensitive Microgels as Separation Media in Capillary Electrophoresis <u>Takahiro Yotsugi</u> , Yasushi Maeda, Shinji Sugihara	3872
2Pe075	Formose Reaction Using Reverse Micelles as the Reaction Medium <u>Tomohiro Michitaka</u> , Makoto Masaoka, Akihito Hashidzume, Takahiro Sato	3873
2Pf076	Synthesis and Characterization of Cross-linked Dendrimers for the Medium of Formose Reaction <u>Yosuke Watanabe</u> , Akihito Hashidzume, Takahiro Sato	3874
2Pe077	Synthesis and Application of a Double-Stranded Boron Helicate Bearing Bipyridine N,N'-Dioxide Units <u>Taiki Nakamura</u> , Kaori Shimizu, Hiroki Iida, Daisuke Taura, Eiji Yashima	3875

2Pf078	Synthesis and Characterization of Amphiphilic Diblock Copolymers Having Sulfonic Acid Groups (II) -Influence of Copolymerization Ratio- <u>Takahiro Kato</u> ,Tatsuya Oshima,Masahiro Fujita,Yuko Takeoka,Masahiro Rikukawa	3876
2Pe079	Synthesis of Cationic Poly(phenylene)s by Catalyst Transfer Polycondensaion (ii)-Self-Organization of Diblock Copolymers- <u>Tsukasa Hara</u> ,Masahiro Fujita,Yuko Takeoka,Masahiro Rikukawa	3877
2Pf080	Application of Metal Complexed Organic Nanotube toward a Heterogeneous Catalyst <u>Masaru Aoyagi</u> ,Masaki Kogiso,Mitsutoshi Masuda,Toshimi Shimizu	3878
2Pe081	Research on the phase-transfer catalyst of the Hexaalkyl-guanidinium salts <u>Satomi Tanaka</u> ,Takayuki Suzuki	3879
2Pf082	Applications of Phosphole-containing π -Conjugated Polymers Derived from Organometallic Polymers Having Titanacyclopentadiene Moieties as Fluorescent Chemosensors <u>Yoshimasa Matsumura</u> ,Shinsuke Inagi,Ikuyoshi Tomita	3880
2Pe083	Syntheses of Salcomine Derivatives having Hydrophobic Groups and Evaluation of the Life Time of Oxygenation and Photo-reversible Oxygen Binding <u>Shun Ubukata</u> ,Takayuki Suzuki	3881
2Pf084	Syntheses of polymer ligand contributing efficient photoreversibility oxygen absorption and desorption of cobalt(II) salen complexes and evaluation of photoresponsibility <u>Ryosuke Endo</u> ,Takayuki Suzuki	3882
2Pe085	Synthesis of a porous polymeric spiropyran with stability in shape and evaluation of photo-responsive rapid metal-ion adsorption <u>Tomohiko Kitsukawa</u> ,Takayuki Suzuki	3883
2Pf086	Preparation of a macro-porous hydrogel of polymeric acrylamide-spiropyran and its photo-reversible adsorption of metal ions <u>Osamu Tadokoro</u> ,Takayuki Suzuki	3884
2Pe087	Selective recovery of rare metal ions using peptide-grafted silica micro particles packed in a glass column <u>Noriyuki Nakamura</u> ,Shohei Ida,Yoshitsugu Hirokawa,Satoshi Tanimoto	3885
2Pf088	Visualization of strain and deformation using chromogenic material <u>Tsuyoshi Hyakutake</u> ,Itaru Nishizaki,Hiroshi Fudouzi,Tsutomu Sawada,Yoshikazu Tanaka,Ichiro Ario	3886

Biomedical Polymers for Future Medicine

2Pe089	Biosynthesis of polymerisable carbohydrate and preparation of hydrogels composed of cell membrane fractions <u>Shuetsu Fujii</u> ,Yasuhiko Iwasaki.....	4908
2Pf090	Quantitative analysis of surface interaction forces for suppression of protein adsorption <u>Sho Sakata</u> ,Yuuki Inoue,Kazuhiko Ishihara	4910
2Pe091	Medical application of polymer nanosheet for novel venous haemostatic materials <u>Akihiro Saito</u> ,Kohsuke Hagsawa,Manabu Kinoshita,Daisuke Ogawa,Toshinori Fujie,Young-kwang Park,Mitsuo Umedu,Shinji Takeoka	4912

Biopolymers and Biorelated Polymers

2Pf092	Layer-by-layer deposition of photo-reactive polypeptides onto a liposome and chemical modification of the capsule wall <u>Maya Hirakawa</u> ,Yuuka Fukui,Keiji Fujimoto	4542
--------	--	------

2Pe093	Construction of a polymer platform on a cell surface from the albumin-chitosan complex <u>Eri Kamimoto</u> , Yuuka Fukui, Keiji Fujimoto.....	4543
2Pf094	pH-Dependent Membrane Lysis by the use of de novo designed polypeptides <u>Masato Ota</u> , Jun-ichi Hashimoto, Ayumi Kashiwada.....	4544
2Pf096	Epigenetics control by the co-delivery of plasmid DNA and enzyme inhibitor by use of the novel biodegradable nanoparticles <u>Yutaro Asaba</u> , Shoichiro Asayama, Kazuhiko Nakabayashi, Hiroyoshi Kawakami .	4545
2Pe097	Preparation of bio-scaffolds for tissue engineering by assembly from liponano-capsules into a membrane <u>Shuhei Kameyama</u> , Yuuka Fukui, Keiji Fujimoto	4546
2Pf098	Micelle formation of polyampholytes for controlled release <u>Sana Ahmed</u> , Kazuaki Matsumura.....	4547
2Pe099	Aggregation of grafted polyelectrolyte with hydrophilic chain and its solution property <u>Ayaka Ota</u> , Atsushi Kimoto, Junji Watanabe, Toshihumi Miyazawa, Yoshiyuki Ikeda .	4548
2Pf100	Unimer nanoparticles composed of poly(amino acid) derivatives as promising artificial proteins <u>Phassamon Piyapakorn</u> , Takami Akagi, Mitsuru Akashi.....	4549
2Pe101	Preparation of UCST type of poly(acrylamide-co-acrylonitrile) immobilized on a glass substrate by SI-ATRP method and heat-cell exfoliation on the substrate <u>Taiji Ito</u> , Nousou Tatuki, Yasue Yamada, Kohei Shiraishi, Hirofumi Kawazumi, Tatsuyuki Nakatani	4550
2Pf102	Preparation of PNiPAAm with various polymer chain lengths immobilized on a glass substrate by SI-ATRP method and cell attachment and thermal stimuli-exfoliation of mesenchymal stem cell on the substrate <u>Akinori Imajo</u> , Manato Asai, Yasue Yamada, Kohei Shiraishi, Tatsuyuki Nakatani .	4551
2Pe103	Evaluation of physicochemical and cellular properties of PLGA-PEG-PLGA/clay hybrid thermogels as tissue engineering scaffolds <u>Naho Oyama</u> , Hiromasa Minami, Koji Nagahama	4552
2Pf104	Particle Size Control of Spherical Self-assemblies Consisting of Amphiphilic Janus Brush-like Polymers and Their Application to Optical Tumor Imaging <u>Koji Miki</u> , Hiroki Hashimoto, Tatsuhiro Inoue, Hideki Matsuoka, Hiroshi Harada, Masahiro Hiraoka, Kouichi Ohe	4553
2Pe105	Synthesis of near-infrared fluorescent dye-containing amphiphilic hyaluronic acid derivatives and their application to tumor imaging <u>Koji Miki</u> , <u>Tatsuhiro Inoue</u> , Yasuhito Kobayashi, Katsuya Nakano, Hideki Matsuoka, Fumio Yamauchi, Tetsuya Yano, Kouichi Ohe	4554
2Pf106	Preparation and aggregation behavior of Gemini type surfactant with ion binding at spacer sites <u>Naoya Yamamoto</u> , Hideki Sugimoto, Katsuhiro Inomata, Eiji Nakanishi	4555
2Pe107	Effect of Alkyl Chain Length for Association Behaviors of alkyl-b-poly(sulfobetaine-L-glutamine) <u>Eriko Hirano</u> , Hideki Sugimoto, Katsuhiro Inomata, Eiji Nakanishi.....	4556
2Pf108	Preparation and the Solution Behavior of Poly (methacryl amide) (PMAm) containing spiropyran <u>Takehiro Yamada</u> , Hideki Sugimoto, Katsuhiro Inomata, Eiji Nakanishi.....	4557
2Pe109	Hydrogelation and functionalization of linear poly(ethylene glycol) derivative via enzymatic oxidative reaction <u>Kosuke Moriyama</u> , Rie Wakabayashi, Masahiro Goto, Noriho Kamiya	4558
2Pf110	Charged thermoresponsive cell culture surfaces for enhanced adhesion of adipose-derived cells	

	<u>Jun Kobayashi</u> , Takahiro Ohno, Yoshinori Matsbara, Hiroshi Kakidachi, Yoshikatsu Akiyama, Masayuki Yamato, Akihiro Horii, Teruo Okano....	4559
2Pe111	Micropatterned degradation of photodegradable hydrogel for 3D tissue engineering <u>Fumiki Yanagawa</u> , <u>Shinji Sugiura</u> , Toshiyuki Takagi, Kimio Sumaru, Toshiyuki Kanamori.....	4560
2Pf112	Cell Micropatterning and Manipulation on Photodegradable Hydrogel <u>Shinji Sugiura</u> , Toshiyuki Takagi, Kimio Sumaru, Toshiyuki Kanamori.....	4561
2Pe113	Control of the velocity of microtubule propelled by kinesin on an elastic substrate <u>Daisuke Inoue</u> , Kazuki Sada, Akira Kakugo	4562
2Pf114	Synthesis of pentablock copolymers possessing both PEG and two kinds of poly(amino acid) segments <u>Michihiro Iijima</u> , Carmen Scholz, David Ulkoski.....	4563
2Pe115	Selective packaging of plasmid DNA into rod or toroid shape within polyplex micelles <u>Yanmin Li</u> , Kensuke Osada, Chen Qixian, Theofilus A. Tockary, Dirisala Anjaneyulu, Kazunori Kataoka.....	4564
2Pf116	Characteristics of the polysaccharide produced by <i>Bifidobacterium</i> as a material for film dosage form <u>Yoshifumi Murata</u> , Norihisa Nishida, Ryosei Kamaguchi, Etsuko Miyamoto	4565
2Pe117	Design and Characterization of Polysaccharide nanogel sheet <u>Asako Shimoda</u> , Yoshihide Hashimoto, Sada-atsu Mukai, Shin-ichi Sawada, Kazunari Akiyoshi.....	4566
2Pf118	Design and function of cross-linked nanogel particle by emulsion - photopolymerization method <u>Masashi Tsuda</u> , Yoshiro Tahara, Sada-atsu Mukai, Shinnichi Sawada, Kazunari Akiyoshi.....	4567
2Pe119	Accumulation of the fundamental knowledge for silk vascular graft development <u>Yui Hatakeyama</u> , Derya Aytemiz, Yusuke Ozai, Toshiharu Fukayama, Ryo Tanaka, Yasumoto Nakazawa, Tetsuo Asakura	4568
2Pf120	Fabrication of transgenic silk vascular graft and evaluation of biocompatibility <u>Haruki Hayashi</u> , Ryo Tanaka, Jun Kinugasa, Shoji Uesugi, Hideki Sedutsu, Nobuo Kuwabara, Tetsuo Asakura	4569
2Pe121	Synthesis of water-soluble poly(2-methyl-2-oxazoline)-poly(trimethylene carbonate) copolymer and evaluation of the polymer colloid <u>Kento Onaka</u> , Atsushi Kimoto, Junji Watanabe, Yoshiyuki Ikeda	4570
2Pf122	Development of layered nanofiber scaffolds for high-density coculture system of hematopoietic stem cells <u>Harue Shimizu</u> , Shin-ichiro Suye, Satoshi Fujita	4571
2Pe123	Preparation and function of polyphosphoester ionomer-protein conjugates <u>Masahiro Tokunaga</u> , Yasuhiko Iwasaki, Atsushi Harada	4572
2Pf124	A design and RNA interference effect of the siRNA carrier consisting of amphiphathic polyamino acid nanoparticles <u>Manami Shudo</u> , Takami Akagi, Mitsuru Akashi	4573

Friday, September 13

Presentation Time

<a=10:20~11:00>

<b=11:00~11:40>

Polymer Chemistry: Synthesis and Reactions

3Pa001	Synthesis and properties of aliphatic disubstituted acetylene polymers containing halogen and ether <u>Tomoya Sugiyama</u> , Toshikazu Sakaguchi, Tamotsu Hashimoto 2379
3Pb002	Polymerization of substituted acetylenes having diacetylene units in the side chains and luminescence of the resultant polymer <u>Shogo Kuroda</u> , Toshikazu Sakaguchi, Tamotsu Hashimoto 2380
3Pa003	Synthesis and properties of poly(<i>p</i> -phenylene)s having various substituents <u>Takuya Nakano</u> , Toshikazu Sakaguchi, Tamotsu Hashimoto 2381
3Pb004	Synthesis of Cyclo-olefin Polymer Nanoparticles using Emulsion Ring Opening Metathesis Polymerization and Their Carbon Nanotubes Composite Nanoparticles <u>Hoang Ban The</u> , Tsutomu Nagamune, Masahiro Shigeta, Yasuo Tsunogae, Mitsugu Uejima 2382
3Pa005	Ring-Opening Copolymerization of Cyclic Esters using Iron(III) Triflate <u>Toshihiko Omori</u> , Ryo Tanaka, Yuushou Nakayama, Takeshi Shiono 2383
3Pb006	Evaluation of cocatalyst ability of modified methylaluminumoxane treated with phenol derivatives using living polymerization of propene <u>Takayuki Yamashita</u> , Ryo Tanaka, Yuushou Nakayama, Takeshi Shiono 2384
3Pa007	Living polymerization of 4-methyl-1-pentene with <i>ansa</i> -dimethylsilylene(fluorenyl)(<i>t</i> -butyl amido)dimethyltitanium catalyst <u>Manami Goda</u> , Ryo Tanaka, Yuushou Nakayama, Takeshi Shiono 2385
3Pb008	Structure performance relationship of alkoxysilane used in Ziegler-Natta propylene polymerization <u>Supawadee Poonpong</u> , Toshiaki Taniike, Minoru Terano 2386
3Pa009	The effect of preparative method SiO ₂ -supported co-catalyst in propylene polymerization using fluorenyl amide titanium complex <u>Tomoyasu Kawahara</u> , Ryo Tanaka, Yuushou Nakayama, Takeshi Shiono 2387
3Pb010	Isomerization Polymerization of Alkyl-substituted Methylenecyclohexanes by Diimine Metal Complexes: Synthesis of Polymers Having cis-Cyclohexane Rings Keisuke Watanabe, <u>Daisuke Takeuchi</u> , Kohtaro Osakada 2388
3Pa011	Olefin polymerization and copolymerization by dinuclear transition metal complexes with double-decker framework <u>Shigenaga Takano</u> , Daisuke Takeuchi, Kohtaro Osakada 2389
3Pb012	Functional group selective polymerization of N-(4-ethynyl phenyl)maleimide <u>Wataru Ito</u> , Tokio Hagiwara 2390
3Pa013	UHV preparation of MgCl ₂ active surface for Ziegler-Natta catalyst <u>Keisuke Goto</u> , Toshiaki Taniike, Minoru Terano 2391
3Pb014	Application of large scale stopped-flow polymerization for clarification of active sites on MgCl ₂ supported Ziegler-Natta catalyst in propylene block copolymerization with ethylene <u>Ashutosh Thakur</u> , Shinya Sano, Supawadee Poonpong, Toshiaki Taniike, Minoru Terano 2392
3Pa015	Copolymerization of norbornene and 1-alkene with <i>ansa</i> -dimethylsilylene(fluorenyl)(cumylamido)dimethyltitanium complex <u>Chie Yanase</u> , Ryo Tanaka, Zhengguo Cai, Yuushou Nakayama, Takeshi Shiono 2393
3Pb016	Synthesis and property of ethylene, 1-octene and norbornene terpolymer with

	Me ₂ Si(Flu)(NtBu)TiMe ₂	
	<u>Issei Kamei</u> , Ryo Tanaka, Yuushou Nakayama, Takeshi Shiono	2394
3Pa017	Block copolymerization of propylene and polar monomers using fluorenylamido titanium catalyst	
	<u>Ryo Tanaka</u> , Yuushou Nakayama, Takeshi Shiono.....	2395
3Pb018	Direct Arylation Polymerization of 2-Bromo-3-hexylthiophene: An Unexpected Polymerization Behavior	
	<u>Tomoyoshi Taketani</u> , Eisuke Izuka, Masayuki Wakioka, Fumiya Ozawa.....	2396
3Pa019	Synthesis and Conformational Control of Conjugated Polymers Bearing Crown Ether Strapped Biphenyl Moieties in the Main Chain	
	<u>Reina Kishimoto</u> , Katsuhiko Maeda, Tomoyuki Ikai, Shigeyoshi Kanoh.....	2397
3Pb020	Investigation of Catalyst-Transfer Condensation Polymerization of Donor-Acceptor Biaryl Monomers by Means of Model Reactions	
	<u>Masaru Katoh</u> , Yoshihiro Ohta, Tsutomu Yokozawa.....	2398
3Pa021	Synthesis of the optically active polymer via the asymmetric Takeuchi reaction	
	<u>Yosuke Mikasa</u> , Nobuyoshi Nomura.....	2399
3Pb022	Ideal copolymerization of lactide, caprolactone, or trimethylene carbonate by using Homosalen-Al catalysts	
	<u>Nobuyoshi Nomura</u> , Hikari Tsusaka, Azusa Akita	2400
3Pa023	Controlled Copolymerization by Metal Complex [65] - Syntheses of Star Shaped Poly(Propylene Carbonate)s Having Different Branching Structures and Comparison of Their Thermophysical Properties	
	<u>Rumi Yamada</u> , Satoshi Honda, Hiroshi Sugimoto.....	2401
3Pb024	Controlled Copolymerization by Metal Complex [66] Synthesis and Thermal Properties of Block Copolymers from Carbon-dioxide-derived Aliphatic Polycarbonate Having Reactive End Groups	
	<u>Aki Nagasawa</u> , Satoshi Honda, Hiroshi Sugimoto.....	2402
3Pa027	Synthesis and polymerization of acrylate monomers containing sulfide linkage	
	<u>Tomomi Kameyama</u> , Akinori Takasu	2403
3Pb028	Synthesis of Novel Polymerization Initiators Using a Tertiary Phosphine-Carbon Disulfide Complex with Radical Reactivity	
	<u>Yuma Tanaka</u> , Yuki Konuma, Nariaki Mano, Akihiko Kanazawa	2404
3Pa029	Ring-opening Polymerization of Dithio-NCA Prepared from Carbon Disulfide and Amino Acid	
	<u>Rina Kondo</u> , Shin-ichi Matsuoka, Koji Takagi, Masato Suzuki	2405
3Pb030	Solution Polymerization of Carbon Disulfide with 0-valent Metal compounds Properties of Resulting Polymers	
	<u>Takuo Shikama</u> , Bungo Ochiai	2406
3Pa031	Synthesis of Poly(amino acid)s by Ring-Opening Polymerization of 1,3-Oxazolidin-5-one Derivatives	
	<u>Go Iwasa</u> , Tomoaki Goto, Shin-ichi Matsuoka, Koji Takagi, Masato Suzuki.....	2407
3Pb032	Homo- and Co-polymerization of Cyclic Esters by Using Bulky Lewis Pairs as Catalyst	
	<u>Shunsuke Kosaka</u> , Ryo Tanaka, Yuushou Nakayama, Takeshi Shiono.....	2408
3Pa033	Polymerization of 3,4-dimethylenepyrrolidine derivatives as a diene monomer	
	<u>You dai Shiino</u> , Kenji Itahashi, Hideaki Oike	2409
3Pb034	Controlled Cationic Ring-Opening Polymerization of Oxiranes and Copolymerization with Vinyl Ethers	
	<u>Shungo Kanda</u> , Arihiro Kanazawa, Shokyoku Kanaoka, Sadahito Aoshima.....	2410
3Pa035	Controlled Cationic Polymerization of 1-Methoxy-1,3-butadiene	
	<u>Yukinori Togo</u> , Arihiro Kanazawa, Shokyoku Kanaoka, Sadahito Aoshima	2411
3Pb036	Monomer-Selective Domino Living Cationic Copolymerization of a Variety of	

	Vinyl Ethers and Styrene Derivatives	
	<u>Ryohei Kimura</u> , Mayuka Yamada, Arihiro Kanazawa, Shokyoku Kanaoka, Sadahito Aoshima	2412
3Pa037	Polymerization and copolymerization of (substituted aryloxy)acetylenes by rhodium catalyst	
	<u>Yosuke Usui</u> , Hirotaka Tabata, Hideaki Oike.....	2413
3Pa039	One pot synthesis of polymer-coated nano-fillers by applying sequential living block co-polymerization with particles	
	<u>Toshihiko Arita</u>	2414
3Pb040	In Situ Formation of Vesicle Containing Amino Groups via RAFT Aqueous Dispersion Polymerization	
	<u>Yudai Tomoyasu</u> , Shinji Sugihara, Akmal Hadi Maradzi, Yasushi Maeda	2415

Polymer Physics: Structure and Properties

3Pb042	Helical Main-chain Change Depend on the Side-chain Structure of Poly(Propargyl Ester) Bearing a Chiral Group	
	<u>Yoshiaki Yoshida</u> , Asahi Motoshige, Ranko Motoshige, Takahiro Sasaki, Yasuteru Mawatari, Masayoshi Tabata	3349
3Pa043	Reversible Unwinding of Contracted Helix of Aliphatic Polyacetylene Esters Prepared with a Rh Complex Catalyst	
	Yoshikazu Sadahiro, <u>Yasuteru Mawatari</u> , Yoshiaki Yoshida, Masayoshi Tabata	3350
3Pb044	Structural Analyses of Polyacetylene Having a Carbazole-substituent using NMR method	
	<u>Takahiro Sasaki</u> , Ranko Motoshige, Asahi Motoshige, Yoshiaki Yoshida, Yasuteru Mawatari, Masayoshi Tabata	3351
3Pa045	Crystal structure transition accompanied with helical structure changes of poly(phenylacetylene) having <i>n</i> -alkyl chain induced by heat-treatment	
	<u>Asahi Motoshige</u> , Yasuteru Mawatari, Yoshiaki Yoshida, Masayoshi Tabata	3352
3Pb046	Phase transition of polyphenylacetylenes in solid state	
	<u>Ranko Motoshige</u> , Yasuteru Mawatari, Asahi Motoshige, Yoshiaki Yoshida, Takahiro Sasaki, Hiroaki Yoshimizu, Masayoshi Tabata	3353
3Pa047	Study of the polyester oligomer formation by LC-MS	
	<u>Naomi Inoue</u> , Masako Sunaga, Hiroshi Hara, Hironori Matsuda.....	3354
3Pb048	Investigations on photo-excitation processes of lignophenols	
	<u>Mitsuru Aoyagi</u> , Masamitsu Funaoka.....	3355
3Pa049	Analyses on thermal behaviors of lignophenols	
	<u>Mitsuru Aoyagi</u> , Masamitsu Funaoka.....	3356
3Pb050	Control of stereoregularity about glycopolymer delivered by acrylamide	
	<u>Masaki Takara</u> , Yu Hoshino, Yoshiko Miura.....	3357
3Pb052	Phase separation behavior of carboxylated poly-L-lysine	
	<u>Esha Das</u> , Kazuaki Matsumura	3358
3Pa053	Association Behavior of Diblock Copolymers Containing Poly(<i>N</i> -isopropyl acrylamide) Block in Water /Methanol Mixed Solvent	
	<u>Daisuke Hashizume</u> , Katsuhiko Inomata, Hideki Sugimoto, Eiji Nakanishi.....	3359
3Pb054	dye laser by using diblock copolymer, from blue to red	
	<u>Hikaru Ueda</u> , Akihiko Ikeda, Shigeru Okamoto	3360
3Pa055	Molecular Conformation of PMMA in Hexafluoroisopropanol	
	<u>Moriya Kikuchi</u> , Toshihiro Okajima, Yasuharu Hirai, Seigou Kawaguchi	3361
3Pb056	Associating structure of amphiphilic AnB-type polymers	
	<u>Daisuke Kugimoto</u> , Isamu Akiba	3362
3Pa057	Polyelectrolyte Complexation between Amphiphilic Copolymer and Homopolymer	
	<u>Bijuan Wang</u> , Takahito Sato	3363

3Pb058	Structural Analysis of Calix [4] arene Lipid by SAXS <u>Shunsuke Sakamoto</u> , Yusuke Sanada, Shota Fujii, Kazuo Sakurai.....	3364
3Pa059	Hydration Behavior of Poly(dioxolane) in Aqueous solution <u>Misumi Okuzono</u> , Toshiyuki Shikata, Osamu Urakawa.....	3365
3Pb060	Preparation of alternating block copolymers built by telechelic stereocontrolled poly(<i>N</i> -isopropylacrylamide)s as a comonomer <u>Tasuku Horiuchi</u> , Yuki Akagi, Takamasa Sakai, Yukiteru Katsumoto	3366
3Pa061	Complex formation and structural analysis of sodium colistinsulfate with water-soluble polymers <u>Aya Okura</u> , Isamu Akiba.....	3367
3Pb062	Effect of quaternary ammonium salt on local structure of poly(L-glutamic acid) in aqueous solution <u>Yukie Kawano</u> , Hiroki Ikake, Yoshio Muroga, Shigeru Shimizu	3368
3Pa063	Two-Step Recrystallization of Water in Concentrated Aqueous Solution of Poly(ethylene glycol) <u>Ryosuke Kasai</u> , Makoto Gemmei-ide, Hiromi Kitano	3369

Functional Polymers and Polymer Functions

3Pa067	Synthesis of poly (3,6-difluoro-2,7-carbazole)s and their electroluminescence characteristics <u>Takehiro Ohashi</u> , Masashi Kijima	3887
3Pb068	Holographic recording on thermal cationic polymerized matrix <u>Naomichi Mimita</u> , Tomoya Mizuta, Hiroto Miyake, Ken'ichi Koseki	3888
3Pa069	Holography of monolithic molecule (1) <u>Kanako Ogo</u> , Takahiro Fukami, Kenji Kinashi, Wataru Sakai, Naoto Tsutsumi	3889
3Pb070	Holography of Monolithic Molecule <u>Takahiro Fukami</u> , Kanako Ogo, Kenji Kinashi, Wataru Sakai, Naoto Tsutsumi	3890
3Pb072	Promoting Oscillation of Belousov-Zhabotinsky Reaction by Polymer Addition <u>Aki Goto</u> , Yoshinori Takashima, Hiroyasu Yamaguchi, Akira Harada	3891
3Pa073	Mechanical properties and structural analysis of a newly fabricated cellulose nanofiber/polyvinyl alcohol (PVA) composite <u>Yukako Oishi</u> , Atsushi Hotta.....	3892
3Pb074	Preparation of ZrO ₂ /PMMA hybrid for high refractive materials <u>Masafumi Nakamura</u> , Suguru Motokucho, Ken Kojio, Kohji Yoshinaga	3893
3Pa075	Mechanical Properties of Nanocomposites Based on Nanofibrillated Cellulose Decorated with Nanodiamond <u>Seira Morimune</u> , Michaela Salajkova, Qi Zhou, Takashi Nishino, Lars Berglund, Kimiya Goto, Katsuhiko Hata.....	3894
3Pb076	Synthesis of ZnO Nano-particles in reversed micelles of block copolymer and Hybridization with PMMA <u>Atsushi Yonezawa</u> , Suguru Motokucho, Ken Kojio, Kohji Yoshinaga.....	3895
3Pa077	Characterization of poly(ethylene-co-vinyl acetate) and nanofibrillated cellulose fibers prepared by a twin-screw extruder with a vacuum vent <u>Kazuishi Sato</u> , Mariko Ago, Ryoji Tanaka, Yusuke Sugimoto, Yuki Minaguchi, Takafumi Mori.....	3896
3Pb078	Surface modification of inorganic particles utilizing equilibrium polymerization <u>Kohei Seki</u> , Koji Arimitsu, Hiroshi Yoshitani, Shoji Nozato, Akira Nakasuga.....	3897
3Pa079	Properties of anionic UV curing materials containing inorganic particles modified with base-generating groups <u>Daiki Iijima</u> , Koji Arimitsu.....	3898
3Pb080	Preparation of polymer-grafted carbon nanotubes utilizing equilibrium polymerization	

	<u>Daiki Iijima</u> , Koji Arimitsu, Hiroshi Yoshitani, Shoji Nozato, Akira Nakasuga	3899
3Pa081	Development of polymer additives based on phenolic resin derivatives	
	<u>Tsukasa Kitatani</u> , Keita Kurada, Riku Ando, Tadamasu Nemoto, Tadaharu Adachi ..	3900
3Pb082	Thermodynamic approach for achieving highly conductive CNT/elastomeric composites by control of solubility parameter	
	<u>Seisuke Ata</u> , Howon Yoon, Chandramouli Subramaniam, Ayumi Nishizawa, Takaaki Mizuno, Takeo Yamada, Kenji Hata.....	3901
3Pa083	Effect of Surface Conditions of Polymer Substrates on Peptide Adsorption Layer-Controlled Apatite Deposition Thereon	
	<u>Hiroumi Nagahama</u> , Kazutoshi Iijima, Toshiki Sawada, Takeshi Serizawa, Mineo Hashizume	3902
3Pb084	Surface functionalization of carbon nanotubes and properties of polymer composites there from	
	<u>Long Sun</u> , Kaoru Adachi, Yasuhisa Tsukahara	3903
3Pa085	The effect of surfactants for the thermosetting polyimide having cellulose fibers	
	<u>Tomoya Shirata</u> , Tatsuki Kon, Shigeko Sasaki, Yoshiyuki Oishi, Yuji Shibasaki.....	3904
3Pb086	Surface functionalization and characterization of MWCNT via carbanions on the surface	
	<u>Masanori Terada</u> , Kosuke Izaki, Kaoru Adachi, Yasuhisa Tsukahara	3905
3Pa087	Preparation of well-aligned and well-oriented all-polyimide nanofiber composite and its mechanical properties	
	<u>Masaru Kotera</u> , Keiko Mizoguchi, Haruna Noda, Takashi Nishino	3906
3Pb088	The dispersion strategy of long single-wall carbon nanotubes for advanced composites	
	<u>Howon Yoon</u> , Motoi Yamashita, Seisuke Ata, Takeo Yamada, Kenji Hata.....	3907
3Pa089	Chiral Nanomaterials Composed of Polyamines and Silica	
	<u>Yoshiaki Arai</u> , Ren-hua Jin	3908
3Pb090	Fabrication of Polypropylene Nanocomposites by in-situ Sol Gel Reaction For Various Functionalities	
	<u>Bulbul Maira</u> , Nitin Yadav, Kei Kaneko, Toshiaki Taniike, Minoru Terano	3909
3Pa091	Silica Mineralization on Cross-linked Polyethyleneimine Gels	
	<u>Daiki Souma</u> , Ren-hua Jin.....	3910
3Pb092	Preparation of Carbon Nanotube/Perfluoroalkoxy Resin Composite Films and their Physicochemical Properties	
	<u>Ryo Sakurai</u> , Tomoya Nagaoka, Koji Tsuchiya, Hirofumi Yajima.....	3911
3Pa093	Hybridization of Emitting Polyfluorene with Silicone Resin	
	<u>Shinji Nishikawa</u> , Sayaka Kami, Ashikin Nurul, Takahiro Uno, Takahito Itoh, Masataka Kubo	3912
3Pb096	Direct Observation of the Structure that a Chiral Helical Polymer Chain Forms on a Substrate	
	<u>Manjit Singh Grewal</u> , Yuu Makida, Ken-ichi Shinohara.....	3913
3Pa097	Adhesive property of UV-curing ink for non-porous surfaces - Relationship between the forming mechanism of cured film structure and ink composition -	
	<u>Kyoung-mo Jeong</u> , Ken'ichi Koseki.....	3914
3Pb098	Preparation of the trehalose-immobilized surface	
	<u>Tomohiro Fukuda</u>	3915
3Pa099	Preparation of Spine and Cantilever-typed Metallic Nano-structure	
	<u>Takayuki Iijima</u> , Hiroshi Endo, Takeshi Kawai	3916
3Pb100	Synthesis and characterization of polymer for pressure-sensitive paint reducing temperature-dependency	
	<u>Ryo Asato</u> , Kazunori Mitsuo, Makoto Obata	3917
3Pa101	Surface design by photo-vapor-phase assisted surface polymerization	

	<u>Satoshi Gomi</u> , Yoshito Ando, Haruo Nishida	3918
3Pb102	Formation of micropattern surface based on self-organization of amphiphilic diblock copolymers	
	<u>Wataru Yakami</u> , Atsushi Kimoto, Junji Watanabe, Yoshiyuki Ikeda	3919
3Pa103	Polyethylene surface modification effectivity of side chain block co-polymer	
	<u>Ryoko Nakano</u> , Shintaro Sugi, Hiroshi Sekiguchi, Shigeru Yao	3920
3Pb104	Formation of self-assembled monolayer of thiol terminated PSt on copper surface and resistance against oxidation	
	<u>Tomoki Takata</u> , Takuya Ikeda, Kaoru Adachi, Yasuhisa Tsukahara	3921
3Pa105	Theoretical design of surface modified water treatment membrane with anti-fouling properties	
	<u>Yusuke Takahashi</u> , Hiromitsu Takaba	3922
3Pb106	Adsorption Behavior of Asphaltene Model Compound C5Pe on the High-Density Polymer Brush Surfaces	
	<u>Kaoru Hatae</u> , Tatsuya Ishikawa, Yuji Higaki, Atsushi Takahara	3923
3Pa107	Orientation of n-type linear molecular films deposited in a vacuum on oriented polythiophene and α -sexithiophene films (2): perfluoropentacene	
	<u>Toshiko Mizokuro</u> , Keisuke Takeuchi, Claire Heck, Hiroyuki Aota, Nobutaka Tanigaki..	3924
3Pb108	Orientation of n-type linear molecular films deposited in a vacuum on uniaxially oriented polythiophene and α -sexithiophene films (1): Tetradecafluoro- α -sexithiophene	
	<u>Keisuke Takeuchi</u> , Toshiko Mizokuro, Claire Heck, Hiroyuki Aota, Nobutaka Tanigaki..	3925
3Pa109	Chromism of Substituted Polyacetylenes by various stimuli	
	<u>Kenji Tsuchihara</u> , Miho Sakurai.....	3926
3Pb110	Study of various polymerization conditions for oxidative degradation of polypropylene	
	<u>Taira Tobita</u> , Ikki Katada, Masahito Toyonaga, Toshiaki Taniike, Minoru Terano ...	3927
3Pa111	Microwave assisted phosphorylation of polyvinylalcohol and its properties	
	<u>Masato Yuasa</u> , Hiroki Okajima, Shogo Kamenoue, Natumi Kijima, Takumi Okihara ...	3928

Biopolymers and Biorelated Polymers

3Pa113	Synthesis of glycopolymer having a cationic segment by the RAFT polymerization	
	<u>Lei Zhang</u> , Makoto Obata.....	4574
3Pb114	Synthesis of cationic branched glycopolymer for gene carrier	
	<u>Hiroyuki Morikoshi</u> , Makoto Obata	4575
3Pa115	Synthesis of Amidinated Chitin and its Nanofibrillation by Conversion to Bicarbonate Derivative	
	<u>Miwa Setoyama</u> , Kouhei Tanaka, Kazuya Yamamoto, Jun-ichi Kadokawa	4576
3Pb116	Facile Acetylation of Xanthan Gum Using Ionic Liquid	
	<u>Miwa Setoyama</u> , Kazuya Yamamoto, Jun-ichi Kadokawa	4577
3Pa117	Quantitative elucidation of interaction between sulfated polysaccharides and virus model oligopeptides	
	Tegshi Muschin, <u>Takashi Yoshida</u>	4578
3Pb118	Synthesis of Hydrophobized Hyaluronan-Calcium Phosphate Hybrid Nanoparticles	
	<u>Setsuko Yamane</u> , Shin-ichi Sawada, Yoshihiro Sasaki, Kazunari Akiyoshi	4579
3Pa119	Bio-ethanol production from mercerized cellulose with enzymatic saccharification	
	<u>Xianxiang Liang</u> , Takashi Yoshida, Toshiyuki Uryu.....	4580
3Pb120	Physical property of composite between phosphorylated pullulan and calcium phosphate	

3Pa121	<u>Takumi Okihara</u> ,Yukihiko Nakao,Takashi Itoh,Kenya Matsuo,Yasuhiro Yoshida ..	4581
	Synthesis of oligosaccharide-conjugated porphyrin derivatives as PDT photosensitizers	
3Pb122	<u>Takahiro Tsuji</u> ,Atsushi Narumi,Seigou Kawaguchi,Shigenobu Yano	4582
	Microwave assisted phosphorylation of polysaccharides	
3Pa123	<u>Hiroki Okajima</u> ,Masato Yuasa,Shogo Kamenoue,Takumi Okihara.....	4583
	Preparation of Chitin Nanofiber/Cellulose Composite Film Using Ionic Liquid	
3Pb124	<u>Rie Tajiri</u> ,Kazuya Yamamoto,Jun-ichi Kadokawa	4584
	Sustained release properties of drugs from phosphorylated pullulan and its composite	
	<u>Shingo Yoshizane</u> ,Takumi Okihara,Yasuhiro Yoshida,Kenya Matsuo	4585

Presentation Time

<c=13:20~14:00>

<d=14:00~14:40>

Polymer Chemistry: Synthesis and Reactions

3Pc001	Thermal cyclic reaction of polyacrylonitrile in coordination nanochannels toward functional carbon materials	
	<u>Tetsuya Kaseda</u> ,Takashi Uemura,Susumu Kitagawa.....	2416
3Pd002	Synthesis and Dynamic Covalent Exchange Reactions of Polymers with Mid-chain Alkoxyamine Functionality	
	<u>Tomoya Sato</u> ,Tomoyuki Ohishi,Atsushi Takahara,Hideyuki Otsuka	2417
3Pc003	Restoration of Fractured Thermosetting Polymer via Living Radical Polymerization by Alkylborane Initiator	
	<u>Jun Nunoshige</u> ,Takahito Muraki,Satoru Amou,Hiroyuki Kagawa	2418
3Pd004	Synthesis of Quaternized Imidazolium Salts with Oxyethylene Chains Based on Polysiloxane	
	<u>Tsukasa Ichikawa</u> ,Yuya Ishii,Ayaka Kodama,Kenta Sakuma,Nobukatsu Nemoto....	2419
3Pc005	Precision synthesis of gel network via end-crosslinking of controlled telechelic PNIPAAm by Michael addition	
	<u>Masamitsu Yamawaki</u> ,Shohei Ida,Satoshi Tanimoto,Yoshitsugu Hirokawa.....	2420
3Pd006	Catalytic activity of Pd-supported polyvinylalcohol containing sulfur in Heck Reaction	
	Ayaka Kubo,Takehiro Daimon, <u>Daisuke Nagai</u>	2421
3Pc007	Adhesion of Gels using Suzuki-Miyaura Cross-Coupling Reaction and its Mechanical Properties	
	<u>Tomoko Sekine</u> ,Yoshinori Takashima,Hiroyasu Yamaguchi,Akira Harada	2422
3Pd008	β -Polyketone Synthesis by oxidation of PVA and rare metal extractability	
	<u>Masaaki Yoshida</u> ,Hiroshi Sato	2423
3Pc009	Synthesis and properties of stereoregular polymethacrylates with imidazolium Pendant Groups	
	<u>Yusuke Matsumura</u> ,Takahide Kotani,Takehiro Kitaura,Tatsuki Kitayama.....	2424
3Pd010	Preparation of Functionalized Telechelic Oligopropylene using Thiol-Ene Reaction in Supercritical Carbon Dioxide	
	<u>Hiroyuki Kobayashi</u> ,Rui Zhu,Fuminori Matsuyama,Daisuke Sasaki,Toru Hoshi,Toshiki Hagiwara,Takashi Sawaguchi	2425
3Pc011	Synthesis of functionalized π -conjugated polymers and the cross-linking reaction	
	<u>Ryo Kouchi</u> ,Eiki Kawagita,Shin-ichi Matsuoka,Masato Suzuki,Koji Takagi.....	2426
3Pd012	Synthesis and Photo-induced Exchange Reactions of Linear and Cross-linked Polyurethanes Containing Aromatic Disulfides	

3Pc013	<u>Yoko Iki</u> , Tomoyuki Ohishi, Yuji Higaki, Atsushi Takahara, Hideyuki Otsuka 2427 Spin-Trapping Analysis for Thermal Degradation of Polyacetals	2427
3Pd014	<u>Mayu Izukura</u> , Kenji Kinashi, Wataru Sakai, Naoto Tsutsumi, Ken Horita 2428 Influence on Emulsification Stability in the Electron Beam Graft Polymerization using Aqueous Emulsion	2428
3Pc015	<u>Kenji Hisada</u> , Taku Maeda, Misaki Matsuoka, Isao Tabata, Kazumasa Hirogaki 2429 Synthesis of graphene nanoribbon from cis-transoidal polyphenylacetylenes by oxidation reaction in membrane state	2429
3Pd016	<u>Ryusuke Saito</u> , Masahiro Teraguchi, Takashi Kaneko, Toshiki Aoki 2430 Synthesis of Tellurium-Containing Polymers by Reactions of Acetylene-Containing π -Conjugated Polymers	2430
3Pc017	<u>Takeru Suto</u> , Shinsuke Inagi, Ikuyoshi Tomita 2431 Synthesis and Functions of Ferrocene-containing Elements-Block Polymers by Reactions of Organometallic Polymers Containing Ferrocene and Titanacyclopentadiene Units	2431
3Pd018	<u>Jonghyeok Lee</u> , Shinsuke Inagi, Ikuyoshi Tomita 2432 Stabilization behavior of polyoxymethylene by nitrogen compounds	2432
3Pc019	<u>Mariko Nomura</u> , Hajime Ohtani, Hatsuhiko Harashina 2433 Synthesis of Photodegradable ABA-type Triblock Copolymers linked between Poly(ethylene glycol) and Poly(propylene oxide) by Click Reaction	2433
3Pd020	<u>Kohei Kamimura</u> , Yasuhiko Kakiuchi, Hayato Yamaguchi, Michiko Ito, Seiichi Nakahama, Kazuo Yamaguchi 2434 Synthesis of amphiphilic diblock copolymer consisting of poly(ϵ -caprolactone) and poly(ethylene glycol) connected with a photodegradable heterobifunctional crosslinking reagent	2434
3Pc021	<u>Hidemi Tochigi</u> , Shota Yamamoto, Seiichi Nakahama, Kazuo Yamaguchi 2435 Introduction of function groups to PEO having allyl groups by click reaction	2435
	<u>Hiroki Hattori</u> , Satoshi Yamamoto, Keiji Yamashita 2436	2436

Polymer Physics: Structure and Properties

3Pc023	Effects amphiphilic peptide of the aggregate network structure of protein gel <u>Rina Kameyama</u> , Yuri Narita, Naoki Tanaka 3370	3370
3Pd024	Synthesis and properties of azobenzene polyrotaxane gel containing the low molecular weight liquid crystal <u>Takuya Hayashi</u> , Masaroshi Kidowaki, Daiki Kanbara, Kohzo Ito, Yasuhiro Sakai, Yoko Matsuzawa, Haruhisa Akiyama 3371	3371
3Pc025	Analysis of Internal Structure of Hybrid Microgels <u>Yasuhisa Nagase</u> , Takaaki Sato, Daisuke Suzuki 3372	3372
3Pd026	Electrodynamic phenomenon of hydrogel particles morphology changes <u>Takuma Kureha</u> , Daichi Aoki, Takaaki Sato, Daisuke Suzuki 3373	3373
3Pc027	Fluorescence Resonance Energy Transfer (FRET) of fluorescent molecules in organic-inorganic hybrid gels Naofumi Naga, <u>Saki Hashimoto</u> , Tomoharu Miyanaga, Hidemitsu Furukawa 3374	3374
3Pd028	Synthesis and properties of organic-inorganic hybrid liquid crystal gels Ayaka Okada, <u>Naofumi Naga</u> , Hidemitsu Furukawa, Takahiro Yamamoto 3375	3375
3Pc029	Anisotropic Swelling Behavior of Uniaxially-orientated Hydro-gel Consisting of Thermoresponsive Polypeptide <u>Keisuke Mizutani</u> , Naohiro Tachi, Katsuhiko Inomata, Hideki Sugimoto, Eiji Nakanishi 3376	3376
3Pd030	Fabrication and evaluation of amphiphilic ideal co-networks <u>Shinji Kondo</u> , Ung-il Chung, Takamasa Sakai 3377	3377
3Pc031	"Non-swellable" hydrogel with highly elastic deformability	

	<u>Hiroyuki Kamata</u> , Ung-il Chung, Takamasa Sakai	3378
3Pd032	Hydrogel formation from the concentrated aqueous solution of polyvinyl alcohol and structural analysis <u>Tomoyo Sakaguchi</u> , Shusaku Nagano, Mitsuo Hara, Suong-hyu Hyon, Kazuaki Matsumura	3379
3Pc033	Mesoporous polymer nanofiber with macroporous structure <u>Sadaki Samitsu</u> , Mohan Raj Krishnan, Yoshihisa Fujii, Izumi Ichinose	3380
3Pd034	Preparation of UV-curable PVB and Its Gelation <u>Takuma Kimura</u> , Michinori Karikomi, Takao Kimura	3381
3Pc035	Solvent Effect for Organic Aerogel with Large Mesopore Volume and High Surface Areas <u>Minoru Yonekawa</u> , Ayumi Hatano, Shingo Hadano, Wigen Nazarov, Tomokazu Iyoda, Keiji Nagai	3382
3Pd036	Stimuli-responsive material consisted of rigid rod-like polyelectrolyte "imogolite" <u>Kazuhiro Shikinaka</u> , Keisuke Kaneda, Saori Mori, Tei Maki, Hiroyasu Masunaga, Yoshihito Osada, Kiyotaka Shigehara	3383
3Pc037	Elucidation of the Inhomogeneity of Defect-controlled Tetra-PEG gel <u>Takashi Hiroi</u> , Kengo Nishi, Shinji Kondo, Takamasa Sakai, Mitsuhiro Shibayama ..	3384
3Pd038	Solvent dependence of Tetra-PEG gelation <u>Kei Hashimoto</u> , Kengo Nishi, Kenta Fujii, Mitsuhiro Shibayama	3385
3Pc039	Effect of amine crosslinkers on the characteristics of PNIPAAm post-crosslinked gels utilizing activated ester chemistry <u>Akimitsu Katsurada</u> , Shohei Ida, Satoshi Tanimoto, Yoshitsugu Hirokawa	3386
3Pd040	Surface Treatment and Mechanical Characterization of Bacterial Cellulose Gels <u>Yukari Numata</u> , Shiro Masaki	3387
3Pc041	Fe(II)-responsive gelation of terpyridine-grafted PVA <u>Yoshinori Konishi</u> , Shohei Ida, Yoshitsugu Hirokawa, Satoshi Tanimoto	3388
3Pd042	Swelling and Mechanical Properties of Anisotropic PVA Gels Prepared by Uniaxial Freezing Methods Taegu Noh, <u>Kensuke Ota</u> , Atsushi Suzuki	3389
3Pc043	Hydrogelation of the self-assembled peptide designed by ionic bonding with ascorbic acid <u>Yuya Shimada</u> , Masayoshi Tanaka, Takatoshi Kinoshita	3390
3Pd044	Effects of preparing conditions of PVA cast gel on swelling and elution properties <u>Saori Sasaki</u> , Atsushi Suzuki	3391
3Pc045	Synthesis and mechanical properties of polymers with rigid segments in the main chain <u>Hiroko Ishii</u> , Tomohiro Fukuda, Suguru Motokucho, Ken Kojio, Kohji Yoshinaga, Raita Goseki, Teruaki Hayakawa	3392
3Pd046	Swelling and Shrinking Behavior of Slide-Ring Gels Swollen by Ionic Liquids <u>Tomohiro Kashino</u> , Yutaka Ohta, Yasuhiro Sakai, Takeshi Shimomura, Kohzo Ito ...	3393
3Pc047	Phase Transition Behavior of Aqueous Dispersion of Poly(N-isopropylacrylamide) Microgels Sakura Kakefuda, <u>Hiroki Takeshita</u> , Masamitsu Miya, Katsuhiko Takenaka, Tomoo Shiomi	3394
3Pd048	Toughening Phenomenon of Phase-Separated Gels <u>Koshiro Sato</u> , Toshiyuki Hisamatsu, Tasuku Nakajima, Takayuki Kurokawa, Jian Ping Gong	3395
3Pc049	Characterization of Stereoregular Polystyrene Physical Gels in Organic Solvents <u>Shino Kobayashi</u> , Risei Wada, Hidenobu Shimizu, Masaru Okabe	3396
3Pd050	Slide-Ring Material via Quadruple Hydrogen Bonding <u>Kohsuke Minato</u> , Kazuaki Kato, Yasuhiro Sakai, Hideaki Yokoyama, Kohzo Ito	3397

- 3Pc051 Application of methylated slide-ring gel for adhesion
Daiki Muramoto, Yutaka Ohta, Yasuhiro Sakai, Takeshi Shimomura, Kohzo Ito 3398

Functional Polymers and Polymer Functions

- 3Pc053 Preparation of polypropylene grafted graphene and application to the polypropylene nanocomposite for high strength
Katsuhiko Matsushita, Shigeru Arai, Masahito Toyonaga, Toshiaki Taniike, Minoru Terano..... 3929
- 3Pd054 nano-structured silica directed by supramolecular crystals consisted of polyamines and sugar acids
Hiroki Murata, Hiroyuki Matsukizono, Ren-hua Jin..... 3930
- 3Pc055 Analysis of the filler network structure in polypropylene nanocomposite prepared by impregnation method
Kei Kaneko, Toshiaki Taniike, Minoru Terano 3931
- 3Pd056 Preparation of Fluorocarbon-Functionalized Silica Nanotubes by Sol-Gel Transcription using Aggregation of Perfluoroalkyl chains
Motoshi Yamanaka, Keiji Yoshimura, Masaaki Kato, Kazunori Nakano 3932
- 3Pc057 Synthesis of Slide-ring Materials by Magnetic Nanoparticles and their Properties
Daisuke Matsui, Yasuhiro Sakai, Kazuaki Kato, Kohzo Ito, Tadafumi Adschiri..... 3933
- 3Pd058 Design of electrophoretic polyester and hybridization with functionality inorganic materials
Takuya Fukuoka, Akinori Takasu 3934
- 3Pc059 Synthesis of gold-polymer hybrid nanoparticles by miniemulsion polymerization
Kaori Fujino, Yuuka Fukui, Keiji Fujimoto 3935
- 3Pd060 Preparation of Organic-Inorganic Hybrids with Diarylbibenzofuranone Units and Their Mechano-responsive Behavior
Rina Yoneyama, Keiichi Imato, Tomoyuki Ohishi, Yuji Higaki, Atsushi Takahara, Hideyuki Otsuka 3936
- 3Pc061 Application of Hybrid Monolith Column for Flow Organic Reactor
Koji Mitamura, Seiji Watase, Norio Ishizuka, Kimihiro Matsukawa..... 3937
- 3Pd062 Preparation of Cross-linked Polymer in the Interior of Surfactant Micelle Encapsulating around Carbon Nanotube
Yusuke Tsutsumi, Tsuyohiko Fujigaya, Naotoshi Nakashima..... 3938
- 3Pc063 Synthesis of Star Polyethyleneimine with Resorcinol Condensed Macrocyclic Cores and Their Templating Features for Silicification
Takeo Nagatsuka, Tomoharu Sato, Ren-hua Jin 3939
- 3Pd064 Facile preparation of core-shell hybrid microspheres using liquid carbon dioxide
Makoto Takafuji, Naoya Ryu, Hiroto Yamamoto, Hullathy Ganapathy, Shoji Nagaoka, Hirotaka Ihara 3940
- 3Pc065 Quantitative analysis of positive temperature coefficient of a polymer filled conductive fillers
Hajime Nakano, Takafumi Saito, Yuhei Nishiyama, Takashi Nishiyama, Toshiaki Ougizawa, Hideo Horibe 3941
- 3Pd066 Preparation of Organic-Inorganic Hybrids Containing a Photodegradable Polymer
Hiroshi Okada, Kazuo Tanaka, Yoshiki Chujo 3942
- 3Pc067 Dispersion of carbon nanotube using cationic polysilsesquioxanes
Tomoyuki Arake, Kazuhiro Shikinaka, Takuo Sugioka, Yasutaka Sumida, Yoshiro Kaneko..... 3943
- 3Pd068 Correlation between the structures of water-soluble chiral silsesquioxanes and the chiral induction behavior into dye molecules
Shota Kinoshita, Hisako Sato, Yoshiro Kaneko 3944
- 3Pc069 Development of single component self-standing transparent films based on

	biphenyl terminated POSS-core dendrimers <u>Yasuyuki Irie</u> ,Kensuke Naka	3945
3Pd070	Preparation and Thermal Conductivity of Boron Nitride Filled Polypropylene/Nylon Composites <u>Yuko Matsushita</u> ,Miho Sakai,Kenji Nagata,Yuji Hotta,Kimiyasu Sato,Masahiro Higuchi,Takatoshi Kinoshita	3946
3Pc071	High frequency dielectric properties of MgO filled polymer composites Susumu Takahashi, <u>Yusuke Imai</u> ,Akinori Kan,Yuji Hotta,Hiroataka Ogawa.....	3947
3Pd072	High frequency dielectric properties of h-BN filled polymer composites Susumu Takahashi, <u>Yusuke Imai</u> ,Akinori Kan,Yuji Hotta,Hiroataka Ogawa.....	3948

Biopolymers and Biorelated Polymers

3Pd074	Property and distribution of bacterial expansin, enhancing saccharification of cellulose <u>Futoshi Sumisa</u> ,Takashi Yoshida	4586
3Pc075	Fabrication of 3D assembly composed of peptide control gold nanoparticles and its electrochemical properties <u>Yuji Asano</u> ,Masahiro Higuchi,Kenji Nagata	4587
3Pd076	Monitoring of target proteins by the stable sensing device composed of protein-induced glycopeptide cluster <u>Tomohiro Miura</u> ,Mao Arai,Kenji Nagata,Masahiro Higuchi	4588
3Pc077	Fabrication and electrochemical properties of the nano-wire composed of Co(II) coordinated amphiphilic peptide assembly <u>Yusuke Yamamoto</u> ,Kenji Nagata,Masahiro Higuchi,Takatoshi Kinoshita	4589
3Pd078	Fabrication of organic / inorganic hybrid material based on the nano-sheet structure composed of Nucleo- peptides <u>Tatsuya Ando</u> ,Kenji Nagata,Kazuki Murai,Masahiro Higuchi.....	4590
3Pc079	Theoretical conformation analysis of poly(Xaa-Pro) using molecular dynamics simulations Koji Inai,Yoshiaki Hirano, <u>Masahito Oka</u>	4591
3Pd080	Theoretical analysis on the stability of hairpin-structures in polypeptides having two proline sequences using molecular dynamics simulations Koji Inai,Yoshiaki Hirano, <u>Masahito Oka</u>	4592
3Pc081	Chemical Modification of Extracellular Matrix Protein (ECM) using RAFT polymerization <u>Tomoki Yamada</u> ,Akinori Takasu	4593
3Pd082	Protein-polymer nano-objects built from graft-polymerized proteins <u>Daiki Sakai</u> ,Yuuka Fukui,Keiji Fujimoto	4594
3Pc083	Effect of microtubules hierarchy on photoinduced hydrogen generation and application to artificial photosynthesis <u>Kosuke Okeyoshi</u> ,Ryuzo Kawamura,Ryo Yoshida,Yoshihito Osada	4595
3Pd084	Design of self-polymerizing proteins which have tertiary structures for construction of functional materials <u>Ryo Matsunaga</u> ,Satoru Nagatoishi,Kouhei Tsumoto	4596
3Pc085	Improvement of esterification activity of lipases by hydration treatment in anhydrous organic media <u>Kenya Suzuno</u> ,Takashi Kuroiwa,Toru Matsui,Akihiko Kanazawa	4597
3Pd086	Factors affecting the product yield in the enzymatic synthesis of trehalose esters using triglycerides as a substrate <u>Yoshihiro Aoki</u> ,Takashi Kuroiwa,Akihiko Kanazawa	4598
3Pc087	Preparation of reusable chitosanases immobilized on an agar gel support containing magnetite nanoparticles	

	<u>Yuta Nakagawa</u> , Ryo Ogita, Takashi Kuroiwa, Akihiko Kanazawa.....	4599
3Pd088	Chiral gold nanorod assemblies constructed by proteins <u>Chihiro Mochizuki</u> , <u>Hideyuki Shinmori</u>	4600
3Pc089	Controlled Supramolecular Nanostructures of Peptide Amphiphiles <u>Rie Wakabayashi</u> , Mika Koga, Noriho Kamiya, Masahiro Goto.....	4601
3Pd090	Preparation and characterization of the PEDOT/Protein nano-particles <u>Kentaro Ichiki</u> , Toshihisa Mizuno, Masaharu Kondo, Takehisa Dewa, Toshiki Tanaka	4602
3Pc091	Immobilization of membrane proteins using the PG-surfactants bearing polymerizable groups <u>Shuhei Koeda</u> , Katsunari Umezaki, Toshihisa Mizuno, Tomoyasu Noji, Keisuke Kawakami, Takehisa Dewa, Toshiki Tanaka, Mamoru Nango, Kazunori Sugiyasu, Masayuki Takeuchi	4603
3Pd092	Optimization to prepare GFP nanotube and attempt to incorporate substance in the inner volume the GFP nanotube <u>Naoya Okiyama</u> , Toshihisa Mizuno, Tomoyasu Noji, Takehisa Dewa, Jun-ichi Oku, Toshiki Tanaka, Kazunori Sugiyasu, Masayuki Takeuchi	4604
3Pc093	Attempts to use the tandem PG-surfactants for the selective extraction of phycobilisome from thylakoigo membranes <u>Tomoyuki Suzuki</u> , Shuhei Koeda, Toshihisa Mizuno, Tomoyasu Noji, Keisuke Kawakami, Takehisa Dewa, Toshiki Tanaka, Mamoru Nango	4605
3Pd094	A novel protein-polymer hybrid for highly sensitive antigen detection <u>Kensuke Yahiro</u> , Rie Wakabayashi, Masahiro Goto, Noriho Kamiya.....	4606
3Pc095	Analysis of Self-assembly Structure of Synthetic Polypeptide Hydrogel <u>Katsuhiro Yamamoto</u> , Yuka Mori, Eri Ito, Hidenori Yokoi, Aya Ohtani.....	4607
3Pd096	Chloroplast-specific gene delivery using chloroplast transit peptide <u>Ayaka Tateishi</u> , Takeshi Yoshizumi, Yutaka Kodama, Keiji Numata.....	4608
3Pd098	Construction of amphiphilic DNA tiles on a lipid bilayer membrane and its physical properties <u>Shingo Makishi</u> , Tomonori Shibata, Koichi Matsuzaki, A. Sonia Contera, Chikara Dohno, Kazuhiko Nakatani	4609
3Pc099	Synthesis of cyclic polymer having peptide nucleic acid segments <u>Haruna Wada</u> , Takuya Yamamoto, Yasuyuki Tezuka	4610
3Pd100	Intracellular delivery of fluorescent nanoparticles self-assembled from a nucleotide-appended fluorescein derivative Mutsumi Shirai, <u>Rika Iwaura</u> , Mayumi Ohnishi-kameyama	4611
3Pc101	Preparation of one-dimensional arrays using DNA-functionalized gold nanoparticles <u>Yoshitsugu Akiyama</u> , Hiroto Shikagawa, Naoki Kanayama, Masahiro Fujita, Tohru Takarada, Mizuo Maeda	4612
3Pd102	Structural observation of stratum corneum by hydrogen/deuterium exchange and AFM <u>Shiori Kakinoki</u> , Kana Emoto, Shio Arai, Hirohisa Yoshida	4613
3Pc103	High performance gelatin fiber spun by dry spinning <u>Thitirat Chaochai</u> , Yusuke Imai, Tetsuya Furuike, Hiroshi Tamura.....	4614
3Pd104	Control of phase behavior of amino acid ionic liquid/water mixture <u>Shohei Saita</u> , Hiroyuki Ohno	4615
3Pc105	Effective pyrophosphate chemosensing using pyridylboronic acid <u>Mai Sanjoh</u> , Akira Matsumoto, Yuji Miyahara	4616
3Pc107	Synthesis and characterization of new branched polysaccharide nanogels <u>Hiroko Yukawa</u> , Shigeki Takeda, Shin-Ichi Sawada, Yoshihiro Sasaki, Kazunari Akiyoshi.....	4617

3Pd108	Synthesis of curcumin-based nanogels and evaluation of their physicochemical and cellular properties as nanobiomaterials <u>Yoshinori Sano</u> ,Koji Nagahama	4618
3Pc109	Synthesis of cell-penetrating hyperbranched glycopeptides as inducers of RNA transcription <u>Yukina Mizuta</u> ,Akinori Takasu.....	4619
3Pd110	Syntheses and physicochemical characteristics of Curdlan-PNIPAAm copolymer <u>Mai Yokoyama</u> ,Megumi Ishii,Koji Tsuchiya,Hirofumi Yajima	4620
3Pc111	Physicochemical Properties of the Complexes of Chitosan-PEG Graft and Block Copolymers with Iodine/Iodide, and Their Bioactivities <u>Shiori Saga</u> ,Shintaro Ueda,Koji Tsuchiya,Hirofumi Yajima	4621
3Pd112	Degradation control of polysaccharides by Malaprade oxidation <u>Konkumnerd Wichchulada</u> ,Suong-hyu Hyon,Kazuaki Matsumura	4622
3Pc113	Design and application of enzyme-responsive amylose-primer surfactants <u>Shun Shikura</u> ,Tomoki Nishimura,Shin-ichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi.....	4623
3Pd114	Design and function of glycostar polymers for DDS <u>Masahiro Takara</u> ,Tomoki Nishimura,Sada-atsu Mukai,Shin-ichi Sawada,Kazunari Akiyoshi.....	4624
3Pc115	Design and function of new thermo-responsive polysaccharide nanogels <u>Mizuki Sakiyama</u> ,Shigeo Takeda,Shin-ichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi.....	4625
3Pd116	Evaluation of the Substrate Specificity of Endo- β -1,3-Glucanase Using Synthetic Branched β -Oligoglucans <u>Atsushi Miyagawa</u> ,Ryusuke Tomita,Masayuki Oda,Hatsuo Yamamura	4626
3Pc117	Synthesis and physicochemical properties of graftcopolymer of curdlan with polyethylene glycol <u>Megumi Ishii</u> ,Mai Yokoyama,Koji Tsuchiya,Hirofumi Yajima	4627
3Pd118	Preparation of polysaccharide-based nanoparticles by one-pot assembly in miniemulsion <u>Akihiro Koyama</u> ,Yuuka Fukui,Keiji Fujimoto	4628
3Pc119	Fabrication and Evaluation of Acidic Polysaccharides/Chitosan Composite Fibers <u>Kotaro Asaine</u> ,Kazutoshi Iijima,Mineo Hashizume.....	4629
3Pd120	Inulin-based glycopolymers: their preparations, lectin-affinities, and gellation properties <u>Teruaki Hasegawa</u> ,Kazumi Izawa,Kento Akiyama.....	4630
3Pc121	Analysis of Inclusion Behavior of α -Cyclodextrin Derivatives towards Fatty Acid Esters in Nonpolar Media <u>Mitsuyo Hamada</u> ,Tomoaki Hinoue,Toshiyuki Kida,Mitsuru Akashi	4631
3Pd122	Preparation of Bacterial Cellulose Hollow Sphere Gels <u>Yuka Kakinuma</u> ,Toru Hoshi,Toshiki Hagiwara,Takashi Sawaguchi,Shoichiro Yano	4632