Room P

Wed. May 25
Presentation Time <10:30~11:30> Online Room PosterP3

1P3B001	Syntheses of Thermoresponsive Acrylamide Alternating Copolymers via Cyclopolymerization and Post-Polymerization Modification Shimpei Maruyama, Kentaro Shibata, Makoto Ouchi
1P3B002	Precision Syntheses of Acrylamide-Hydroxyethyl Vinyl Ether Alternating Copolymers via Radical Cyclopolymerization and Aminolysis Post-Polymerization Modification Zhengzhao Jiang, Xiaoyan Xu, Makoto Ouchi
1P3B003	Synthesis of Hydroxy-Group Containing Multiple-Substituted Polymers via Polymerization of Compounds Exhibiting Keto-Enol Tautomerism <u>Taiki ISODA</u> ,Naoki FUJIWARA,Konomi YAMASHITA,Hironobu WATANABE,Mineto UCHIYAMA,Masami KAMIGAITO
1P3B004	Precision Synthesis and Evaluation of Monodisperse Thermoresponsive Polymer Combining Living Radical Polymerization and Preparative Purification Keito HIRANO, Natsumi OHIRA, Kenta SOMA, Mineto UCHIYAMA, Masami KAMIGAITO
1P3B005	Radical polymerization of vinyl monomer mediated by cyclic RAFT agent <u>Kota Oto</u> , Akinori Takasu
1P3B006	Polymerization of Vinyl Methacrylate in MOF Pore for Hetero-Ladder Polymer <u>Rintaro Yamaguchi</u> , Yuki Kametani, Takashi Uemura
1P3B007	Development of heterogeneous PET-RAFT polymerization system using silica particle-immobilized porphyrin <u>Masanori Nagao</u> ,Aya Horie,Yu Hoshino,Yoshiko Miura
	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS
1P3B009	Investigation of Mechanical Properties of Water-Based Latex Films with Different Particle Structures <u>Hayato Suzuki</u> , Yuma Sasaki, Kazuya Uenishi, Kazuko Nakazono, Toshikazu Takata, Daisuke Suzuki
1P3B010	Preparation of the cured epoxy resins without glycidyl ether structure and evaluation of their properties <u>Naoya Yamaguchi</u> , Toshiyuki Oyama, Kazuo Arita
1P3B011	Enhanced Mechanical Properties of Biopolybenzimidazoles by Silica-particle Etching <u>Jiabei Zhou</u> ,Aniruddha Nag,Xianzhu Zhong,Kenji Takada,Tatsuo Kaneko
1P3B012	Fabrication of Mechanical Metamaterial Structures for 3D Chiral Transformation <u>Yukihide Tashiro</u> , Koki Yagyu, Syo Kazukuchi, Hiroshi Endo
1P3B013	Modification of alicyclic epoxy resin by utilizing in situ polymerization of methacrylates and acrylates
	Risa Kimura, Toshiyuki Oyama

	Ko Harada, Chu Pinjung, Atsuhiro Fujimori
1P3B015	Creation of fluorinated polymer / fluorinated carbon nanotube composite with introduced dispersion agent as third component and its drawn orientation characteristics <u>Kai XU</u> , Ahmed A. Almarasy, Atsuhiro Fujimori
1P3B016	Grafting of polythiophene to silica nanoparticles by surface-graft polymerization (I) -Control of graft chain length- <u>Minghao Yuan</u> ,Masahiro Fujita,Yuko Takeoka,Masahiro Rikukawa
1P3B017	Development of self-healable and ionic conductive hybrids using ion-dipole interaction <u>Yuito SONTA</u> , Yusuke SASAKI, Hideharu MORI
1P3B018	Synthesis of polystyrene derivative-silica hybrids using thiol-ene reaction <u>Asuka Kitahara</u> ,Eri Matsukawa,Kimihiro Matsukawa,Kaoru Adachi
1P3B019	Evaluation of up-conversion based on triplet- triplet annihilation in the hydrophobic clay thin films <u>Ayaka Tsuchiya</u> , Hideki Kawai
1P3B020	Fabrication of heat-resistant conductive composites using microwave heating. Shun KURANOUCHI, Hiroshi SAITO, Tetsu MITSUMATA, Norio TSUBOKAWA, Akihiro ORITA, Atsushi TAKAHASHI, Saori MIURA, Takeshi YAMAUCHI
1P3B021	Humidity-Resistant Self-Healing Polymer Glasses: A New Design Principle Based on Nano-Phase Separation <u>Yuta Fujisawa</u> , Yiling Nan, Atsushi Asano, Yu Yanagisawa, Keiichi Yano, Yoshimitsu Itoh, Takuzo Aida
1P3B022	Development of the material search technique for photosensitive polymer <u>Masaru Yamasaki</u> ,Minoru Hoshino,Akitoshi Tanimoto,Masahiko Ebihara,Tatsuya Makino,Masahiro Miyasaka,Yasuharu Murakami,Hanaoka Kyohei
Online Roo	om PosterP4
	B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES
1P4B026	Direct Observation of Microscopic Deformation of Deuterated Molecular Chains for Investigating Relationship of Molecular Weight Distribution and Tensile Properties of Semi-Crystalline Polymeric Solids Takumitsu Kida , Ryo Tanaka, Takeshi Shiono, Masayuki Yamaguchi
1P4B027	Formation of isotactic polypropylene a form crystals with different order and their melting and recrystallization behaviors Koji Yamada, Kenichi Funaki, Takahiro Miyoshi, Misako Inagaki, Koji Nozaki, Ken Taguchi, Akihiko Toda
1P4B028	Crystallization under shear flow for isotactic polypropylene containing sorbitol-derivative <u>Khunanya Janchai</u> , Takumitsu Kida, Takahiro Inoue, Shohei Iwasaki, Masayuki Yamaguchi
1P4B029	Effect of low-molecular-weight polystyrene on shear viscosity of polypropylene Nantina Moonprasith , Takumitsu Kida, Muhammad Shahrulnizam Nasri, Riza Asmaa Saari, Panitha Phulkerd, Masayuki Yamaguchi
1P4B030	Corporation of Mixed Solution of Butanol and Acetone by Syndiotactic Polystyrene with Nanopore Crystal Takahiko Nakaoki,Saki Fujino

Porous particles of Stereocomplex Poly lactic acid Takahiko Nakaoki, <u>Yoshiki Tamura</u>

1P4B031

	1P4B032	Molecular dynamics of melt-memory effect in crystallization: Effects of melt structure on recrystallization pathway and crystal deformation/fracture Takashi Yamamoto , Althaf Hussain, Shigeru Yao	
	1P4B033	Quasi-elasitc Neutron Scattering Study on Dynamics of SBR in SBR-silica Nanoc omposites <u>Takeshi Yamada</u> ,Taiki Tominaga,Masayuki Kawazoe,Sousa Nicolas R de	
	1P4B034	All-atom simulation of formation and dissolution of Polyethylene Glycol crystals under Stretching <u>Kosuke Aomura</u> ,Koichi Mayumi,Kazushi Fujimoto,Hideaki Yokoyama,Kohzo Ito	
	1P4B035	Crystallization behavior of Poly(ε-caprolactone) brushes with Poly(vinyl butyral) as an additive Takayuki Ikehara,Syuuta Hara, <u>Yuudai Tega</u>	
	1P4B036	Melting and reorganization behavior of propylene random copolymer containing polymorphic crystals <u>Ken TAGUCHI</u> ,Akihiko TODA,Ken-ichi FUNAKI,Koji YAMADA	
		D. BIOPOLYMERS AND BIORELATED POLYMERS	
	1P4B038	Biosynthesis of the C-terminal domain of major ampullate spidroin in marine purple photosynthetic bacterium Rhodovulum sulfidophilum. <u>Takuma Kawaguchi</u> , Choon Pin Foong, Ali D. Malay, Keiji Numata	
	1P4B039	HS-AFM analysis of spider silk protein MaSp2 <u>Haruka Taketa,</u> Takuma Kawaguchi,Choon Pin Foong,Hirotaka Uji,Keiji Numata	
	1P4B040	Synthesis and evaluation of self-assembling peptoid Yuya Yamada, Yoshiaki Hirano	
	1P4B041	Evaluation of amelogenin-derived peptide for biomineralization Yusuke Tamba, Tatsuo Yajima, Masato Ueda, <u>Yoshiaki Hirano</u>	
	1P4B042	HAP mineralization on scaffolds composed of collagen and β-turn peptide composites for bone repairing material Mio Takada,Shogo Matsubara,Masahiro Higuchi	
	1P4B043	Preparation and characterization of capsules formed from Biodegradable Coacervate droplets and SrxCa1-xCO3 Shells. <u>Yuya Mizuno</u> ,Syuhei Komatsu,Akihiko Kikuchi	
	1P4B044	Design of pH-Responsive Polypeptide Nanoparticles with Dynamic Molecular Binding Sites <u>Tomoya Iwagaki</u> ,Masaaki Kanazawa,Akifumi Kawamura,Takashi Miyata	
Wed. May 25 Presentation Time <12:30~13:30> Online Room PosterP1			
	A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS		
	1P1C001	Syntheses of Sequence-Controlled Polymers with Side-Chain Transformable (Meth)acrylsulfonamide Monomers <u>Tamaki Kondo</u> ,Tomoka Yoshimura,Makoto Ouchi	
	1P1C002	Radical (Co)polymerizations of Vinylene, Vinylidene, and Butadiene Derivatives Bearing Two Boronic Acid Ester Moieties <u>Koki Hirano</u> ,Tsuyoshi Nishikawa,Makoto Ouchi	
	1P1C003	Interaction between sugar-containing polymer and lectin Kaito Yokota, shin-ichi Yusa	
	151000		

Precision Polymerization of Conjugated Diene Derived from Cinnamic

1P1C004

1P1C005	Synthesis and Polymerization of Cyclic Vinyl Monomer Bearing Multiple Functional Groups <u>shoji Hirabayashi</u> ,Yasuhiro Kohsaka
1P1C006	Effect of templates on the radical cyclopolymerization of a diacrylate forming 20- membered ring <u>Daiki Yagura</u> , Yoshimasa Matsumura, Bungo Ochiai
	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS
1P1C008	Step-π-conjugated polymers (176) Synthesis of macromolecular wire with two different blocks. <u>Kota Tanaka</u> , Haoxuan Guo, Hiroyuki Aota
1P1C009	Step-π-conjugated polymers (177) Photoinduced electron transfer of macromolecular wire with electron donor and acceptor at terminals <u>Daisuke Kitayama</u> , Haouxuan GUO, Hiroyuki Aota
1P1C010	Step-π-conjugated polymers (178) Investigation of optimal reaction conditions for pseudo-living polymerization and synthesis of structure-controlled polymers . <u>Nozomi Tokura</u> , Haoxuan GUO, Hiroyuki Aota
1P1C011	Step-&pai-conjugated polymers(179) Synthesis of macromolecular wire with different skeletons in the main chain. <u>Daisuke Morinaka</u> , Haoxuan GUO, Hiroyuki Aota
1P1C012	Sensitizer-Host-Annihilator ternary blend films for improvement in solid- state photon upconversion Yasunari Tamai, Yuji Sakamoto
1P1C013	Improvement of prediction accuracy by machine learning of photophysical properties of organic fluorescent materials <u>Masahiro Koike</u> ,Shunichiro Ito,Kazuo Tanaka,Tsuyoshi Koga
1P1C014	Energy-gap law of nonradiative transition in fused ring pi conjugated molecules <u>Yuki Sato</u> ,Takumi Tanaka,Masahiko Saito,Tsubasa Mikie,Itaru Osaka,Hideo Ohkita
1P1C015	Size control of silica domain of polymethacrylate-silica nanocomposites and their physical properties Shinya Watanabe, Noeru Kishita, Reiko Saito
1P1C016	physicochemical and functional properties of poly(ethylene carbonate)/organoclay composites <u>Kota Ishihara</u> , Yoichi Tominaga
1P1C017	Preparation and evaluation of a blended electromagnetic wave shield sheet by combining carbonized algae residue, conductive polymer and cellulose <u>Kyoka Komaba</u> ,Makoto M Watanabe,Reiji Kumai,Hiromasa Goto
1P1C018	Hybrid Polycyclosiloxanes Bearing Bio-Based Benzoxazine as Side-Chain Crosslinking Moieties: Synthesis and Characterization <u>Buket Akkus</u> ,Huie Zhu,Masaya Mitsuishi
1P1C019	Fabrication of diodes using titanium dioxide films deposited by electrodeposition <u>Yoshiyuki Tsukiyama, Mitsuru Watanabe, Koji Mitamura, Masashi Nakamura, Toshiyuki Tamai, Hiroyuki Enomoto, Seiji Warase</u>
1P1C020	Biodegradable property of polymer composites filled with lignin extracted by simultaneous enzymatic saccharification and comminution Takumi Karasawa , Kazuhiro Shikinaka, Yuichiro Otsuka, Yoichi Tominaga
1P1C021	Effect of silane coupling agent on tribological and mechanical properties of

Aldehyde

Yasunobu Isobe, Tomohiro Kubo, Kotaro Satoh

cellulose nanofiber/epoxy composites Hiroki Uramatsu,<u>Hiroshi Eguchi</u>,Kenji Nagata

Online Room PosterP2

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES	
1P2C026	Effects of Thermal History on Structure of Silica Compound Rubber <u>Takahiro Tono,</u> Yusuke Nakazawa,Takama Suzuki,Yasuaki Ando,Mamoru Aizawa,Tomoko Fukazawa
1P2C027	Stress-Induced Crystal Transformation of Poly(butylene naphthalate) <u>Tatsuya Teranishi</u> , Takuya Matsumoto, Takashi Nishino
1P2C028	Additive effects of paraffin on mechanical properties of high-density polyethylene <u>Bin Ropandi Mohammad Akid Naqiuddin</u> ,Asae Ito,Koh-hei Nitta
1P2C029	Local deformation behaviors of thermoplastic elastomers studied by transmission electron microscopy <u>Junsei Aoki</u> ,Daisuke Watanabe,Tomohiro Miyata,Hsao-Fang Wang,Hironori Marubayashi,Hiroshi Jinnai
1P2C030	Study of Higher-Order Structure of Poly(trimethylene terephthalate) by Low-Frequency Vibrational Spectroscopy <u>Yota Maruyama</u> ,Harumi Sato
1P2C031	Structures and properties of electrospun polyamide nanofibers from deuterated solvents Dongyang Li,Wataru Takarada,Takuya Yamamoto, <u>Hidetoshi Matsumoto</u>
1P2C032	Effect of nucleating agent on polymer crystallization analyzed using the original Avrami model <u>Akihiko Toda</u>
1P2C033	Molecular entanglement characteristics and its melt drawability of reactor blended ultrahigh-molecular-weight polyethylene <u>Ayaka Takazawa</u> ,Masaki Kakiage,Hiroki Uehara,Takeshi Yamanobe,Yui Shimizu,Takuya Ohnishi,Yasutake Wakabayashi,Shigehiko Abe
1P2C034	Effect of high-pressure hydrogen gas on crystalline polymer materials <u>Fumitoshi Kaneko</u> ,Keiko Ohyama,Hirotada Fujiwara,Shin Nishimura
1P2C035	Local structure and growth mechanism of polymer spherulites studied by nanodiffraction imaging <u>Hironori Marubayashi</u> , Koichi Azuma, Shusuke Kanomi, Tomohiro Miyata, Hiroshi Jinnai
1P2C036	Light Scattering from poly(p-phenylene sulfide) crystallized near glass transition temperature <u>Yasutoshi TANZAWA</u> ,Taichi INUKAI
	D. BIOPOLYMERS AND BIORELATED POLYMERS
1P2C038	A novel method to link in the field of engineering and biological knowledge

	Shuichi Hirose, Shogo Yamamoto, Toru Teraya, Masakazu Kobayashi, Seiichiro Kishishita, Hideaki Miyake, Kosuke Baba, Masato Konya, Yoshiaki Fukuda, Shigeki Morii
1P2C039	Development of a transient chemical reaction cycle of amphiphiles under aqueous environments <u>Yume Nakagawa</u> ,Miki Mori,Kohei Sato,Kazushi Kinbara
1P2C040	Evaluation of cell adhesion and detachment phenomenon on the

cytocompatible phospholipid polymer bearing phenylboronic acid Masaki Harada, Yuta Yoshizaki, Tomohiro Konno Structural changes of alkaline-treated woods and evaluation of liquid 1P2C041 absorption and compression behaviors. Rika Takenaka, Daisuke Ishii 1P2C042 Evaluation of wetting behavior of micro-protrusion structures covered by metal surfaces Sumire Isachi, Daisuke Ishii 1P2C043 Excretion analysis of uric acid and indoxyl sulfate in rat intestinal-loop using mercaptobenzimidazole-modified electrode RINA KUTSUNO, TAISEI NONAKA, KIMIYOSI ICHIDA, KYOKO FUJITA Effect of unusual amino acid-containing peptide segments on structural 1P2C044 feature of a multi-functional molecular frame Takahiro Suzuki, Yoshihito Inai Wed. May 25 Presentation Time <13:30~14:30> Online Room PosterP3 A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS 1P3D001 Toward Synthesis of Degradable Polymers by Radical Polymerization of Cyclic Ketene Aminals Shoki YOSHIMURA, Yuki SAKATA, Marina MATSUDA, Chihiro HOMMA, Mineto UCHIYAMA, Masami KAMIGAITO 1P3D002 Toward Synthesis of Degradable Polymers by 1,5-Shift Radical Polymerization Masato IMAI, Kaoru MATOBA, Takayuki TANIMOTO, Mineto UCHIYAMA, Masami KAMIGAITO Reversible Chain Transfer Catalyzed Polymerization Using Carbon Catalyst 1P3D003 in Miniemulsion Polymerization System Masaya Sadakane, Yukiya Kitayama, Eiji Yuba, Atsushi Harada 1P3D004 Polymerization of More-Activated Monomers Using Poly(Vinyl Ether) Macro-**CTA** Mikito Muratomi, Mikiya Ishihara, Atsushi Matsumoto, Yasushi Maeda, Shinji Sugihara 1P3D005 Synthesis of poly(α-methylene-γ-butyrolactone) by radical polymerization mediated by metal reduction ability of a facultative bacterium and the evaluation of its biodegradability Kota Nishii, Kayo Terada, Kazusato Oikawa, Kousuke Tsuchiya, Keiji Numata 1P3D006 Synthesis of dithiocatechol-functionalized polymers Jincai Li,Hirotaka Ejima C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS Development of Monodispersed Cross-Linked Polymer Liquid Crystal 1P3D008 Particles with Controlled Molecular Orientation Kazuki Kawai, Shodai Hayashi, Tomoki Shigeyama, Kyohei Hisano, Osamu Tsutsumi 1P3D009 Circularly polarized luminescence of helical aromatic conjugated polymers synthesized in chiral liquid crystal field Hiroki Emi, Satoru Yoshida, Hiromasa Yamamoto, Kosuke Kaneko, Tomonori Hanasaki, Kazuo Akagi

Photocontrol of Circularly Polarized Luminescence Induced in Conjugated

Polymers using Photoinvertible Chiral Liquid Crystals

1P3D010

	Satoru Yoshida, Santa Morikawa, Kosuke Kaneko, Tomonori Hanasaki, Kazuo Akagi
1P3D011	Heterogeneous structural analysis and transparency evaluation of transparent polymers for optical communication <u>Takahiro Hiraide</u> , Daiki Tenma, Norihisa Tanio
1P3D012	Study on Ruthenium Complex for Light-Emitting Electrochemical Cells using Polymer Gel with Ionic Liquid <u>Kazuto Ogura</u> , Atsushi Aoki
1P3D013	Effect of Hybridization of Luminescent Iridium Complexes with Polysilsesquioxane on Luminescence Properties <u>Yuki Kuroda</u> , Masashi Nakamura, Koji Mitamura, Mitsuru Watanabe, Masahiro Muraoka, Seiji Watase
1P3D014	Optical Properties and Energy Transfer Mechanism in Beta-Diketone-Type Eu(III) Complexes containing Arsine Oxide Ligands <u>Haruki Shimoji</u> ,Toshiki Fujii,Akifumi Sumida,Hiroaki Imoto,Kensuke Naka
1P3D015	Synthesis and functionalization of silsesquioxane nanoparticles containing fluoroalkyl groups Shota MURATA , Hideharu MORI
1P3D016	Synthesis and morphology design of multi-layered nanocomposite microgels <u>Takumi Watanabe</u> ,Satoki Ushida,Haruka Minato,Daisuke Suzuki
1P3D017	Preparation and physical properties of acryl/ alumina transparent hybrid materials using charge repulsion <u>Yuma Fujita</u> ,Kaito Suzuki,Hideki Sugimoto,Syogo Nobukawa,Katsuhiro Inomata
1P3D018	Synthesis of aromatic polyamide-silica composite particles capable of selectively separating metal ions <u>Yayoi Yoshioka</u> , Takuya Ehiro
1P3D019	Preparation and physical properties of urethane acrylate / alumina transparent composite material <u>Kazuki Okabe</u>, Nanaho Shirota, Hideki Sugimoto, Syougo Nobukawa, Katsuhiro Inomata
1P3D020	The effect of nanostructure of poly(tert-butyl methacrylate-silica nanocomposites on mechanical properties <u>Noeru Kishita</u> ,Shinya Watanabe,Reiko Saito
1P3D021	Preparation and physical properties of cellulose nanofiber/acryl transparent composite materials Kousuke Kondou, Yuki Tsuchida
1P3D022	The preparation of Janus nanosheets through the growth of poly(methyl methacrylate) in one side of haxaniobate nanosheets and subsequent exfoliation Ryosuke Ishikawa, <u>Takuma Kamibe</u> , Ryoko Suzuki, Regis Guegan, Renzhi Ma, Kimihiro Matsukawa, Yoshinobu Tujii, Yoshiyuki Sugahara
Online Roo	m PosterP4
	B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES
1P4D026	Sub-micron Scale Structural Analysis of Stretched Polyethylene by STXM Masato Arakawa, Mizuki Kishimoto, Yohei Nakanishi, Kazuki Mita, Mikihito Takenaka
1P4D027	Adsorption of ethanol for syndiotactic polystyrene/atactic polystyrene or poly(2,6-diphenyl-1,4-phenylene oxide). Takahiko Nakaoki, Mikito Nishioka

Spherulite growth of polymers from the melt under electric field Masahiro OHMORI, <u>Masato HASHIMOTO</u>, Tomoko MIZUGUCHI, Susumu

1P4D028

FUJIWARA

1P4D029	A study of the intermolecular interactions of styrene acrylonitrile copolymer by low-frequency Raman spectroscopy. <u>Hiromasa Yamamoto</u> , Harumi Sato	
1P4D030	Absorption of ethanol in ethanol aqueous solution of syndiotactic polystyrene depending no ethanol concentration Takahiko Nakaoki, <u>Manato Yamawaki</u>	
1P4D031	Structural Analysis of Polymer Electrolyte Fuel Cell Membranes under Moisture Regulated Stretching SORA WATANABE,GO MATSUBA	
1P4D032	The effects of annealing on the fracture of PMMA <u>Daisuke Iwahara</u> ,Shotaro Nishitsuji,Hiroshi Ito,Mikihito Takenaka,Masaru Ishikawa,Takashi Inoue	
1P4D033	Thermal Behavior of Poly(butylene succinate) by Low-frequency Raman and Terahertz Spectroscopy Kohei Ito,Harumi Sato	
1P4D034	Structural Analysis of Conductive Filler Composite Self-Healing Materials Kengo Nishiura, Go Matsuba, Junsu Park, Yoshinori Takashima	
1P4D035	Anisotropic and Macroscopic Structural Change Driven by Molecular Scale Reversible Orientation <u>Kohei Amada</u> ,Wataru Kukai,Jun Matsui	
1P4D036	Composition Ratio Dependence of Self-Assembled Structures Formed by Comb-shaped Random Copolymers <u>Mao Kikuchi</u> , Nozomi Saito, Mizuki Ooke, Shusaku Nagano, Shotaro Nishitsuji, jun Matsui	
1P4D037	Chemical Functionalization of Novel Free-Standing Reticular Polymeric Nanomembranes Formed within Unconventional Electric Double Layer <u>Yudai Yokoyama</u> , Yoshimitsu Itoh, Pier-Luc Champagne, Takuzo Aida	
1P4D038	Effect of polymer end groups on the formation of pseudo-polyrotaxane nanosheet Riku Kanno,Shuntaro Uenuma,Hideaki Yokoyama,Kohzo Ito	
1P4D039	Preparation of Ionic Diodes from Porous SiO2 Thin Films and Polymer LbL Films Narumi KUMAKURA, Yuya ISHIZAKI, Shunsuke YAMAMOTO, Masaya MITSUISHI	
1P4D040	Development of surface initiated living polymerization of phenylacetylene derivatives on gold substrates <u>Naoya Asakura</u> , Tsuyoshi Taniguchi, Tatsuya Nishimura, Katsuhiro Maeda	
1P4D041	Development and evaluation of novel functional materials that mimic bee's antenna cleaner <u>Masanori Yoshida</u> ,Rikima Kuwada,Shuto Ito,Daisuke Ishii	
D. BIOPOLYMERS AND BIORELATED POLYMERS		
1P4D043	Incorporation of model membrane proteins in lipid nanodiscs consisting of phospholipid and amphiphilic cyclic peptides Hiroki Miwa, Ryosuke Nagao, Isamu Akiba	
1P4D044	Development of amino-acid-modified chitosan nanoparticles for controlled gel degradation and evaluation of their stability in biological environments <u>Masato Ogawa</u> , Yoshihiko Murakami	
1P4D045	Temperature dependence of near-infrared to visible up-conversion in dye- encapsulated liposomes <u>Ryoya Tagata</u> ,Hideki Kawai	

1P4D046 Fabrication of titanium dioxide coated peptide nanowire composites on the

templates composed of gold nanoparticle networks and their electrochemical properties

Toma Iwakiri, Hikari Suzuki, Shogo Matsubara, Masahiro Higuchi

1P4D047 Evaluation of up-conversion in dye-encapsulated nanoparticles

Ryota Mizutani, Hideki kawai

1P4D048 Evaluation of up-conversion in cholesterol-containing liposomes

Urara Hioki, Hideki Kawai

Wed. May 25

Presentation Time <14:30~15:30>
Online Room PosterP1

	A. FOLIMER CHEMISTRI: SINTHESIS AND REACTIONS
1P1E001	Controlled Cationic Polymerization with Redox-Active Catalysts Containing Heavy Element <u>Shuhei Hayashi</u> ,Koji Takagi
1P1E002	Cationic Polymerization of Styrene Derivatives Using Pnictogen, Chalcogen, Halogen Bonding Organocatalysts as Lewis Acid <u>Tomoki Hasegawa</u> ,Nao Sakakibara,Koji Takagi
1P1E003	Cationic polymerization of e-caprolactone using natural organic acid under bulk condition Moe Sasai, <u>Suguru Motokucho</u> , Hisayuki Nakatani
1P1E004	Design of Salicylic Acid-Based Initiators toward Stereospecific Living Cationic Polymerization of Vinyl Ether <u>JeongHyeon Lee</u> ,Hiroyuki Kubota,Makoto Ouchi
1P1E005	Investigation toward ABC-Type Periodic Terpolymer Synthesis via Photoinitiated Living Cationic Terpolymerization of Vinyl ether, Oxirane, and Ketone Yuto Eguchi, Arihiro Kanazawa, Sadahito Aoshima
1P1E006	Cationic Copolymerization of Sugar-Derived Cyclic Acetals <u>Aya Katto</u> , Arihiro Kanazawa, Sadahito Aoshima
1P1E007	Alkali Metal Carboxylate-Catalyzed Controlled/Living Ring-opening Polymerization of Epoxides <u>Tianle Gao</u> ,Xiaochao Xia,Takuya Isono,Kenji Tajima,Toshifumi Satoh
	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS
1P1E009	Electrochemically generated upconverted luminescence from acene compounds using DNA hybrid film incorporating Ru(bpy) ₃ ²⁺ Ryuki Ozawa,Kazuki Nakamura,Takashi Tachikawa,Norihisa Kobayashi
1P1E010	Structure and chiral photophysical properties of chiral Eu(III) complex associated with hydrophobic DNA containing alkylammonium cations Ren Kaneko, Kazuki Nakamura, Norihisa Kobayashi
1P1E011	Step &pi-conjugated polymer (180) Synthesis and study of electron transfer for amphiphilic macromolecular wire with different energy levels Yusei Takahashi, Haoxuan GUO, Hiroyuki Aota
1P1E012	Step-π-conjugated polymer(181)Electron transfer evaluation of Pt and Pt/TiO2 bonded to macromolecular wires. <u>Natsuki Kobayashi</u> ,Takuya Nakamura,Haoxuan GUO,Hiroyuki Aota
1P1E013	Step-π-conjugated polymers (182) Preparation of a macromolecular-wire devices synthesized by stepwise methods on Au electrode <u>Yuriko Takemura</u> , Haoxuan GUO, Hiroyuki Aota
1P1E014	Syntheses and properties of narrow-bandgap polymers (30) Synthesis of

	narrow-band-gap polymers capable of bonding with silver nanoparticles Ryo Nishimura,Haoxuan GUO,Hiroyuki Aota
1P1E015	Chirality amplification based on salt formation between optically active camphorsulfonic acid and an imidazole-containing fluorenone derivative <u>Xiaoyuan Wang</u> , Masayoshi Bando, Zhiyi Song, Tamaki Nakano
1P1E016	Chemical adhesion of an acryl film to a glass substrate using the Cu-free click reaction <u>Yusuke Kanki</u> ,Sayuki Kanemitsu,Shota Yamamoto,Koki Miyahara,Kenta Morita,Masaki Matsui,Tatsuo Maruyama
1P1E017	Strong Instant Underwater Adhesives by Using Hydrophobic Hydrogen Bonding Unit <u>Kohei Kikkawa</u> ,Yu Yanagisawa,Yoshimitsu Itoh,Takuzo Aida
1P1E018	Factors dominantly affecting the adhesive strength of acrylamide-based hydrogels Aya Mizutani Akimoto, Yuto Nakano, Takafumi Enomoto, Taihei Nishimoto, Ying Gao, Yuji Ohta, Nobuyuki Tanaka, Yo Tanaka, Xiang Li, Mitsuhiro Shibayama, Ryo Yoshida
1P1E019	Structure formation using polymerization-induced phase separation and creation of hydrophobic surfaces <u>Shodai Onozato</u> , Yasuhito Suzuki, Akikazu Matsumoto
1P1E020	Observation of fluid behavior at the interface of the concentrated polymer brush using PIV Ken Tamamoto , Yuji Kinose, Yoshinobu Tsujii
1P1E021	Patterning of Super-hydrophilic Polymer Brush on TiO ₂ -containing Coating for Self-cleaning Applications <u>Kenya Katayama</u> , Daichi Nakamura, Yoshimi Iijima, Hidetoshi Iijima, Kenichi Oyaizu, Takeo Suga
1P1E022	Friction force anisotropy of the metal micro groove structures by sliding directions. <u>Yohei Shimada</u> , Yuji HIrai, Masatsugu Shimomura
Online Roo	om PosterP2
	B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES
1P2E026	Polypyrrole-coated Fatty Acid Particles as Liquid Marble Stabilizer <u>Yusuke Tsumura</u> , Anne-Laure Fameau, tomoyasu Hirai, Yoshinobu Nakamura, Syuji Fujii
1P2E027	Synthesis of nitrogen-containing carbon tubes by near-infrared light irradiation <u>Kanade Matsui</u> ,Kenshin Yamamoto,Keigo Oyama,Tomoyasu Hirai,Yoshinobu Nakamura,Syuji Fujii
1P2E028	Stabilization of Non-aqueous Polyhedral Liquid Marbles <u>Yamato Iwata,</u> Tomoyasu Hirai,Yoshinobu Nakamura,Syuji Fujii
1P2E029	Non-spherical Polymer Particles Synthesized by Solvent-free Polyaddition Reaction <u>Shoichiro Aoki</u> ,Tomoyasu Hirai,Yoshinobu Nakamura,Syuji Fujii
1P2E030	Particle size control mechanism of surface-modified hollow silica nanoparticles <u>MINGHAO LU</u> ,Yuichi Iki,Keisuke Inagaki,Reiko Saito
1P2E031	Polymer Nanogels Possessing Hierarchical Structure by Aqueous Dispersion Polymerization Shunsuke Takigawa, Yukiya Kitayama, Eiji Yuba, Atsushi Harada

Preparation of polypropylene/polystyrene composite particles by seeded

1P2E032

emulsion polymerization

	Ryohei Morimoto, Toyoko Suzuki, Hideto Minami
1P2E033	Preparation of hydrophilic hollow bio-based polymer particles Katsuhiro Onita,Miku Onishi,Taro Omura,Takeshi Wakiya, <u>Toyoko</u> <u>Suzuki,</u> Hideto Minami
1P2E034	Preparation of Electro-Optical Responsive Liquid Crystal Nanocapsules by Miniemulsion Polymerization of O/W Emulsion Monomer Droplets Reina Kojima, Michinari Kohri, <u>Tatsuo Taniguchi</u> , Keiki Kishikawa, Takashi Karatsu
	D. BIOPOLYMERS AND BIORELATED POLYMERS
1P2E036	Stabilization of Nucleic Acid Triplexes by Cationic Comb-Type Copolymers with Different Main Chain Frameworks <u>Raito Hayashi</u> , Youta Abe, Naohiko Shimada, Shigeru Yamago, Atushi Maruyama
1P2E037	Photoswitching for DNA strand displacement reaction by photoresponsive polymer
1000000	Yuki Hirayama, Atsushi Maruyama, Naohiko Shimada
1P2E038	Automated control of microtubules swarm programmed with a DNA cascade reaction
	<u>Kohei Nishiyama,</u> Daiki Matsumoto,Ibuki Kawamata,Arif Md. Rashedul Kabir,Kazuki Sada,Shin-ichiro Nomura M.,Akira Kakugo
1P2E039	End-activation of self-immolative poly(carbamate) derivatives in response to
	external stimuli <u>Ren Ishiyama,</u> Yudai Takahashi,Shione Fukumoto,Syuuhei Komatsu,Akihiko Kikuchi,Yoshitsugu Akiyama
1P2E040	Synthesis of Biocompatible Aliphatic Polycarbonate-Based Copolymers Including Lactone Sequences Natsuha Momma,Kazuki Fukushima,Takashi Kato
1P2E041	Development of the lipase-immobilized core-shell fibermats using cellulose acetate as a shell layer <u>Taira Ishiguro</u> , Toshihisa Mizuno, Akiko Obata, shoma Muramathu, Tomohito Takagi
1P2E042	Effect of calcium salt on hydration structure of cholinephosphate-type polymer brush <u>Takumi Komiya</u> , Motoyasu Kobayashi
1P2E043	Development of Polyion Complex Vesicle loaded with a pH sensitive fluorescence probe <u>Takumi Obara</u> , Yasutaka Anraku, Jumpei Norimatsu, Takayoshi Watanabe
1P2E044	Development of a novel self-assembling peptide capable higher-order
11 215044	structural transition for injured brain regeneration <u>Atsuya Yaguchi</u> , Hirotsugu Hiramatsu, Itsuki Ajioka, Takahiro Muraoka
1P2E045	A promoted redox activity of copper complexes by forming locally concentrated state through installing on the polymer sidechains toward antibacterial application Shigehito Osawa, Kenichi Kitanishi, Maho Kiuchi, Motoyuki Shimonaka, Hidenori Otsuka
1P2E046	Characterization of matrix-bound nanovesicles (MBVs) derived from various decellularized tissues. Mako Kobayashi, Yoshihide Hashimoto, Jun Negishi, Hideki Saga, Yoshihiro Sasaki, Kazunari Akiyoshi, Tsuyoshi Kimura, Akio Kishida
1P2E047	Design of hydrophobized alginates and association behavior <u>Kaori Moriwaki</u> ,Shin-ichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi

1P3F001	Radical and anionic polymerizations of polar vinyl monomers by Lewis pair catalysts <u>Riki Akita</u> , Mayo Horibe, Shin-ichi Matsuoka, Masato Suzuki
1P3F002	Lewis pair polymerization of n-butyl acrylate using boron compounds as a Lewis acid <u>Yuka Naganawa</u> ,Shin-ichi Matsuoka,Masato Suzuki
1P3F003	Anionic Polymerization of (Meth)acrylic Thioester Utilizing Their High Reactivity <u>Shuhei Nakagawa</u> ,Haruna Morishima,Shinichi Matsuoka,Koji Takagi,Masahito Suzuki
1P3F004	Chain-end modification of sequence-controlled oligomer composed of 1,1-diphenylethylene derivatives by successive living anionic addition reaction <u>Tomohiko Nishijima</u> ,Kazuki Takahata,Raita Goseki,Takashi Ishizone
1P3F005	Anionic polymerizability of 5-substituted-2-isopropenylthiophenes <u>Yuki Kurishiba</u> ,Raita Goseki,Takashi Ishizone
1P3F006	Design of acrylate monomers for ring-opening polymerization by conjugate substitution reaction and the synthesis of unsaturated polyesters Natsumi Nishiie , Yasuhiro Kohsaka
1P3F007	Chirality induction to polydibenzofulvene derivatives having pi-stacked conformation

1P3F016	Surface Segregation Behavior of Hydrophilic Octasilicate Derivatives in a Polymer Matrix	
	<u>Ichiyou Tokuami</u> ,Rina Suzuki,Mayu Nagao,Hiroaki Imoto,Kensuke Naka	
1P3F017	Effect of structure and physical properties of super engineering plastics on friction and wear behavior Syuya Kawabata , Rei Hondo, Syota Suzuki, Masaki Kakiage, Hiroki Uehara, Takeshi Yamanobe, Masaya Nakajima, Taku Naganuma, Junichi Nozawa, Yoshiyuki Matsumoto, Tetsuya Sonobe	
1P3F018	Single-molecule mechanics measurement of electrostatic attraction by a cationic polymer chain and an anionic polymer chain Ken-ichi Shinohara, Yuga Onuki, Hideo Higuchi	
1P3F019	Morphology control of gold nanoparticles immobilized on an amino group- displayed plastic substrate <u>Sarina Yoshida</u> ,Takane Tsuchi,Mimari Matsumoto,Kenta Morita,Tatsuo Maruyama	
1P3F020	Remote Manipulation of Elastomer Film Containing Liquid Metal by Near-Infrared Laser <u>Hizuma Takahashi</u> , Minami Taya, Hiroshi Endo	
1P3F021	Fabrication of UV-cured films of methacylate resins containing disulfide bonds for pollutant removal <u>Masahiro Furutani</u> ,Keiji Washida	
1P3F022	Analysis of the mechanism of penguin feathers to withstand high water pressure Ryosuke KAWASAKI, Daisuke ISHII, Rikima KUWATA, Yosuke ZAITSU, Masanori KURITA	
Online Room PosterP4		

	B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES
1P4F026	Quantifying the contributions of crystallinity and crosslinking density in Energy Storage Capacity of Shape-memory Polymers <u>FULATI AILIFEIRE</u> , Koichiro Uto, Mitsuhiro Ebara
1P4F027	Effect of inhibition of crosslinking in radical polymerization of a methacrylate with five-membered cyclic carbonate on mechanical properties <u>Tetta Seki</u> , Yoshimasa Matsumura, Bungo Ochiai
1P4F028	Evaluation of Mechanical Properties of Epoxy Resin with Heterogeneous Structure via Nanoindentation <u>Runa Otani</u> ,Eri Nakagawa,Takahito Ohmura,Yoshihisa Fujii,Naoya Torikai
1P4F029	Organic salts composed of tetracene dibenzenesulfonic acid and alkylamines: control of molecular arrangements and their relationship with concomitant photoelectric properties <u>Hiroki Imoba</u> ,Kouki Oka,Norimitsu Tohnai
1P4F030	Melting and recrystallization behaviors of strained silicone rubber <u>Miyu Umeda</u> ,Hal Suzuki
1P4F031	Evaluation of Water Diffusion Behavior on Crop Surfaces by Site <u>Junki Miyamoto</u> , Daisuke Ishii
1P4F032	Evaluation of barnacle larvae settlements on the patterned surface functional groups substrates <u>Jumpei Watanabe</u> ,Kei Mikami,Takayuki Murosaki,Yasuyuki Nogata,Masatsugu Simomura,Yuji Hirai
1P4F033	Analysis of Hydrogen Bonds inside Reverse Micelles by Molecular Dynamics Simulation <u>Yuri Ono</u> ,Tomoko Mizuguchi,Mao Fukuyama
1P4F034	Molecular dynamics simulation of the micelle formation and self-sorting of

	amphiphilic copolymers <u>Nami Sato</u> ,Tsuyoshi Koga	
1P4F035	Complex formation of lysine-containing copolymer with copper and its pH-responsibility Kengo Takagi , Chun-Jen Huang, Shin-ichi Yusa	
1P4F036	Evaluation of surface structure of microspheres with different charge distribution Ryuji Namioka, Takumi Inui, Nishizawa Yuichiro, Daisuke Suzuki	
1P4F037	Evaluation of Compressed Microgel Arrays Adsorbed at Air/Water Interfaces <u>Haruka Minato</u> ,Tetsuya Noguchi,Kohei Yanagi,Daisuke Suzuki	
1P4F038	Self-Assemblies of Zwitterionic Block Copolymers containing Phosphobetaine and Their Salt Responsivities Shu Morita, Hideki Matsuoka, Yoshiyuki Saruwatari	
	D. BIOPOLYMERS AND BIORELATED POLYMERS	
1P4F040	Development of asymmetric transmembrane amphiphiles Aoi Okuma,Kohei Sato,Kazushi Kinbara	
1P4F041	Polyion complexes (PIC) aggregates with glucose groups-containing shells <u>Tomoki Ando</u>	
1P4F042	Formation of Amphiphilic Liquid Crystalline Polymer Self-Assemblies and Their Morphological Control <u>Maika Togawa</u> , Yuki Hirano, Yasuaki Inoue, Akifumi Kawamura, Takashi Miyata	
1P4F043	Elucidation of the effect of microtubule-associated proteins on the viscoelasticity of microtubules <u>Kosuke Matsumura</u> , Akira Kabasawa, Kazuki Sada, Kiyotaka Tokuraku, Arif Md. Rashedul Kabir, Akira Kakugo	
1P4F044	pH-responsive control of lipid membrane morphology by amphiphilic polymers <u>Nao Kaneko</u> ,Shutaro Takahashi,Naohiko Shimada,Eiji Yuba,Atsushi Harada,Atsushi Maruyama	
1P4F045	Design and function of reactive magnetic nanogels for biomolecular delivery <u>Katsuya Ozeki</u> ,Shinichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi,Ryosuke Mizuta	
1P4F046	Preparation of reversible hydrogels with star-shaped zwitterionic polymers <u>Yoshiki Hosobe</u> ,Yuta Yoshizaki,Tomohiro Konno	
1P4F047	Design and Size Control of One-Dimensional Molecular Assemblies Composed of Amphiphilic Graft Copolymers Yusuke Sakamoto, Tomoki Nishimura	
Thu. May 26 Presentation Time <9:30~10:30> Online Room PosterP1		
A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS		
2P1A001	Synthesis and characterization of threonine/glutamic acid-based self-healing polymeric materials Ryo Kudo , Yurika Tani, Ryo Yonenuma, Hideharu Mori	
2P1A002	Synthesis and surface characterization of cyclic polycaprolactone containing perfluoroheptyl group Kota Manabe, Kenji Sugiyama	

SYNTHESIS AND SURFACE PROPERTY OF END-FUNCTIONALIZED

2P1A003

	POLYCAPROLACTONE WITH PERFLUOROOCTYLAZOBENZENE MOIETIES <u>Keita Okuzawa</u> ,Kenji Sugiyama
2P1A004	Precision synthesis and film surface properties of hydrophobic multibranched star polymers with various structures. <u>Hiroki Tanigawa</u> ,Shohei Ida,Shokyoku Kanaoka
2P1A005	Synthesis and properties of tripodal poly(methyl methacrylate) utilizing an incompletely condensed cage silsesquioxane as a scaffold Ryota Tanaka,Amato Igarashi,Taihei Hayashi,Hiroaki Imoto,Kensuke Naka
2P1A006	Synthesis of Various Thermoresponsive Polymers by Living Cationic Polymerization Using Multifunctional Initiator and Their Thermoresponsive Behavior in Water Yuyu Furuki, Arihiro Kanazawa, Sadaito Aoshima
2P1A007	Formation and property of st-PMMA/coronene inclusion complex Ituki Tousya , Wakana Miyamoto, Tomohiro Ueno, Hitomi Mukai, Takehiro Kawauchi
2P1A008	Molecular Simulation of Living Supramolecular Polymerization Yudai Taguchi, Tsuyoshi Koga
2P1A009	Supramolecular assembly of structured macrocyclic polyamides Shogo Nakamura, Hiroyuki Tamada, Kohei Sato, Kazushi Kinbara
2P1A010	Oxidation Mechanism in Polymer Surface Modification using Photo-activated Chlorine Dioxide <u>Keita Yamamoto</u> , Haruyasu Asahara, Tsuyoshi Inoue
2P1A011	Synthesis of Polyaniline in an organic liquid crystal. <u>Ryo Miyashita</u> , Hiromasa Goto
2P1A012	Synthesis and Characterization of Polypyrroles Using Germanium Catalyst and Plasma <u>Kazuki Yanagida</u> ,Hiromasa Goto
	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS
2P1A014	Partially-fluorinated anion-conductive terpolymers: effect of aliphatic side chains on membrane properties <u>Yoshihiro Ozawa</u> ,Kenji Miyatake
2P1A015	Effects of succinonitrile on the relationship between ionic conductivity and structural relaxation time of PEO-based electrolytes <u>Tatsuya Shiraishi</u> , Yuya Doi, Takashi Uneyama, Yuichi Masubuchi
2P1A016	Synthesis and Characterization of Supramolecular Electrolytes Composed of Polyether and Boroxine (1) - Effect of Polyether with Amino Group on One Chain End on Various Properties - Mengen Guo, Kouhei Takahashi, Yuko Takeoka, Masahiro Rikukawa, Masahiro Fujita
2P1A017	Development of Lithium-Ion Conductive Liquid Crystals Having Fluorinated Mesogens <u>Shingo Takegawa</u> ,Eiji Hosono,Kazuma Hamaguchi,Junya Uchida,Takashi Kato
2P1A018	Fabrication and evaluation of polymer nanofiber composite electrolyte membranes with various lithium salt concentrations Kenta Sando, Nohara Yokota, Manabu Tanaka, Hiroyoshi Kawakami
2P1A019	Mechanical and structural characteristics of the ionic liquid-based gel electrolytes with a homogeneous polymer network Mayu Osugi, Kenta Fujii
2P1A020	Ion-conductive properties of carbonate-based polyurethane electrolytes <u>Yuta Fujiyoshi</u> , Yoichi Tominaga
2P1A021	Preparation and Characterization of Solid Electrolytes Using Ionic Plastic

Shuho Akakabe, Ryoutarou Sekiguchi, Yuko Takeoka, Masahiro Rikukawa, Masahiro Fujita Synthesis of Highly Hydrophilic TEMPO-substituted Polymer Nanoparticles 2P1A022 as Cathode-active Materials for Redox Flow Batteries with pH-Neutral Aqueous Electrolytes Ayano Tsukamoto,Kan Hatakeyama,Hiroki Aramaki,Junichi Oizumi,Kenichi Oyaizu 2P1A023 IrO2 decorated conjugated polymer substrate as highly durable water splitting catalyst Yusaku Asai, Rajashekar Badam, Noriyoshi Matsumi Online Room PosterP2 **B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES** 2P2A026 Particle Dispersion and Viscoelastic Property for the Polystyrene Composite with Mixed Fumed Silica with Hydrophilic and Hydrophobic Surfaces Momona Fukuura, Yoshihisa Fujii, Naoya Torikai 2P2A027 Analysis of epoxy/silica nanostructures by STEM-ELNES Shin Horiuchi, Takeshi Hanada, Atsuomi Shundo, Satoru Yamamoto, Keiji Tanaka Theoretical Study on Baroplastic Behavior of Block Copolymers 2P2A028 Hiroki Degaki, Ikuo Taniguchi, Shigeru Deguchi, Tsuyoshi Koga 2P2A029 Toughness and Heat Resistance Improvement Effect of Alicyclic Epoxy Thermoset Modified with POSS having Different Functional Groups Yosuke Hosaka, Miyuki Harada, Daisuke Tanida, Yusaku Sainohira, Akihiro Shibamoto 2P2A030 Effects of multicyclic polymers on structure and properties of thermoplastic elastomers Hironori Marubayashi, Atsushi Imasaki, Yamato Ebii, Yoshinobu Mato, Takuya Isono, Toshifumi Satoh, Hiroshi Jinnai Effects on Particle Dispersion and Rheological Property for a Polystyrene 2P2A031 Composite by Mixing Dry Silica with Different Aggregation States Miyu Iwata, Yoshihisa Fujii, Naoya Torikai 2P2A032 Investigation of characteristic cylindrical structures formed from ABAC Tetrablock Terpolymers. Tsuyoshi Orido, Jiro Suzuki, Atsushi Takano, Yushu Matsushita D. BIOPOLYMERS AND BIORELATED POLYMERS 2P2A034 Enzymatic synthesis of peptides with cysteine at N-terminal and polymerization using Native Chemical Ligation Shota Sakamoto, Seiya Fujita, Hirotaka Uji, Kousuke Tsuchiya, Keiji Numata 2P2A035 Chemical synthesis of resilin-directed polypeptide by dityrosine crosslinking Shogo Takemura, Shota Sakamoto, Hirotaka Uji, Kousuke Tsuchiya, Keiji Numata 2P2A036 Study on improving the efficiency of the mitochondrial targeting peptide by stabilizing the helical structure Mako Kuzumoto, Naoya Abe, Ayaka Tateishi, Kayo Terada, Seiya Fujita, Simon

Sau Yin Law, Tsuyohiko Fujigaya, Keiji Numata

unusual amino acid residues Hiromasa Sugiura, Yoshihito Inai

2P2A037

Synthetic condition and structure evaluation of peptide sequence containing

Crystals and Ionic Conducting Polymer (I) -Effects of IPC Addition on

Various Properties-

2P2A038	Effect of the amino acid sequence in a short-chain peptide on the stereocomplex formation <u>Shiho Seguchi</u> , Takane Tsutii, Sayuki Kanemitsu, Kunihisa Sugimoto, Kennta Morita, Tatsuo Maruyama
2P2A039	Degradation of amide bonds using self-assembling peptides <u>Toshihisa Kimura</u> ,Natsumi Shimizu,Kenta Morita,Tatsuo Maruyama
2P2A040	Protein folding promotion by thiol compounds bearing cationic units <u>Mai Kitamura</u> ,Shunsuke Okada,Takahiro Muraoka
2P2A041	Structural stabilization of microtubules by photoaffinity labeling of Tauderived peptide <u>Soei Watari</u> , Hiroshi Inaba, Rashedul Kabir Arif Md., Akira Kakugo, Kazuki Sada, Kazunori Matsuura
2P2A042	Presentation of post-crosslinkable copolymer onto cell surfaces and examination of cross-linking reaction between them Tatsuki Nakakubo , Toshihisa Mizuno
2P2A043	Polydopamine-Assisted Surface Functionalization of Exosomes <u>Chenyu Wang</u> ,Hirotaka Ejima
2P2A044	Development of drug-releasing sheets formed from multiple polysaccharides <u>Shoya Homma</u> , Yoshihiko Murakami
2P2A045	Design of Tissue-Adhesive Microparticles for Perforation Closure after Early Gastrointestinal Cancer Removal Shima Ito , Akihiro Nishiguchi, Fumisato Sasaki, Hidehito Maeda, Masayuki Kabayama, Akio Ido, Tetsushi Taguchi
2P2A046	PEG-grafted degradable thermoresponsive hydrogels capable of repeatedly removing adsorbed proteins <u>Naoki Kamei</u> ,Syuuhei Komatsu,Akihiko Kikuchi
2P2A047	Body distribution of water-soluble polymeric MRI contrast agent for stem cell tracking <u>Chihiro Hiruno</u> , Kyoko Fukazawa, Yuichi Ohya, Tetsuji Yamaoka
2P2A048	Design of polysaccharide nanogels conjugated adjuvants and function of antigen carrier <u>Yuki Yazawa</u> ,Shinichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi

Thu. May 26

Presentation Time <10:30~11:30> Online Room PosterP3

2P3B001	Synthesis of optically active star-shaped polyacetylenes by core gel method Shota Mino, Masahide Goto, Hiromitsu Sogawa, Fumio Sanda
2P3B002	A relationship between structures and thermoresponsive properties of PAMAM dendrimers with two kinds of oxazoline units on the surface Yui Nishikawa, Makoto Kishi, Keigo Aoi
2P3B003	Synthesis and thermoresponsive properties of a PAMAM dendrimer having N-acyl imino unit and N-hydroxyethyl amido unit at the surface sector <u>Takumi Ueyama</u> , Makoto Kishi, Keigo Aoi
2P3B004	Synthesis of Hyperbranched Polymer Derived from Caffeic Acid using Acid Catalysts Risa Fujita , Tomohiro Kubo, Kotaro Satoh
2P3B005	Synthesis of brush block copolymers bearing hyperbranched polyamide and polyhedral oligomeric silsesquioxane at side chain by means of ring-opening metathesis polymerization Shuuji NAKAZAWA, Mizuki SATO, Hiroki KOBAYASHI, Yoshihiro

OHTA, Tsutomu YOKOZAWA

2P3B006 Synthesis of polyether bottlebrushes

<u>Moeka Tamaki,</u>Kohji Ohno,Yoshinobu Tsujii

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

	C. FUNCTIONAL FOLTMERS AND FOLTMER FUNCTIONS
2P3B008	Relationship between Efficient Power Conversion and Energy Loss in Nonfullerene Polymer Solar Cells <u>Rei Shirouchi</u> , Toshiharu Saito, Shin-ichiro Natsuda, Yasunari Tamai, Hideo Ohkita
2P3B009	Dependence of fill factor on the active layer thickness in all polymer solar cells based on crystalline donor polymers <u>Jihun Jeon</u> , Hyung Do Kim, Hideo Ohkita
2P3B010	Relationship between Interfacial Charge Transfer State and Open-Circuit Voltage in Various Polymer Solar Cells with Different Acceptors <u>Takumi Ishikawa</u> ,Takuya Ide,Hyung Do Kim,Hideo Ohkita
2P3B011	Azo and imino groups containing BIAN based porous conjugated polymer and its applications for anodic material in lithium-ion secondary batteries Bharat Srimitra Mantripragada, Rajashekar Badam, Noriyoshi Matsumi
2P3B012	Fast charging lithium-ion full cell using polymer derived heavily nitrogen doped carbon <u>Kottisa Sumala Patnaik</u> ,Badam Rajashekar,Tatsuo Kaneko,Noriyoshi Matsumi
2P3B013	Studies on mechanism of improvement of Li ion battery performance in the presence of poly(vinylphosphonic acid) anodic binder Noriyuki Takamori, Tadashi Yamazaki, Badam Rajashekar, Noriyoshi Matsumi
2P3B014	Effect of function group content on carbon black substrate on Li-O2 battery performance <u>LiHang Zhou</u> ,Rajashekar Badam,Noriyoshi Matsumi
	F. INDUSTRIAL POLYMERS AND TECHNOLOGY
2P3B016	Temperature dependence of diffusion coefficients of water in contact with cis-1,4-polyisoprene <u>Hikaru Higuchi</u> ,Tomoko Ikeda-Fukazawa
2P3B016 2P3B017	Temperature dependence of diffusion coefficients of water in contact with cis-1,4-polyisoprene
	Temperature dependence of diffusion coefficients of water in contact with cis-1,4-polyisoprene <u>Hikaru Higuchi</u> ,Tomoko Ikeda-Fukazawa Studies on the effects of natural rubber proteins on the strain-induced crystallization of natural rubber sheets. <u>Takato Matsui</u> ,Choon Pin Foong,Takuma Aoyama,Hiroyasu Masunaga,Katsuhiko Tsunoda,Kenji Urayama,Kousuke Tsuchiya,Keiji
2P3B017	Temperature dependence of diffusion coefficients of water in contact with cis-1,4-polyisoprene Hikaru Higuchi, Tomoko Ikeda-Fukazawa Studies on the effects of natural rubber proteins on the strain-induced crystallization of natural rubber sheets. Takato Matsui, Choon Pin Foong, Takuma Aoyama, Hiroyasu Masunaga, Katsuhiko Tsunoda, Kenji Urayama, Kousuke Tsuchiya, Keiji Numata Preparation and properties of polymer alloys consisting of multifunctionalized benzoxazine and bismaleimide resins
2P3B017 2P3B018	Temperature dependence of diffusion coefficients of water in contact with cis-1,4-polyisoprene Hikaru Higuchi,Tomoko Ikeda-Fukazawa Studies on the effects of natural rubber proteins on the strain-induced crystallization of natural rubber sheets. Takato Matsui,Choon Pin Foong,Takuma Aoyama,Hiroyasu Masunaga,Katsuhiko Tsunoda,Kenji Urayama,Kousuke Tsuchiya,Keiji Numata Preparation and properties of polymer alloys consisting of multi-functionalized benzoxazine and bismaleimide resins Taichi Shibatsuka,Kouya Ishii,Takehiro Kawauchi Examination of spinning conditions for water-system silicone-modified polyurethane nanofibers Toshihisa Tanaka,Kaisuke Nishibu,Keishiro Ono,Daisuke Noda,Shinji
2P3B017 2P3B018 2P3B019	Temperature dependence of diffusion coefficients of water in contact with cis-1,4-polyisoprene Hikaru Higuchi, Tomoko Ikeda-Fukazawa Studies on the effects of natural rubber proteins on the strain-induced crystallization of natural rubber sheets. Takato Matsui, Choon Pin Foong, Takuma Aoyama, Hiroyasu Masunaga, Katsuhiko Tsunoda, Kenji Urayama, Kousuke Tsuchiya, Keiji Numata Preparation and properties of polymer alloys consisting of multifunctionalized benzoxazine and bismaleimide resins Taichi Shibatsuka, Kouya Ishii, Takehiro Kawauchi Examination of spinning conditions for water-system silicone-modified polyurethane nanofibers Toshihisa Tanaka, Kaisuke Nishibu, Keishiro Ono, Daisuke Noda, Shinji Irifune, Hiromasa Sato Fabrication of high heat-resistant poly(ether ketone) nanofibers by electrospinning

Kenya Matsuo, Takeru Kameyama, Takumi Okihara 2P3B023 Surface Modification of Polyethylene Naphthalate Substrates by Plasma Treatment and UV Irradiation and their Application in Electroless Deposition: the Chemical and Physical Properties of the Substrate Surface Laver Toshiyuki Tamai, Mitsuru Watanabe, Yasuyuki Kobayashi, Jyunpei Kobata, Rie Kakehashi, Yoshio Nakahara, Setsuko Yajima Physiochemical analysis of hard shell of plants and design guidelines for 2P3B024 functionally graded materials Rikima Kuwada, Daisuke Ishii Online Room PosterP4 **B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES** 2P4B026 Transparent glass fiber composite from a refractive index adjustable polymer Takayuki Hirai, Kenichi Yagi, Kyoko Nakai, Kazuo Okamoto, Takuro Matsunaga, Hirotaka Okamoto 2P4B027 Control of nanophase separation structure and mechanical properties of acrylic elastomer by trifluoroethyl group. Yuki Hirayama, Yoshimasa Matsumura, Bungo Ochiai 2P4B028 Mechanical and Adhesive Properties of Liquid Crystalline Epoxy/Clay Composites Hiroya Yamamoto, Miyuki Harada 2P4B029 Viscoelastic properties of natural rubber with polystyrene nanomatrix Seiichi Kawahara, Kota Endo, Yoshimasa Yamamoto Thermal Conductivity of Liquid Crystalline Epoxy/Cellulose Nanofiber 2P4B030 Composites Miku Kimura, Saki Ota, Miyuki Harada 2P4B031 Aggregation States and Thermal Molecular Motion of Poly(glycolic acid)/hyperbranched Polymer Composites in a Nanofiber State Reiki Eto, Hisao Matsuno, Keiji Tanaka 2P4B032 Investigation of Molecular Weight Dependence of Domain Size of MicroPhase-Separated Structures for ABC Triblock Terpolymers. Ayane Kitahara, Tsuyoshi Orido, Jiro Suzuki, Takashi Honda, Atsushi Takano.Yushu Matsushita D. BIOPOLYMERS AND BIORELATED POLYMERS 2P4B034 Cryoprotectant activity of fragment peptides from anti-freezing proteins Yota Imahori, Kazuya Matsuo, Tomonori Waku, Akio Kobori 2P4B035 Synthesis and Structural Analysis of Coordination Polymers Composed of Peptides with N-methylalanine Residues Yiying Peng, Yota Shiratori, Jumpei Morimoto, Shinsuke Sando 2P4B036 Development of cell-penetrating bioconjugate phospholipid polymers for antigen delivery Koki Onoda, Yuta Yoshizaki, Tomohiro Konno 2P4B037 Development of a cell type-selective PG-surfactant for the transport of exogenous peptides Momoka Yamada, Natsumi Sumito, Toshihisa Mizuno 2P4B038 Controlled association of nanogel with protein by controlled microwave irradiation

Yunting Ma, Tomoya Yagita, Yoshihiro Sasaki, Hikaru Takaya, Shinichi

	Sawada,Kazunari Akiyoshi
2P4B039	Peptide-based anticancer drug that induces apoptosis of cancer cells via tyrosine kinase-triggered intracellular self-assembly Kenta Morita, Kanon Nishimura, Shota Yamamoto, Natsumi Shimizu, Takashi Aoi, Atsuo Tamura, Tatsuo Maruyama
2P4B040	Synthesis and conformational analysis of helical peptide sequence designed by incorporation of unusual amino acid Yuka Hanamura, Yoshihito Inai
2P4B041	Effects of ionic structure and water content on dissolution and refolding of aggregated cellulase in hydrated ionic liquids Kazune Kobayashi,Anna Ito,Syun Yanagisawa,Kimiyoshi Ichida,Kyoko Fujita
2P4B042	Degradation mechanism on retinal prosthesis using photoelectric dyes coupled to polyethylene film surface <u>Mayu Mitsui</u> , Koichiro Yamashita, Tetsuya Uchida
2P4B043	Development of the lactate dehydrogenase (LDH)-encapsulated core-shell fibermat Yuna Kato, Toshihisa Mizuno
2P4B044	Evaluation of retinal prosthesis using photoelectric dyes with various anions for improving durability <u>Masato Matsushima</u> , Koichiro Yamashita, Tetsuya Uchida
2P4B045	Corrosion and Adhesion Behavior of Osteoblasts of Pure Magnesium with Polydopamine Coating Sayuki Yoshitomi, Minori Sugiyama, Youichi Mizuno, Daiki Sannomiya, Kunimitsu Nakamura, Sachiro Kakinoki
2P4B046	Evaluation of bacteria adhesion onto surfaces immobilized with peptide mimicking collagen backbone. <u>Yuma Matsushita</u> , Yasuhiko Iwasaki, Masato Ueda, Sachiro Kakinoki
2P4B047	Effect of hydration swelling layers on cell/polymer material interactions Yuki Sudo,Shin-nosuke Nishimura,Daiki Murakami,Masaru Tanaka
2P4B048	Effect of hydrophilic side-chain terminal groups on hydration state and antithrombogenicity of polymers <u>Azusa Yamamoto</u> ,Shingo Kobayashi,Masaru Tanaka

Thu. May 26Presentation Time <12:30~13:30> Online Room PosterP1

2P1C001	Synthesis by Dehydration Condensation and Evaluation of Conjugated Polymers containing Azine Bonds in the main chain KYOYA KOBAYASHI , Hiroki MURAKAMI, Keita SUZUKI, Takaki KANBARA, Junpei KUWABARA
2P1C002	Metal-free synthesis of π -conjugated polymers using divanillin-derived monomers via cycloaddition polymerization Yuki Kakita, Hiromitsu Sogawa, Fumio Sanda
2P1C003	Synthesis of semi-aromatic polyimides with suppressed salt formation and application to low dielectric materials <u>TSUTOMU SATO</u> , TAIKI ENDO, TOMOAKI MAENO, YASUNORI KAWABATA, TOMOYA HIGASHIHARA
2P1C004	Synthesis of Aromatic Poly(ether)s by S_NAr Reaction Activated with Phosphine Sulfides and Their Transformation to Polyelectrolytes Possessing Tetra-arylphosphonium Units Ryoyu Hifumi, Shinsuke Inagi, Ikuyoshi Tomita

2P1C005	Synthesis and Anomalous Refractive Index Properties of Poly(phenylene sulfide) Derivatives Bearing Sulfur-Containing Pendants and Hydroxy Groups Seigo Watanabe, Hiromichi Nishio, Kenichi Oyaizu
2P1C006	Synthesis of Novel Poly(arylene ether)s with Triphenylamine and Triazine Units <u>Yuta Oyama</u> ,Ryosuke Takahashi,Tomoya Higashihara
2P1C007	Synthesis of fluorine-containing polyimides from tetracarboxylic dianhydrides with perfluoroalkylene groups Ryuhei Niinuma , Tadashi Tsukamoto, Yuji Shibasaki, Yoshiyuki Oishi
	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS
2P1C009	Preparation of highly porous heat-resistant polybenzoxazole network films and their electrical conductivities Atsu Goto, <u>Tetsuya Uchida</u>
2P1C010	Fabrication of new platinum-loaded polymer-grafted CNT for application as fuel cell electrode materials. <u>Tsukasa SAITO</u> , Hiroshi SAITO, Tetsu MITSUMATA, Norio TSUBOKAWA, Takeshi YAMAUCHI
2P1C011	Performance improvement of oxygen barrier sandwich PEM by thickness reduction <u>Zulfi Al Rasyid Gautama</u> , Yasir Arafat Hutapea, Stephen M. Lyth, Kazunari Sasaki, Masamichi Nishihara
2P1C012	Fabrication and properties of crosslinked-PVA nanofiber-framework composite membrane for fuel cell <u>Yasutaka Kuwahara</u> ,Toyotaka Nakae,Kazuma Komine,Hiroyoshi Kawakami
2P1C013	Preparation of cathode catalysts of polymer electrolyte fuel cells by pyrolysis of polymer precursors consisting of metallic phthalocyanine and π-electron conjugated moieties <u>Hiroki Matsumoto</u> , Takafumi Suzuki, Hidenori Takasawa, Tsukasa Ichikawa, Izuru Kobayashi, Nobukatsu Nemoto, Yudai Kitagawa, Kotaro Yoshioka, Yuki Sakamoto, Masaji Akimoto
2P1C014	Local oxygen transport resistance reduction in PEFC electrocatalyst layer by gas permeable ionomers <u>Yasir Arafat Hutapea</u> ,Zulfi Al Rasyid Gautama,Akari Hayashi,Kazunari Sasaki,Masamichi Nishihara
2P1C015	Electrical conductivity of silica capsules coated with sodium polystyrene sulfonate Yuichi Iki, <u>Reiko Saito</u>
2P1C016	Controlled disassembly of pseudo-polyrotaxane nanosheets by axial-end modification <u>Yumi Shikano</u> ,Shuntaro Uenuma,Hideaki Yokoyama,Kohzo Ito
2P1C017	Functionalization of Pseudo-polyrotaxane Nanosheets by Click Reaction Minaka Sugano, Shuntaro Uenuma, Naoki Ando, Hideaki Yokoyama, Kohzo Ito
2P1C018	Preparation of high heat and thermal conductivity rigid polymer nanofibers and their application to polycarbonate composite films. <u>Takafumi Mitsue</u> , Tetsuya Uchida
2P1C019	Development of Water Dispersible Curcumin Hyperbranched Polymer Yusuke Nakayama, Sunnam Kim, Tsuyoshi Hukaminato, Seiji Kurihara

Online Room PosterP2

2P2C026	Multifunctional benzoxazines with π-conjugated moieties: synthesis, thermal curing, and CO2 adsorption <u>Masanobu Muraoka</u> , Masahide Goto, Masaki Minami, Da-yang Zhou, Takeyuki Suzuki, Tatsuo Yajima, Jun'ichi Hayashi, Hiromitsu Sogawa, Fumio Sanda
2P2C027	Principles for Determining the Critical crack length of Tough and Self-Healing Polyampholyte Gels Reina WATANABE, Kunpeng Cui, Jian Ping GONG
2P2C028	Relationship between magnetorheological effect and flowability of gel-matrix for carrageenan magnetic hydrogels Masahiro Kaneko, Kawai Mika, Mitsumata Tetsu
2P2C029	Synthesis and properties of bio-based carbonate resins using tyramine as a starting material Soma GOTO, Kozo MATSUMOTO
2P2C030	Swelling Properties in Polyacrylonitrile Gel prepared by Freezing and Thawing Method and the Semidilute scaling of Osmotic Pressure Yutaka Tanaka ,Sho Nakajima,Shogo Furui
2P2C031	Deformation-Driven Volume Change in Polyelectrolyte Gels <u>Akihiro Nagano</u> ,Kenji Urayama
2P2C032	Synthesis and Swelling Behavior of Bilayer Gels by Free Radical Polymerization in Phase-Separated Solvent System <u>Ryuto Soma</u> ,Shohei Ida,Shokyoku Kanaoka
2P2C033	Effects of Primary Structure of Reactive Polymers on Gel Structure and Mechanical Properties <u>Tsutomu Furuya</u> , Tsuyoshi Koga
2P2C034	Numerical Simulation of Neck Propagation in Double Network Hydrogel <u>Isamu Riku</u> ,Koji Mimura
2P2C035	Relationship between the nanostructures of hydrogel microspheres and chemical species <u>Yuichiro Nishizawa</u> , Takayuki Uchihashi, Daisuke Suzuki
	D. BIOPOLYMERS AND BIORELATED POLYMERS
2P2C037	Novel method for preparing porous sheets by using spontaneous emulsification <u>Tuan Vu Bui</u> , Yoshihiko Murakami
2P2C038	Fabrication of Calcium Carbonate coated Vesicles having target recognition and the pH regulated Drug Release abilities for DDS Carrier Nana Kato, Syogo Matsubara, Masahiro Higuchi
2P2C039	The development of molecular block using ursodeoxycholic acids as cell membrane disruption molecules <u>Kazuki Moroishi</u> , Masahiko Nakamoto, Michiya Matsusaki
2P2C040	Fabrication of Membrane-type Enzyme Clusters Targeted Polyglutamic Acid Derivatives that Synergistically Inhibit Cancer Cell Proliferation Yuki Koba, Masahiko Nakamoto, Michiya Matsusaki
2P2C041	Preparation of DDS carriers having magnetite shell and the regulation of drug release <u>Yuuka Chinda</u> ,Shogo Matsubara,Masahiro Higuchi
2P2C042	Ligand number-tunable graft copolymers: Synthesis and cellular uptake evaluation <u>Masaru Cho</u> , Yurugi Kinoshita, Mitsuru Naito, Yusuke Watanuki, Jongmin Yum, Beob Soo Kim, Yuichi Yamasaki, Kanjiro Miyata
2P2C043	Self-assembly of Copolymers Consisting of a Glycerol-based Monomer and a Vitamin E Monomer Xiaoxi Liu,moemi Matsuda,Tooru Ooya

Preparation of phospholipid polymer nanoparticles with functional surface 2P2C044 property for controlled release of bioactive molecules Yuki Harada, Yuta Yoshizaki, Tomohiro Konno

Stimuli-responsive drug release using with cytocompatible phospholipid 2P2C045 polymer bearing reversible binding to poorly soluble compounds Ryoko Hosaka, Yuta Yoshizaki, Tomohiro Konno

Thu. May 26

Presentation Time <13:30~14:30> Online Room PosterP3

	A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS
2P3D001	Synthesis of Periodic Polymers Possessing the Dense 1,2,3-Triazole Backbone Tomoki Omae,Yuri Kamon,Masaki Nakahata,Akihito Hashidzume
2P3D002	Synthesis and Characterization of Novel Polyimides Derived from Diamine Monomers Containing Perfluoroalkylene Unit and Ethyl Group Tamako Nakamura, Yuriko Ito, Tadashi Kanbara, Ryohei Ishige, Shinji Ando, Tomoko Yajima
2P3D003	Preparation of Itaconyl dichloride of high purity and its application to the synthesis of unsaturated polyesters <u>Yoshino Aoki</u> ,Ryo Kawatani,Yasuhiro Kohsaka,Souichi Tezuka,Yoshikazu Kimura
2P3D004	Polymer Synthesis by Baylis-Hillman Reaction of Vinyl ketones Containing Fluorene Skeleton <u>Masatoshi Ohyama</u> ,Rie Yasuda,Hirotsugu Kuratani,Yasuhiro Kohsaka
2P3D005	Synthesis of chiral polyurethane and cyclic dimer and their aggregation-induced chirality amplification Zhiyi Song, Gingyu Wang, Adriana Pietropaolo, Masayoshi Bando, Naofumi Naga, Tamaki Nakano
2P3D006	Effect of Monomer Structure on Polymerization Reactivity in Polyhydroxyalkylation Using Superacid Mariko Fukaya, Kazuya Matsumoto, Mitsutoshi Jikei
2P3D007	Poly(thioether) Degradable via Main-Chain Scission: Controls of Polymerization and Depolymerization by Understanding Reaction Mechanisms Anri Tanaka,Keito Hagiwara,Ryo Kawatani,Yasuhiro Kohsaka
2P3D008	Synthesis of degradable biopolyurethanes containing cleavable disulfide bonds <u>Riko Ikezumi</u> , Hiromitsu Sogawa, Fumio Sanda
C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS	
2P3D010	Photocatalytic reaction by metal complexes accumulated on normally oriented one-dimensional cylindrical channel surface Sadayuki Asaoka, Maki Komoda, Keita Nakao, Yoshiaki Tanio
2P3D011	Chirality-Amplification Sensing Using a Dynamic Helical Oligomer

Gas transport properties of polypyrrolone - silica hybrid membranes

Asymmetric catalysts utilizing seaweed-derived polysaccharides: synthesis,

Amane Homma, Gaku Fukuhara

Ayumi Asano, Tomoyuki Suzuki

structure and their catalytic activity

Manaho Murakishi, Hiromitsu Sogawa, Fumio Sanda

2P3D012

2P3D013

2P3D014	Fluorescence sensing of fluoride ion using poly(diphenylacetylene) derivatives bearing pendant anilide groups <u>Keisei Nagasawa</u> ,Daisuke Hirose,Katsuhiro Maeda
2P3D015	Biomass-derived adsorbent for selective capture of certain organic compounds Shinsuke Tokuoka, Masato Seno, Hirofumi Fukunaga, Shigeki Uehira
2P3D016	A Soluble Polymer-Supported Chiral Dirhodium(II) Complex : Recyclable Catalyst for Asymmetric Intramolecular C-H Insertion Reactions Hitomi Sato, Koji Tsubowa
2P3D017	Gas permeation property of PIM-1 membrane at high temperature <u>Mizuki Akatsuka</u> , Masafumi Yamato, Hiroyoshi Kawakami
2P3D018	Rim modified cyclodextrin derivatives containing polymer chain Kaito Yamashita, <u>Reiko Saito</u>
2P3D019	Preparation of Supramolecular Structure from 6-O-Methylated Cyclodextrin <u>Haruya Ishida</u> ,Justine Kalaw,Hajime Shigemitsu,Toshiyuki Kida
2P3D020	Fabrication of polyarylate nanofibers by solution electrospinning using pyridine/chloroform mixed solvent Shigeki Okada , Tomoki Maeda, Atsushi Hotta
2P3D021	Preparation of crystalline polyimide nanofiber by using solution
	crystallization <u>Shota Kumano</u> ,Tomoyasu Takaki,Kei Suzuki,Satoshi Matsushima,Toshiyuki Goshima,Tetsuya Uchida
Online Roo	m PosterP4
	B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES
2P4D026	Epoxy resins with high heat resistance via a new process <u>Hajime Kimura</u> , Morio Yonekawa, Keiko Ohtsuka
2P4D027	Development of High Tg and High Barrier Properties Materials via Schiff Base-derived Self-polymerization of Mesogenic Epoxy Resins Saki Ota, Naho Ueda, Koji Michishio, Miyuki Harada
2P4D028	High thermal conductivity of epoxy-modified benzoxazine by liquid crystal structure formation Momoka Takahashi,Maki Murai,Ryusei Nakane,Miyuki Harada
2P4D029	An Effect of Flexibility of Epoxy Component on Reaction Kinetics and Mechanical Properties of Epoxy Resins Nguyen Thao Phan, Mika Aoki, Atsuomi Shundo, Satoru Yamamoto, Keiji Tanaka
2P4D030	Study on Morphology and Mechanical Properties of Polyisoprene Ionomers Neutralized with Different Metal Cations <u>Rina Takahashi</u> , Yohei Miwa, Shinichiro Hamajima, Shoichi Kutsumizu
2P4D031	Dynamics Analysis of Dynamic Bond Elastomers via Coarse-Grained Molecular Dynamics Simulations. <u>Yusuke Yasuda</u> , Hiroshi Morita
2P4D032	Observation of Strain-Induced Crystallization in Slide-Ring Gels near Crack Tip <u>Sohei Kawahara</u> ,Chang Liu,Koichi Mayumi,Hideaki Yokoyama,Kohzo Ito
2P4D033	Physical properties and functionalization of bottle brush polymer cross-linked gels Takuto Hirayama, Taichi Nishi, Keita Namba, Takahide Takenami, <u>Takuma</u> <u>Kureha</u>
2P4D034	Full-atom molecular dynamics simulation of sliding dynamics of polyrotaxanes

Haru Shinohara, Yusuke	Yasuda, Koichi Ma	ayumi,Kazushi l	Fujimoto,I	I ideaki
Yokovama.Kohzo Ito				

2P4D035 Biaxial Stretching of Polycatenane Network <u>Hiroya Kawanishi</u>,Takuma Aoyama,Kenji Urayama

D. BIOPOLYMERS AND BIORELATED POLYMERS

2P4D037	Evaluation of Hyaluronic Acid-Coated Polyion Complex Micelles Carrying Antigen and Adjuvant as Intranasal Vaccine <u>Takuma Kato</u> ,Kengo Suzuki,Yuta Yoshizaki,Nobuo Murase,Yuichi Ohya
2P4D038	Development of drug carrier-chitosan hybrid formulation for oral drug delivery <u>Michihiro Beppu</u> , Yoshihiko Murakami
2P4D039	Preparation of porous microparticles with ultra-low-density by using spontaneous emulsification for the pulmonary DDS application Ryo Taguchi , Yoshihiko Murakami
2P4D040	Inclusion Complexation Behavior of Avigan into Cyclodextrin <u>Kanade Kudo</u> ,Noriyuki Nakajima,Masahiro Hamada,Yasuhito Koyama
2P4D041	Macrophage surface lectin recognition of hydrophobized polysaccharide nanogels and function of antigen carriers <u>Tatsuhiro Okuda</u> ,Shin-ichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi
2P4D042	Development of antigenic peptide delivery system by using intracellular environment-responsive peptide nanofibers <u>Masaya Yamamoto</u> ,Kazuya Matsuo,Tomonori Waku,Akio Kobori
2P4D043	Evaluation of cationic polysaccharide nanogels as mucosal vaccine carrier by mucosal epithelial model <u>Sotaro Iguchi</u> ,Shinichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi
2P4D044	Preparation of peptide-chlorophyll conjugates for the development of pH- responsive photosensitizers <u>Miyu Nagatani</u> ,Masahiro Higuchi,Hitoshi Tamiaki,Shogo Matsubara

Thu. May 26

Presentation Time <14:30~15:30>
Online Room PosterP1

2P1E001	Synthesis of Polynorbornenes by Ring-Opening Metathesis Polymerization and Terminal Functionalization of the Formed Polymers with Platinum-Acetylide Complexes <u>Shoichiro Uchiyama</u> , Taichi Sotani, Hiromitsu Sogawa, Fumio Sanda
2P1E002	Synthesis of optically active polyacetylenes by cyclopolymerization of α, ω -heptadiyne derivatives Ryo Nishimoto, Hiromitsu Sogawa, Fumio Sanda
2P1E003	Terminal functionalization and coupling reaction of polynorbornene with platinum acetylide complex Naoki Shimada , Shoichiro Uchiyama, Taichi Sotani, Hiromitsu Sogawa, Fumio Sanda
2P1E004	Ring-opening metathesis (co)polymerization of the ester-functionalized polycyclic cyclobutene derivatives <u>Yuta Asano</u> ,Shin-ichi Matsuoka,Masato Suzuki
2P1E005	Synthesis of poly[(lactic acid)-alt-(ethylene glycol)] by ring-opening polymerization of 3-methyl-1,4-dioxan-2-one Kohei Yamamoto,Nobuyoshi Nomura

2P1E006	Synthesis of stereoselective poly(lactic acid) from cyclic monomer consisting of racemic lactic acid and acetone <u>Yusuke Yagi</u> ,Kazuho Sakai,Nobuyoshi Nomura
2P1E007	Nonstoichiometric Polycondensation by Direct Arylation Reaction <u>Lisa TAKIMOTO</u> ,Akihiro TAKAMOTO,Junhui CHEN,Junpei KUWABARA,Takaki KANBARA
2P1E008	Controlled Copolymerization by Metal Complexes [92] Reaction Rate of Alternating Copolymerization of Carbon Dioxide with Epoxides Having Various Cyclic Side Chains and Thermal Properties of The Thus-Produced Copolymer <u>Ai Fuwa</u> , Minayo Osanai, Masayoshi Honda, Hiroshi Sugimoto
	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS
2P1E010	Development of polybenzoxazole - silica hybrid membranes for gas separation Rena Kitagawa,Tomoyuki Suzuki
2P1E011	Porous molecular crystal abruptly releasing humid air upon light irradiation Kentaro Maejima, Hiroshi Yamagishi, Ken Albrecht, Yohei Takeda, Yuka Ikemoto, Heishun Zen, Yohei Yamamoto
2P1E012	Porous organic salts based on charge-assisted hydrogen bond networks of disulfonic acids and amines and modification of pore surface Miki Naruoka, Kohei Okubo, Kouki Oka, Norimitsu Tohnai
2P1E013	Fabrication and gas permeation property of gas separation membrane including nanofiber framework <u>Kaito Udo</u> ,Masafumi Yamato,Hiroyoshi Kawakami
2P1E014	Synthesis of Cellulose Acetate Network Using Crownether Crosslinker and Its Molecular Recognition Ability <u>Yusuke Murakami</u> ,Kenjirou Onimura,Kazuhiro Yamabuki
2P1E015	A Study on Molecular Structure and Water Content of Reverse Osmosis Membranes <u>Yuto Ozeki</u> ,Fumiya Hirosawa,Hayato Higuchi,Masaya Miyagawa,Hiromitsu Takaba
2P1E016	Phenylacrylamide oligomers with completely defined steric structure prepared by radical polymerization <u>Hinako Iwamoto</u> ,Satoki Fukuda,Sotaro Akashi,Yusuke Saito,Masanori Nagao,Yu Hoshino,Yoshiko Miura
2P1E017	Identification of Microstructural Alterations on Polymer Backbones by MOFs <u>Daichi Koga</u> ,Nobuhiko Hosono,Takashi Uemura
2P1E018	Iminoboronate-functionalized dendrimers with saccharide recognition ability <u>Akira Matsumoto</u> ,Tsuyoshi Minami
2P1E019	Preparation of novel chiral silica using polymers with polyhedral oligomeric silsesquioxane (POSS) side chain. <u>Naoki Kurono</u> ,Satoshi Kometani,Yoshinobu Nakamura,Shuji Fujii,Tomoyasu Hirai
2P1E020	Synthesis of Polyurethane Covalent Organic Frameworks and Their Application as Ligands for Catalysis <u>Masayoshi Bando</u> , Wentao Zhu, Zhiyi Song, Naofumi Naga, Mayumi Nishida, Tamaki Nakano

Online Room PosterP2

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

2P2E026 Dynamics of polymer chains and water within the DN-polymers

	<u>Taiki Tominaga</u> , Takeshi Yamada
2P2E027	Network structures of biocompatible hydrogels revealed by probe diffusion dynamic light scattering Keita Namba , Takuto Hirayama, Takuma Kureha
2P2E028	Control of film thickness of hollow spherical bacterial cellulose gel aimed at stable encapsulation without leakage <u>Hiroki Saito</u> ,Toru Hoshi,Takao Aoyagi
2P2E029	Relationship between structural flexibility of Hydrogen Bonds and Mechanical Properties of Crosslinked Polymers <u>Rena Tajima</u> ,Shintaro Nakagawa,Wataru Nakao,Naoko Yoshie
2P2E030	The research on the thermaldynamic behavior of thermal-switching hydrogels <u>Dong Shi</u> ,Yuki Inoue,Takayuki Nonoyama,Jian Ping Gong
2P2E031	Properties of thermosetting-resins obtained from bismaleimide (BMI) derivatives and poly(silarylenesiloxane) ones with different content of allyl moiety <u>Tsubasa Onoue</u> ,Kako Oshima,Hina Shishido,Tsukasa Ichikawa,Nobukatsu
	Nemoto, Yuki Hakamata, Kazuto Umezu
2P2E032	Study of intermolecular hydrogen bonds of carrageenan by Raman spectroscopy <u>Tomoaki Segawa</u> , Harumi Sato
2P2E033	Influence of hard segment contents on mechanical properties and internal structural changes of polyurethane adhesives <u>Kakeru Obayashi</u> ,Chao-Hung Cheng,Rasha Bayomi,Atsushi Takahara,Ken Kojio
2P2E034	Nanoscale Direct Observation of Network Rupture in Hydrogel using Mechanoradical Polymerization <u>Masahiro Yoshida</u> ,Ryuji Kiyama,Jian ping Gong
2P2E035	Creation of tough and anisotropic hydrogels utilizing mesoscale structure of natural products Shou Ohmura , Tasuku Nakajima, Jian Ping GONG
	D. BIOPOLYMERS AND BIORELATED POLYMERS
2P2E037	Zwitterionic arginine methacrylamide for mRNA delivery carrier <u>Naoki Taguchi</u> ,Akihisa Otaka,Yoshiaki Hirano,Tetsuji Yamaoka
2P2E038	Molecular Design of Polyaspartamide Derivatives with Alicyclic Moieties for Systemic mRNA Delivery <u>Jongmin Yum</u> ,Beob Soo Kim,Mitsuru Naito,Hyun Jin Kim,Kanjiro Miyata
2P2E039	Synthesis of well-defined branched phospholipid polymers for nucleic acid delivery <u>Yuta Yoshizaki</u> ,Tomohiro Konno
2P2E040	Bioactivity evaluation of polysaccharide oligonucleotide complexes that deliver two antisense oligonucleotides at once. <u>Yuki Hata</u> ,Sumiya Kazuki,Hiroto Izumi,Kazuo Sakurai
2P2E041	Development of DDS utilizing dendrimer type DNA origami nanostructure Yuki MINAMIDE,Yuki MANO,Haruki TANAKA, <u>Akinori KUZUYA</u>
2P2E042	Design of Protein Capsules Capable of Encapsulating Guest Proteins and Evaluation of Cytosolic Delivery of guest proteins by the aid of Antibody Modification Kousuke Takahashi, Toshihisa Mizuno, Taiki Nishiyama
2P2E043	Peptide lipid that is responsive to tyrosine kinase for induction of apoptosis Natsumi Shimizu, Sayuki Kanemitsu, Tomoko Yashiro, Kenta Morita, Takashi Aoi, Tatsuo Maruyama

2P2E044 Induction of cellular senescence in cancer cells using an epigenetic control carrier

<u>Haruka Mitome</u>,Shuntaro Kimura,Kiyoshi Sato,Hiroyoshi Kawakami

Fri. May 27

Presentation Time <9:30~10:30> Online Room PosterP1

3P1A001	Water-induced dehydration of boratrane methacrylate-styrene random copolymers based on Lewis adduct-dissociating hydrolysis of boratrane Akira Takahashi, Masahiro Yamanishi, Atsushi Kameyama
3P1A002	Synthesis of functional polymer materials via radiation-induced graft polymerization and multi-component reactions Kiho Matsubara, Masaaki Omichi, Noriaki Seko, Ryohei Kakuchi
3P1A003	Synthesis of Fluorine Containing Polystyrene by Photoinduced Perfluoroalkylation <u>Ai Yamaguchi</u> ,Tadashi Kanbara,Tomoko Yajima
3P1A004	Synthesis of Reactive Poly(phenylene sulfide)s and Their Crosslinking with Difunctionalized-POSS through Click Reaction <u>Tomohiro Miura</u> , Seigo Watanabe, Kenichi Oyaizu
3P1A005	Amino Group Modification of Poly(vinyl alcohol) Side Chains and Evaluation of pH and Temperature Responsive <u>Ryo Fujiwara</u> ,Ryo Kagitani,Miyuki Oshimura,Tomohiro Hirano,Koichi Ute
3P1A006	Synthesis of Chemical Gels Containing Poly(crownether) and Conversion to Physical Gels by Stimulation <u>Hana ITO</u> ,Kenjiro Onimura,Kazuhiro YAMABUKI
3P1A007	DFT Study on Side Chain Degradation Reaction Mechanism of Perfluorosulfonic Acid Ionomers <u>Makoto Yamaguchi</u>
3P1A008	Investigation on induction of function based on dynamic exchange reaction between polypeptide side chains and the photo-cleavable target molecule Shun Takada , Toshiyuki Oyama
	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS
3P1A010	Higher-order liquid crystal phase induced on the surface of Azobenzene polymer film <u>Chikara Kawakami</u> ,Keisuke Takishima,Mitsuo Hara,Shusaku Nagano,Takahiro Seki
3P1A011	Mechano-Optical Properties of Chiral-Liquid-Crystalline Elastomers with Precisely Controlled Molecular Orientation <u>Yuki Shikata</u> , Maki Yanagihara, Kyohei Hisano, Osamu Tsutsumi
3P1A012	Homeotropic alignment of nematic liquid crystals induced by dissolving side- chain liquid crystalline copolyethers. <u>Kouki Itou</u> ,Osamu Haba,Yuichi Momoi
3P1A013	Preparation of side-chain liquid crystalline polymer films via RAFT photopolymerization initiating from free surface <u>Daisuke Furuta</u> , Mitsuo Hara, Takahiro Seki
3P1A014	Bending motion induced by near-infrared laser light irradiation of liquid crystalline elastomer containing narrow bandgap polymers Takumi Shimono, Haoxuan Guo, Hiroyuki Aota, Takahiro Yamamoto, Hirosato Monobe

3P1AU15	magnetorneological effect of magnetic elastomers with highly embedded magnetic particles <u>Rio Urano, Mika Kawai, Tetsu Mitsumata</u>
3P1A016	Design of elastomer with the acrylate polymer bearing multiple vinyl groups as polymerizable units at the side groups and unique elongation behavior <u>Tatsuya Aoyama</u> , Mikihiro Hayashi
3P1A017	Evaluation for the chain structure of magnetic particles in magnetic elastomers by X-ray computed tomography Kejun Chen , Yoshihiro Takeda, Takayuki Maruyama, Mika Kawai, Tetsu Mitsumata
3P1A018	Soft material with phase separation-induced glass transition <u>Mayu WATANABE</u> ,Ryuji KIYAMA,Dong SHI,Takayuki NONOYAMA,Jian Ping GONG
3P1A019	Mechanooptical effects of cholesteric liquid crystal elastomers in various deformation modes <u>Saki Mori</u> ,Kenji Urayama
3P1A020	Gas-Responsive Silicone Elastomers Toughened by CO2 <u>Hanako Yoneda</u> ,Yohei Miwa,Takehito Ohya,Hayato Nakamura,Shoichi Kutsumizu
Online Roo	om PosterP2
	B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES
3P2A026	Revisiting the second virial coefficient of ring polymers in the Θ state: Effects of local chain conformation Makiko Hirota, <u>Daichi Ida</u>
3P2A027	Side-chain-dependence of conformation of poly(vinyl alcohol alkylcarbamate)s in solution Shodai Miura, <u>Akiyuki Ryoki</u>
3P2A028	Dilute Solution Properties of Quaternarized Poly(2-vinyl pyridine) Tomoya Chosa, <u>Yo Nakamura</u>
3P2A029	Tailoring the Viscosity of Ionic-Liquid-Based Polyelectrolyte Solutions Based on Manning's Counterion Condensation Model Atsushi Matsumoto , Hiroto Osada, Ryosuke Ukai, Shinji Sugihara, Yasushi Maeda
3P2A030	Reentrant (Re-disolve) Behavior of Bovine Serum Albumin Depending on the Concentration of Multi-Valent Cations <u>Yusuke Sanada</u> , Takafumi Ise, Ryutaro Inoue, Yukiteru Katsumoto
3P2A031	Denaturation and Renaturation of Xanthan Induced ByAdding Urea Yudai Yamaguchi,Kazuto Yoshiba, <u>Yasuhiro Matsuda</u>
	D. BIOPOLYMERS AND BIORELATED POLYMERS
3P2A033	Preparation of amphiphilic glycopolymer via post-polymerization modification <u>Tomohiro Fukuda</u> , Yukari Iida
3P2A034	Development of a hyaluronic acid -polymeric micelles hybrid gel for the application of tissue-adhesive materials <u>Miki Tatsuma</u> ,Yoshihiko Murakami
3P2A035	Development of chitosans-polymeric micelles hybrid gel sheets for wound dressing Ryosuke Wakao, Yoshihiko Murakami
3P2A036	Studies on density-dependence of glycan ligands in Siglecs interaction <u>Risa Naka</u> , Ayaka Tateishi, Keiji Numata, Masashi Ohmae

3P2A037	Anomeric Modifications Exploiting 1,2-Anhydrosugar Generated in situ Misaki Suzuki,Noriyuki Nakazima,Masahiro Hamada,Yasuhito Koyama
3P2A038	Preparation of temperature-responsive injectable polymer that can be decomposed by photo-irradiation Itsuki Kasatani , Ayaka Asida, Nobuo Murase, Yuichi Ohya
3P2A039	Design of beta-hairpin peptide for peptide hydrogel scaffold Shota Yamauchi, Takayuki Miyabe, Yoshiaki Hirano
3P2A040	Preparation of alginic acid/poly(2-oxazoline) hybrid gels and cell-preservation <u>Makoto Tsurube</u> ,Akinori Takasu
3P2A041	Design of Enzymatically Degradable Hydrogels with Temporally Modulated Mechanics to Regulate the Differentiation of Stem Cell Fate Riho Tanimoto, Mitsuhiro Ebara, Koichiro Uto
3P2A042	Tissue engineering technology for peripheral nerve regeneration using injectable and biodegradable PLGA-PEG-PLGA/LAPONITE nanocomposite gel Naohiro Yoshinobu, Kimika Ono, Koji Nagahama
3P2A043	Preparation and characterization of gelatin gels with inorganic surface layer for bone defect treatment Syuuhei Komatsu , Yusuke Kadokura, Akihiko Kikuchi
3P2A044	Design and function of nanogel cross-linked microgels for construction of cell hybrid spheroids <u>Jiarui Song</u> ,Kazunari Akiyoshi,Yoshihiro Sasaki,Shinichi Sawada
3P2A045	Development of gamma-ray cross-linked gelatin hydrogel for artificial blood vessels equipped controlled drug release property <u>Mayu Ueno</u> ,Satoshi Ohno,Shota Ishida,Daisuke Miyazaki,Yuto Honda,Makoto Matsui,Takahiro Nomoto,Takashi Endo,Toshio Takayama,Tomoko Oyama,Mitsumasa Taguchi,Nobuhiro Nishiyama,Yutaka Miura
3P2A046	Design of biodegradable inks for bio 3D printing and application to regenerative medicine scaffold Ryo Takahashi, Yoshihiro Sasaki, Shunya Hayashi, Shin-ichi Sawada, Kazunari Akiyoshi

Fri. May 27Presentation Time <10:30~11:30> Online Room PosterP3

3P3B001	Synthesis and Functionalization of Active Ester Modified Cyclosiloxane <u>Tomoki Sato</u> , Huie Zhu, Masaya Mitsuishi
3P3B002	Unique Polymerization of α,β-Unsaturated Acylsilane with Silyl Migration <u>Tomoki Yoshimatsu</u> ,Ryo Sato,Shin-ichi Matsuoka,Koji Takagi,Masato Suzuki
3P3B003	Development of Radical Polymerization System Using Stable Anthracene Radicals in Clay Interlayers <u>Yugo Okada</u> ,Kyohei Hisano,Fuminao Kishimoto,Osamu Tsutsumi
3P3B004	Precision Synthesis of Mainchain Rigid Polymers by Click Living Polymerization of Conjugated AB Monomers <u>Seiichiro Uchida</u> ,Tomohiro Kubo,Kotaro Satoh
3P3B005	Click Living Polymerization of Alkyne and Azide-Terminated Heterotelechelic Oligomers <u>Yasuaki Kobayashi</u> , Tomohiro Kubo, Kotaro Satoh

3P3B006 Synthesis of chiral syndiotactic styrene trimers Sorachi Saito, Yuma Tanaka, Naoki Fukaya, Kazutada Ikeuchi, Keiji Tanino, Kenta Kokado, Kazuki Sada 3P3B007 Synthesis and Conformational Analysis of Photoresponsive Optically Active Platinum Complexes Bearing Azobenzene Moieties Kohei Iwata, Shinichi Iba, Hiromitsu Sogawa, Fumio Sanda C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS 3P3B010 The mechanical properties like soft biological tissues of Poly(2-methoxyethyl acrylate)-silica composite elastomer Daiki Miyake, Fumio Asai, Mitsuo Hara, Takahiro Seki, Yukikazu Takeoka 3P3B011 Control of mechanical properties of thermoplastic PDMS elastomers by charge transfer interactions with additives Ryosuke Hamamoto, Shogo Amemori, Yasuhiro Sigeta, Takuya Kurihara, Tomonori Ida, Motohiro Mizuno Design of Deformable Soft Robot with Auxetic Structure Based on 3P3B012 Pneumatic Control Yukihide Tashiro, Chihiro Yamada, Yuki Honda, Hiroshi Endo 3P3B013 Preparation of Photoresponsive Films with Controllable Surface Properties and Stem Cell Behavior on Their Surfaces Neiro Kodama, Takafumi Noguchi, Misato Higashino, Akifumi Kawamura, Takashi Miyata 3P3B014 Ultrafast self-healing elastomer crosslinked via segregation of fluoroalkyl side chains Yohei Miwa, Taro Udagawa, Shoichi Kutsumizu 3P3B015 Analysis of Swelling and Temperature-responsiveness of Hydrogels Taichi Nishi, Yuki Takahashi, Takuto Hirayama, Takuma Kureha 3P3B016 Synthesis of photoluminescent supramolecular gels derived from phenylenediamine hydrochlorides and metal sensing Kazuki Tateishi, Hiromitsu Sogawa, Fumio Sanda 3P3B017 Stabilization of hydrogen-bonded network structures of supramolecular gels using photodimerization Momoka Okajima, Nanako Matsuo, Kazuhiro Yabuuchi, Masaya Moriyama Synthesis and physical properties of gels with a homogeneous network 3P3B018 structure of biocompatible polymers Yuka Hasegawa, Yuria Otsuka, Xiang Li, Masashi Ohira, Taiki Hoshino, Masaru Tanaka, Shinnosuke Nishimura, Mitsuo Hara, Takahiro Seki, Yukikazu Takeoka 3P3B019 Design of gels with crosslinked domain structure exhibiting thermoresponsive simultaneous changes in mechanical and fluorescent properties. Takahiro Okuno,Shohei Ida,Kazumasa Suzuki,Hiroki Takeshita,Masatoshi Oyama, Keiji Nakajima, Shokyoku Kanaoka 3P3B020 Material with brain-like long-term dynamic memory by using LCST-type phase separation gel Yuki INOUE, Dong SHI, Takayuki NONOYAMA, Jian Ping GONG

Online Room PosterP4

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

3P4B026 Solution property on the LCST-type phase separation of Poly(2-isopropyl-2-oxazoline) in ionic liquids

Mai Ueda, Yuji Kamiyama, Takeshi Ueki, Yukiteru Katsumoto, Keisuke
Watanabe

3P4B027	Single chain structure of poly(<i>N-tert</i> -butylacrylamide)-based amphiphilic alternating multiblock copolymers in solution and relationship of block amphiphile <u>Mizuki Hirano</u> , Yusuke Sanada, Yukiteru Katsumoto
3P4B028	Synthesis of New Thermoresponsive Polymers Possessing the Dense 1,2,3- Triazole Backbone <u>Koji Okuno</u> ,Takuya Arisawa,Yuri Kamon,Masaki Nakahata,Akihito Hashidzume
3P4B029	Solution properties of poly(ethylene oxide)-poly(2-methoxyethyl acrylate) alternating multiblock copolymer in water <u>Narumi Uematsu</u> ,Yukiteru Katsumoto,Yusuke Sanada,Keisuke Watanabe
3P4B030	Phase Separation Kinetics in the Aqueous Solution of Poly(N-isopropylacrylamide) <u>Takahiro Sato</u> ,Jiayun Han
3P4B031	Study on Viscoelasticity of Single Polymer Chains by Noise Analysis Nanofishing Using Atomic Force Microscopy <u>Masato Mori</u> ,Xiaobin Liang,Ken Nakajima
	D. BIOPOLYMERS AND BIORELATED POLYMERS
3P4B033	Design of nucleic acid-modified polysaccharides and evaluation of the association behavior <u>Hono Inoue</u> ,Shin-ichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi
3P4B034	Formation Behavior of Amylose-Polyester Inclusion Complexes by Vine- Twining Polymerization <u>Masaaki Iwamoto</u> ,Ryuta Watanabe,Kazuya Yamamoto,Jun-ichi Kadokawa
3P4B035	Development of bio-adhesive with guanidinylated chitosans <u>Hironori Izawa</u> ,Sasuke Matsuzaki,Minoru Morimoto,Shinsuke Ifuku
3P4B036	Design and Function amphiphilic copolymers for presentation of biomolecules on cell membranes <u>Yudai Sadanami</u> ,Shin-ichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi,Ryosuke Mizuta
3P4B037	Synthesis and aggregation behavior of complex-type sialooligosaccharyl peptides conjugated with oligophenylalanine Sotaro Tsuji , Tomonari Tanaka
3P4B038	Sterilization using high hydrostatic pressure for decellularized grafts <u>Akihisa Otaka</u> ,Tetsuji Yamaoka
3P4B039	Development of bioactive polymer-modified column for separation and separation of specific cells. <u>Moe Kato</u> ,Yuki Usui,Takahiro Kishioka,Taito Nishino,Tadashi Nakaji-Hirabayashi
3P4B040	Development of tissue engineering materials for lymphatic vessel regeneration <u>Tatsuya Dode</u> ,Kimika Ono,kouzi Nagahama
3P4B041	Analysis of bone formation ability of polymer-inorganic hybrid capsules capable of loading drugs. <u>Takurou Aikawa</u> ,Syuuhei Komatsu,Taka-Aki Asoh,Akihiko Kikuchi
3P4B042	Development of Photocrosslinkable Polymers as Scaffolds for Construction of Artificial Cartilage Tissue Ryoma Takagi, Chiaki Yoshikawa, Tadashi Nakaji-Hirabayashi
3P4B043	Development of glucose controlled releasable microcapsule and application for 3D cell culture <u>Tomoya Matsuo</u> ,Daisuke Tomioka,Michiya Matsusaki
3P4B044	Development of the photo-responsive cell culture materials from the novel

	biomaterial, shellac derivatives <u>Yurino Sunakawa</u> ,Mai Kondo,Toshihisa Mizuno
3P4B045	Thermoresponsive block copolymer brush for umbilical cord-derived mesenchymal stem cell separation Kenichi Nagase, Ayumu Ota, Hideko Kanazawa
3P4B046	Restoration of mitochondrial quality control mechanism in senescent stem cells by mitophagy-inducing nanocarriers Kohei Shibusawa,Koki Mino,Keisuke Ashiba,Kiyoshi Sato,Hiroyosi Kawakami

Fri. May 27

Presentation Time <12:30~13:30>
Online Room PosterP1

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

3P1C001	Design and Characterization of Stimulus-responsive Supramolecular Materials with Interpenetrating Rotaxane Dimers Incorporated into the Polymer Main-chain Risako KAMOTO, Kenjiro ONIMURA, Kazuhiro YAMABUKI
3P1C002	Solvent solubility modification of polyrotaxane composed of Pillar[5]arene and PEG <u>Yuhei Kobayashi</u> ,Shota Ando,Yokoyama Hideaki,Ito Kohzo,Tomoki Ogoshi,Seo Akishige,Takeuchi Hiromitsu
3P1C003	Synthesis and mechanical properties of poly(butyl acrylate) network crosslinked with rotaxane structure Yamato Ebii , Yoshinobu Mato, Takuya Isono, Takuya Yamamoto, Kenji Tajima, Toshifumi Satoh
3P1C004	Precise synthesis of poly lactic acid/poly ethylene glycol block copolymer with acid-base catalyst Shiori Yano , Joji Kadota, Akinori Okada, Hiroshi Hirano
3P1C005	Temperature and pH responsibility of poly(alkyl methacrylate)s bearing with both N,N-dimethyl amino group and oxyethylene glycol unit <u>Hinata Takazawa</u> ,Kenji Sugiyama
3P1C006	Self-assembly behavior of a tripodal triptycene-terminated polyethylene glycol in water <u>Yugen Chen</u> ,Fumutaka Ishiwari,Tomoya Fukui,Takashi Kajitani,Takanori Fukushima
3P1C007	Synthesis of Sequential ABC-type Triblock Copolymers Containing Poly(3-hexylthiophene) Segments <u>Souki Ito</u> ,Shin Inagaki,Tomoya Higashihara
	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

3P1C009	Flexible Sensor Base on Piezoionic Effect <u>Tian Liang</u> , Takaya Furuyama, Hidenori Okuzaki
3P1C010	Electrochemical Synthesis of Soluble Self-doped PEDOT Yuxin Jing, Hidenori Okuzaki
3P1C011	Soluble Self-doped PEDOT: Effect of Polymerization Temperature Kenshin Ishizaki, Yuxin Jing, Hidenori Okuzaki
3P1C012	Preparation of conducting fullerene gel composed of self-doped conducting polymer and evaluation of its electrical property <u>Masahiro WATANABE</u> , Hiroshi SAITO, Tetsu MITSUMATA, Norio TSUBOKAWA, Takeshi YAMAUCHI, Hirofumi MIAKE, Yuichi YANO, Keitaro MATSUMARU

3P1C013	Polymerization of 2,6-bis(4-acetoxy-3,5-di-tert-butylphenyl)benzo[1,2-b:5,4-b']difuran derivatives and magnetic property of the corresponding phenoxy radicals
	haruka Miura, Masahiro Teraguchi, Toshiki Aoki, <u>Takashi Kaneko</u>
3P1C014	Development of thermosetting electrically conductive resin using polyaniline penetrated by monomer. <u>Motoki Sakagami</u> ,Katsuya Yaginuma,Kohei Takahashi,Teruya Goto,Tatsuhiro Takahashi
3P1C015	Photoresponsive properties of supramolecular gels based on multicomponent gelators containing coumarin moieties <u>Shunki Sasamoto</u> , Kazuhiro Yabuuchi, Masaya Moriyama
3P1C016	Supramolecular hydrogel Formation Between Polyamines and Polyglycerol Dendrimers <u>Shiho Kawasaki</u> ,Tooru Ooya
3P1C017	Gelation of Hyperbranch Glycerol-Modified Polyrotaxanes via Hydrogen Bonding and Those Bioerosion <u>Kiyotaka Tanaka</u> ,Tooru Ooya
3P1C018	Preparation of hydrogels by simultaneous dual polymerization of radical polymerization and polyaddition Ryo Kawatani, Yasuhiro Kohsaka
3P1C019	Synthesis of slide-ring hydrogels using photodimerization of cinnamic acid for cross-linking <u>Takahiro Fujita</u> ,Masatoshi Kidowaki
3P1C020	Synthesis of slide-ring hydrogels crosslinked by Diels-Alder reaction and their application to self-healing materials <u>Tsuyoshi Takigawa</u> ,Masatoshi Kidowaki
3P1C021	Unusual dissolution of PEG-chains in concentrated LiFSA/ionic liquid electrolytes: Application to Li-ion battery gel electrolytes Namie Ikeda, Kenta Fujii
3P1C022	Synthesis and characterization of the zwitterionic polymer nanogel for implantable biofuel cell <u>takehiro sato,</u> yixuan huang,tsukuru masuda,madoka takai

Online Room PosterP2

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

3P2C026	Analysis of Viscoelastic Effect on Crack Propagation of Soft Materials <u>Ayano Kozono</u> ,Thanh-Tam Mai,Kenji Urayama
3P2C027	Study on the temperature dependence of elastic modulus of single polymer chains by nanofishing Shunichi Nomura ,Xiaobin Liang,Ken Nakajima
3P2C028	Electrophoretic Mobility of Concentrated Microparticle Suspensions Examined by Electrophoretic Ultrasound Scattering Techniques <u>Mao Yamada</u> , Tomohisa Norisuye
3P2C029	Elasticity of Glassy- and Rubbery- Microparticles by Ultrasound Scattering Techniqes Kenichiro Ishimoto , Kazuto Tsuji, Tomohisa Norisuye
3P2C030	Local Motion Analysis of Methylcellulose in Water using Quartz Crystal Microbalance <u>Kenji Yamaoka</u> ,Toshihisa Fujii,Naoya Torikai
3P2C031	Preparation and characterization of cubic liquid crystal phase at room temperature by self-assembly of metal complex <u>Nao Komiyama</u> , Yohei Miwa, Shoichi Kutsumizu, Keiki Kishikawa, Michinari Kohri

31	P2C032	Chiroptical properties of ethyl cellulose-based lyotropics composed of left- and right-handed cholesteric liquid crystals <u>Yuuki Sato</u> ,Kazuki Sugimura,Hiroshi Kamitakahara	
31	P2C033	Construction and Order Formation of Liquid Crystalline Polymers Using Non-Covalent Interactions Shougo Nakagawa,Ayaka Mitsutake,Masanori Nata,Seiji Ujiie	
		E. POLYMERS AND ENVIRONMENT	
31	P2C035	Physical property and biodegradability evaluation of microbeads prepared from microbial polyester Natsumi Hyodo, Hongyi Gan, Satoshi Kimura, Ken-ichi Kasuya, Tadahisa Iwata	
31	P2C036	Synthesis of hydrophilic aliphatic polyester via enzyme-catalyzed polymerization of N-protected monomer Yuya Oyama , Naruki Kurokawa, Atsushi Hotta	
31	P2C037	Fabrication of multilayer films composed of Polysaccharide ester derivatives and P(3HB-co3HHx) and the biodegradability <u>Jobu Tateiwa</u> ,Satoshi Kimura,Tadahisa Iwata	
31	P2C038	Marine Biodegradable Effects of Polyrotaxane Materials and Future Developments <u>Shota Ando</u> ,Kohzo Ito	
31	P2C039	Effects of Particle Size of Biodegradable Polymer on Biodegradation in Seawater <u>Shodai Hino,</u> Naoko Yamano,Norioki Kawasaki,Tsutomu Nakamura,Atsuyoshi Nakayama	
31	P2C040	Development of biodegradable plastic composite materials using general- purpose plastics <u>Kensuke Miyazaki</u> ,Ryouya Masaki,Takashi Yoshida	
31	P2C041	Preparation, properties and structural evaluation of melt-spun fibers of a-1,3-glucan short-chain and long-chain mixed esters <u>Yutaro Uenoyama</u> ,Satoshi Kimura,Hongyi Gan,Tadahisa Iwata	
31	P2C042	Synthesis and Biodegradability of Tartaric acid-based Poly(ester-thioether)s <u>Akinori Takasu</u> ,Kaho Kataoka	
31	P2C043	Synthesis and Biodegradability of Unsaturated Polyesters by Diastereoselective Thiol-Yne Reaction <u>Katsuhisa Yano</u> , Akinori Takasu	
31	P2C044	Study on interaction between itaconic acid-based bionylons and water <u>Hongong YIN</u> , Huaiyu Wang, Asif Ali Mohammed, Kenji Takada, Tatsuo Kaneko	
Fri. May 27 Presentation Time <13:30~14:30> Online Room PosterP3			
	A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS		
31	P3D001	Design of Catenanes by Ring-Closing without Highly Dilutions <u>Hirotake Yato</u> , Akinori Takasu, Masahiro Higuchi	
31	P3D002	Precise synthesis of degradable polymers by living cationic polymerization inspired by the degradation mechanism of enzymes Akihisa Numao, Arihiro Kanazawa, Sadahito Aoshima	
31	P3D003	Precise synthesis via living cationic polymerization and then thermosensitive behavior of alternating copolymers consisting of ionic liquid moiety- containing vinyl ether and conjugated aldehydes	

	Masahiro Ueda,Daichi Yokota,Arihiro Kanazawa,Sadahito Aoshima
3P3D004	Unraveling Properties of Graphene Nanoribbons Using Metal-Organic
	Frameworks <u>Masayuki Hasegawa</u> ,Takashi Kitao,Takashi Uemura
3P3D005	Synthesis of poly(3-hexylthiophene)-block-poly(2-vinylpyridine) oriented optical transistor memory device materials <u>Hiroya Shimizu</u> , Higashihara Tomoya, shin Inagaki
3P3D006	Electrochemical Polymerization of Conductive Polymer in Biomaterials <u>Kyoka Komaba</u> ,Naoto Eguchi,Masanori Toyofuku,Nobuhiko Nomura,Hiromasa Goto
	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS
3P3D008	Development and Characterization of Proton-Electron Conductors Using Diblock Copolymers (I) - Investigation of polymer synthesis - Nanami Tanaka, Masahiro Rikukawa, Yuko Takeoka, Masahiro Fujita
3P3D009	Development of Radical Quenchers for Polymer Electrolyte Fuel Cells (I) - Evaluation of Fullerenols- <u>Naoto Oniki</u> ,Masahiro Rikukawa,yuko Takeoka,Masahiro Fujita
3P3D010	Organic Stochastic Resonant Devices Using Pi-Conjugated Polymers as Noise Generators <u>Aki Yan</u> ,Naoki Asakawa
3P3D011	Stochastic capacitor using self-organized nano-thin film based on binary mixture of semicrystalline polymer/small-molecular liquid crystal Yuya Enomoto, Naoki Asakawa
3P3D012	Preparation and Electrochemical Properties of Mixed-Conducting Polymer Nanoparticle Films <u>Katsumi ABE</u> ,Shuhei KINDAICHI,Shunsuke YAMAMOTO,Masaya MITSUISHI
3P3D013	Structures and Device Properties of Conjugated Polymer Films Blended with Temperature Responsive Polymer Shuhei Kindaichi, Shunsuke Yamamoto, Yasuo Okajima, Masaya Mistuishi
3P3D014	A red-emissive rotaxane-based supramolecular mechanophore based on FRET mechanism Tatsuya Muramatsu, Yoshimitsu Sagara
3P3D015	Evaluation of the stimuli-responsive gel using polysaccharides Koumei Harajiri
3P3D016	Selective separation of organic halogen compounds with hydrogel adsorbents <u>Takahide Takenami</u> , Naoki Suda, Takuma Kureha
3P3D017	Fabrication and electrical properties of conductive fibers composed of Self-doped conducting polymer Kohei ITAYA, Hiroshi SAITO, Tetsu MITSUMATA, Norio TSUBOKAWA, Takeshi YAMAUCHI, Hirofumi MIYAKE, Yuichi YANO, Keitaro MARUMATSU
3P3D018	Electrochemical characterization of self-oscillating polymer brushes for active control of oscillation behavior <u>Keita Terui</u> , Takafumi Enomoto, Shunsuke Yagi, Aya Akimoto, Ryo Yoshida
3P3D019	Preparation and characterization of hydrogel microellipsoids <u>Takahisa Kawamoto</u> ,Kohei Inui,Haruka Minato,Daisuke Suzuki
3P3D020	Dual pH/temperature stimuli-responsive properties of anionic terminal dendrimers with different bound numbers of phenylalanine Yunshen Fu,Chie Kojima
3P3D021	Thermo-responsiveness of phenol resins in mixed organic solvents Natsuki Inaba, Miwa Kubota, Kazuki Sada

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

3P4D026	"Negative" Interfacial Energy at Dynamic Polymer Brush Interface <u>Masayuki Saito</u> ,Norifumi Yamada,Kohzo Ito,Hideaki Yokoyama
3P4D027	Cationic polymer brushes that form spontaneously at air interface <u>Gota Kawano</u> ,Norifumi Yamada,Kohzo Ito,Hideaki Yokoyama
3P4D028	Observation of Polymer Films Surface Properties Modified by Plasma Treatment under Air Environment <u>Shintaro Yasuda</u> ,Yoshihisa Fujii,Naoya Torikai
3P4D029	Thermal Stability and Interfacial Structure of a Polystyrene Thin Film on the Adsorbed Layer of Polymer Blend with Different Molecular Weights <u>Motoyuki Ozaki</u> , Yoshihisa Fujii, Hideki Seto, Naoya Torikai
3P4D030	Surface Morphological Observation of (Bottlebrush Polystyrene/Linear Polystyrene) Blend Film <u>Anri Nishimura</u> ,Yoshihiro Yamauchi,Sadaki Samitsu,Yoshihisa Fujii,Naoya Torikai
3P4D031	Study on interaction between hydrophilic concentrated polymer brush and three state of water Masahiro Saito,Ken Tamamoto,Keita Sakakibara,Yuji Kinose,Yoshinobu Tsujii
3P4D032	Understanding and Control of Liquid-Crystal Anchoring Property at Brush- like Polymer Interface <u>Yoshiro Takamura</u> , Yuji Kinose, Yoshinobu Tsujii
3P4D033	Molecular Dynamics Study of Water Behavior in Zwitterionic Polymer Brush-Water Interface <u>Susumu Fujiwara</u> ,Yuya Fujinaga,Tomoko Mizuguchi
	E. POLYMERS AND ENVIRONMENT
3P4D035	Lipase-catalyzed synthesis of isocyanate-free polyurethanes and their self-healing properties (I) - Investigation of synthesis method using lipase catalyst-
	Yukiho Sonoda, Masahiro Fujita, Yuko Takeoka, Masahiro Rikukawa
3P4D036	Synthesis and Biodegradability of Poly(urethane-thioether)s via Thiol-Michael Polyaddition of Dianhydro Sugar-Based Diacrylates <u>Akinori Takasu</u> ,Suzuka Takeuchi
3P4D037	Relation between block length and 1st and 2nd carbon sources of P3HA biosynthesized by R. eutropha Takahiko Nakaoki, <u>Haruto Nakamura</u>
3P4D038	High yield of P3HB from multi-step fermentation of glycerin by R. eutropha Takahiko Nakaoki, <u>Shugo Kuratani</u>
3P4D039	Preparation and characterization of bio-based vitrimers from divanillic acid and epoxidized soybean oil Yunfan Zhang , Yukiko Enomoto, Tadahisa Iwata
3P4D040	Carbon source preferentially metabolized from biosynthesis using glycerin and sodium stearate as mixed carbon sources by R.eutropha Takahiko Nakaoki, <u>Mitsuki Nagahama</u>
3P4D041	Biosynthesis of Poly(3-hydroxybutyrate) from Vegetable Oil by R.eutropha Takahiko Nakaoki, <u>Syunya Oriuchi</u>
3P4D042	Development of High Biomass Loaded Super Engineering Plastics using Glycol Lignin <u>Haruka Kato</u> , Ayumi Kobayashi, Kohei Iritani, Thi Thi Nge, Tatsuhiko

	Yamada,Takashi Yamashita
3P4D043	Extraction of cellulose from bamboo using aqueous pyrrolidinium hydroxide solution
	<u>Deandra Ayu Putri</u> ,Elisabeth R. D. Seiler,Morgan L. Thomas,Yuko Takeoka,Masahiro Rikukawa,Masahiro Fujita
3P4D044	Development of Innovative Nanofiltration Membrane

Ryoma Miyamoto, Takanori Soya, Tomoya Yoshizaki, Masakazu Koiwa, Kouzou Takahashi

Fri. May 27

Presentation Time <14:30~15:30> Online Room PosterP1

	A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS
3P1E001	Synthesis of disubstituted polyacetylene with both liquid crystallinity and luminescence and evaluation of electromagnetic properties Kyoka Komaba, Masashi Otaki, Reiji Kumai, Shigeki Nimori, Hiromasa Goto
3P1E002	Synthesis of geometry-controlled platinum-containing polymers bearing optically active phosphine ligands <u>Takashi Horiuchi</u> ,Natsuhiro Sano,Hiromitsu Sogawa,Humio Sanda
3P1E003	Chiroptical properties of lipophilic Brønsted acid-type poly(phenylacetylene) derivatives <u>Yuki Nishikawa</u> ,Shota Sona,Daisuke Hirose,Katsuhiro Maeda
3P1E004	Synthesis of novel acrylonitrile-containing nano-objects by polymerization-induced self-assembly (PISA) <u>Yuta Osodo</u> , Chiharu Kumano, Hideharu Mori
3P1E005	Precise Synthesis of Chain-end-functionalized Polyisobutylene with 5-Bromothienyl Group and Copolymerization with π-Conjugated Monomers Shuto Yamamoto,Naoki Matsuda,Tomoya Higashihara
3P1E006	Simultaneous Synthesis of [6]- and [7]Helicenes through Alkyne Benzannulation Reactions and Their Chiroptical Properties <u>Kosuke Oki</u> ,Shoya Yamakawa,Tomoyuki Ikai,Eiji Yashima
3P1E007	Synthesis and optical properties of cyclic materials containing curved oligothiophene and acceptor aromatic Shota SUZUKI , Ryota SHIMADA, Yoshihiro OHTA, Tsutomu YOKOZAWA
3P1E008	Development of Near-Infrared Emissive Conjugated Polymers based on Boron Complexes with Two Chromophores <u>Masashi Nakamura</u> ,Masayuki Gon,Kazuo Tanaka
	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS
3P1E010	Preparation of water droplets covered with pH-responsive silica particles Ema Onodera, Shin-ichi Yusa, Syuji Fujii, Yoshinobu Nakamura
3P1E011	Development of Dual-Functional Polymer Materials with Charge-Transfer Complex for Mechanostress Detection and Self-healing. <u>Kanae Aoki</u> ,Naruki Ito,Ryota Yamanaka,Kenta Iitani,Keiichi Imato,Yuji Tsuchido,Naoya Takeda
3P1E012	Development of thermo-responsive nylons in water <u>Akari Sugano</u> ,Sorachi Saito,Natsuki Inaba,Kazuki Sada
3P1E013	Photoexpansion of biobased polyester: evaluation of the photodeformation by time-resolved measurements

Oscillating Behavior of Core-shell Type Self-oscillating Polymers with Built-

Kenji Takada, Tatsuo Kaneko

3P1E014

	in Proton Supplying Sites Takahiro Ono, <u>Takafumi Enomoto</u> ,Michika Onoda,Takeshi Ueki,Ryota Tamate,Aya M. Akimoto,Yoshida Ryo
3P1E015	Improvement of Natural Rubber Utilizing Alginic Acid <u>riku kojima</u> ,soui inata,hiromitsu sogawa,fumio sanda
3P1E016	Synthesis, mechanical property, and self-healing property of biomass poly(γ-methylcaprolactone) (PMCL) elastomers with varying amounts of hydrogen bonding Shuhei Takamura, Naruki Kurokawa, Atsushi Hotta
3P1E017	Three-Dimensional Deformation Analysis Using Chiral-Nematic Particles as a Probe Naoya Fukui, Tomoki Shigeyama, Kyohei Hisano, Osamu Tsutsumi
3P1E018	Double hydrophilic diblock copolymer produced by TERP polymerization Misato Hayashi, Shigeru Yamago, Shin-ichi Yusa
3P1E019	Supramolecular Nylon with High Mechanical Toughness And Rapid Photo-
	Responsiveness <u>Junsu PARK</u> ,Hiroki TAMURA,Akira HARADA,Hiroyasu YAMAGUCHI,Yoshinori TAKASHIMA
Online Roo	om PosterP2
	B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES
3P2E026	Observation of fluorescence probe molecule with total internal reflection fluorescence microscopy <u>Satoki Kubota</u> , Takuya Matsumoto, Ryugo Tero, Takashi Nishino
3P2E027	Molecular aggregation structure analysis of poly(dimethylsiloxane) films in a CO2 atmosphere. <u>Juko Yamada</u> ,Kakeru Obayashi,Saburo Yamamoto,Aya Fujimoto,Ken Kojio
3P2E028	Analysis of Deformation Behavior of Styrenic Thermoplastic Elastomers Using Nano-Touch Atomic Force Microscopy Airi Sato, Makiko Ito, Xiaobin Liang, Ken Nakajima
3P2E029	Study on PP/EPDM blends using nano-palpation atomic force microscope <u>Mari Hanai</u> , Makiko Ito, Xiaobin Liang, Ken Nakajima
3P2E030	Chain movements of polymer film surface observed by high-temperature insitu AFM Koki Koike, Jiro Kumaki
3P2E031	Effect of molecular weight of poly(n-butyl methacrylate)-grafted silica particles on the adhesion strength Motoyasu Kobayashi, Yuki Kodama
3P2E032	Degradation cause analysis of GFRP (Glass Fiber Reinforced Plastics) materials by nanoscale evaluation methods (TEM-EELS, AFM-IR and SPM) <u>Yoshimichi Namai, Makoto Kashihara, Shunsuke Kametani, Shuhei Fujimura, Takuya Honda, Kohta Fukui, Kazuyuki Takehira, Sawako Koga</u>
3P2E033	Study for Sub-micro structure analysis in polymer materials using Photo Thermal IR Spectroscopy <u>Hanae Kobayashi</u> ,Naoki Baden,Norio Urayama
	E. POLYMERS AND ENVIRONMENT
3P2E035	Compatibility of medium-chain length Poly (3-hydroxyalkanoate) biosynthesis and Poly(3-hydroxybutyrate) Takahiko Nakaoki, <u>Mituki Ueda</u>
3P2E036	Amphiphilic-behavior of the diblock copolymer based on biodegradable poly(butylene succinate)(PBS) and poly(2-pyrrolidone)(PA4)

3P2E037 Efficient technology for designing sustainable composites by use of materials informatics based on molecular simulation Tomio Iwasaki 3P2E038 Substituent Effects on the Hybridization of Esterified Low-Crystalline Cellulose with Poly(Lactic Acid) Kaito Sukagawa, Yoshimasa Matsumura, Akihiro Nishioka, Tomonori Koda, Bungo Ochiai 3P2E039 Esterification of alpha-1,6-graft-alpha-1,3-glucan and its characterization Azusa Togo, Mayumi Usagawa, Satoshi Kimura, Tadahisa Iwata 3P2E040 Resinification by Thermosetting of Chlorella Using Basic Compounds Kohei Iritani, Rinka Nihei, Takashi Yamashita 3P2E041 The enhancement of cellulose II crystallinity with low concentration alkali multi-steps post-treatments Yuki Kugo, Takuya Isono, Kenji Tajima, Toshifumi Satoh, Tomoki Erata 3P2E042 Preparation and properties of self-healing polyester networks composed of poly(butylene succinate-co-butylene itaconate) and thiol-terminated polyether containing disulfide linkages Warunya Ussama, Naozumi Teramoto, Mitsuhiro Shibata 3P2E043 Development of poly(γ-glutamic acid)-based block copolymer synthesized by environment-friendly solid state polymerization Naoki Doi, Kazumi Hirata, Yuka Yamagishi, Kazunari Aoyama, Masayuki Kuzuya, Shin-ichi Kondo 3P2E044 Formation of particle-based films with high stretchability Yuma Sasaki, Takuma Kureha, Seina Hiroshige, Haruka Minato, Kazuya Uenishi, Kazuko Nakazono, Toshikazu Takata, Daisuke Suzuki		<u>Hideaki Ono</u> ,Hiroyuki Minamikawa,Koji Nemoto,Masaru Yoshida
Cellulose with Poly(Lactic Acid) Kaito Sukagawa, Yoshimasa Matsumura, Akihiro Nishioka, Tomonori Koda, Bungo Ochiai 3P2E039 Esterification of alpha-1,6-graft-alpha-1,3-glucan and its characterization Azusa Togo, Mayumi Usagawa, Satoshi Kimura, Tadahisa Iwata 3P2E040 Resinification by Thermosetting of Chlorella Using Basic Compounds Kohei Iritani, Rinka Nihei, Takashi Yamashita 3P2E041 The enhancement of cellulose II crystallinity with low concentration alkali multi-steps post-treatments Yuki Kugo, Takuya Isono, Kenji Tajima, Toshifumi Satoh, Tomoki Erata 3P2E042 Preparation and properties of self-healing polyester networks composed of poly(butylene succinate-co-butylene itaconate) and thiol-terminated polyether containing disulfide linkages Warunya Ussama, Naozumi Teramoto, Mitsuhiro Shibata 3P2E043 Development of poly(γ-glutamic acid)-based block copolymer synthesized by environment-friendly solid state polymerization Naoki Doi, Kazumi Hirata, Yuka Yamagishi, Kazunari Aoyama, Masayuki Kuzuya, Shin-ichi Kondo 3P2E044 Formation of particle-based films with high stretchability Yuma Sasaki, Takuma Kureha, Seina Hiroshige, Haruka Minato, Kazuya	3P2E037	informatics based on molecular simulation
Azusa Togo, Mayumi Usagawa, Satoshi Kimura, Tadahisa Iwata 3P2E040 Resinification by Thermosetting of Chlorella Using Basic Compounds Kohei Iritani, Rinka Nihei, Takashi Yamashita 3P2E041 The enhancement of cellulose II crystallinity with low concentration alkali multi-steps post-treatments Yuki Kugo, Takuya Isono, Kenji Tajima, Toshifumi Satoh, Tomoki Erata 3P2E042 Preparation and properties of self-healing polyester networks composed of poly(butylene succinate-co-butylene itaconate) and thiol-terminated polyether containing disulfide linkages Warunya Ussama, Naozumi Teramoto, Mitsuhiro Shibata 3P2E043 Development of poly(γ-glutamic acid)-based block copolymer synthesized by environment-friendly solid state polymerization Naoki Doi, Kazumi Hirata, Yuka Yamagishi, Kazunari Aoyama, Masayuki Kuzuya, Shin-ichi Kondo 3P2E044 Formation of particle-based films with high stretchability Yuma Sasaki, Takuma Kureha, Seina Hiroshige, Haruka Minato, Kazuya	3P2E038	Cellulose with Poly(Lactic Acid) <u>Kaito Sukagawa</u> ,Yoshimasa Matsumura,Akihiro Nishioka,Tomonori
 Kohei Iritani, Rinka Nihei, Takashi Yamashita 3P2E041 The enhancement of cellulose II crystallinity with low concentration alkali multi-steps post-treatments Yuki Kugo, Takuya Isono, Kenji Tajima, Toshifumi Satoh, Tomoki Erata 3P2E042 Preparation and properties of self-healing polyester networks composed of poly(butylene succinate-co-butylene itaconate) and thiol-terminated polyether containing disulfide linkages Warunya Ussama, Naozumi Teramoto, Mitsuhiro Shibata 3P2E043 Development of poly(γ-glutamic acid)-based block copolymer synthesized by environment-friendly solid state polymerization Naoki Doi, Kazumi Hirata, Yuka Yamagishi, Kazunari Aoyama, Masayuki Kuzuya, Shin-ichi Kondo 3P2E044 Formation of particle-based films with high stretchability Yuma Sasaki, Takuma Kureha, Seina Hiroshige, Haruka Minato, Kazuya 	3P2E039	
multi-steps post-treatments Yuki Kugo, Takuya Isono, Kenji Tajima, Toshifumi Satoh, Tomoki Erata 3P2E042 Preparation and properties of self-healing polyester networks composed of poly(butylene succinate-co-butylene itaconate) and thiol-terminated polyether containing disulfide linkages Warunya Ussama, Naozumi Teramoto, Mitsuhiro Shibata 3P2E043 Development of poly(γ-glutamic acid)-based block copolymer synthesized by environment-friendly solid state polymerization Naoki Doi, Kazumi Hirata, Yuka Yamagishi, Kazunari Aoyama, Masayuki Kuzuya, Shin-ichi Kondo 3P2E044 Formation of particle-based films with high stretchability Yuma Sasaki, Takuma Kureha, Seina Hiroshige, Haruka Minato, Kazuya	3P2E040	
poly(butylene succinate-co-butylene itaconate) and thiol-terminated polyether containing disulfide linkages Warunya Ussama, Naozumi Teramoto, Mitsuhiro Shibata 3P2E043 Development of poly(γ-glutamic acid)-based block copolymer synthesized by environment-friendly solid state polymerization Naoki Doi, Kazumi Hirata, Yuka Yamagishi, Kazunari Aoyama, Masayuki Kuzuya, Shin-ichi Kondo 3P2E044 Formation of particle-based films with high stretchability Yuma Sasaki, Takuma Kureha, Seina Hiroshige, Haruka Minato, Kazuya	3P2E041	multi-steps post-treatments
environment-friendly solid state polymerization Naoki Doi, Kazumi Hirata, Yuka Yamagishi, Kazunari Aoyama, Masayuki Kuzuya, Shin-ichi Kondo 3P2E044 Formation of particle-based films with high stretchability Yuma Sasaki, Takuma Kureha, Seina Hiroshige, Haruka Minato, Kazuya	3P2E042	poly(butylene succinate-co-butylene itaconate) and thiol-terminated polyether containing disulfide linkages
Yuma Sasaki, Takuma Kureha, Seina Hiroshige, Haruka Minato, Kazuya	3P2E043	environment-friendly solid state polymerization <u>Naoki Doi</u> ,Kazumi Hirata,Yuka Yamagishi,Kazunari Aoyama,Masayuki
	3P2E044	Yuma Sasaki, Takuma Kureha, Seina Hiroshige, Haruka Minato, Kazuya

Fri. May 27

Presentation Time <15:30~16:30> Online Room PosterP3

3P3F001	Introducing Electron Donating Groups in Anthracene- <i>ortho</i> -Carborane Dyad toward Solid-State Deep-Red Luminescence <u>Kazuhiro Yuhara</u> ,Kazuo Tanaka
3P3F002	Synthesis of Novel π-Conjugated Ladder Polymers with a Consecutively- Fused Multiple Helicene Backbone and Their Optical Properties <u>Hayato Inagaki</u> ,Tomoyuki Ikai,Eiji Yashima
3P3F003	Synthesis of Defect-Free Fluorene-Based π-Conjugated Helical Ladder Polymers and Their Optical Properties <u>Sayaka Miyoshi</u> ,Tomoyuki Ikai,Eiji Yashima
3P3F004	Effect of Substituents on the Arsenic Atom on the Properties of Dithieno[3,2-b:2',3'-d]arsoles and Application to Polymerization Chisa Takahara , Suzuka Iwasaki, Hyota Kihara, Hiroaki Imoto, Kensuke Naka
3P3F005	Double Cyclopolymerization of Trifunctional Incompletely-Condensed Cage Silsesquioxane and Their Properties <u>Taishi Nakano</u> ,Keigo Okamoto,Hiroaki Imoto,Kensuke Naka
3P3F006	Synthesis and Self-assembly of Discrete Sugar-inorganic Block Copolymers <u>Taiki Nishimura</u> ,Kenji Tajima,Takuya Isono,Toshifumi Satoh
3P3F007	Topological Trapping of Multicyclic Poly(dimethylsiloxane) in Silicone Rubber <u>Asuka Soga, Minami Ebe, Kaiyu Fujiwara, Takuya Isono, Takuya Yamamoto, Kenji Tajima, Toshifumi Satoh</u>

3P3F008 Synthesis and Properties of Polyazomethines Using Double-Decker Silsesquioxane Derivative Monomers

<u>Yuta Hirosawa</u>, Tasuku Kamitani, Hiroaki Imoto, Kensuke Naka

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

3P3F010	Development of Nanostructured Water-treatment Membranes Based on Smectic Liquid Crystals <u>Kazuhiro Asakura</u> ,Takeshi Sakamoto,Miaomiao Liu,Hiroyuki Katayama,Takashi Kato
3P3F011	Development of Functional Liquid Crystals Having Biomolecular Derivatives <u>Mina Hasome</u> ,Anna Niwa,Rie Makiura,Junya Uchida,Takashi Kato
3P3F012	Preparation of stimuli-responsive-polymeric carriers for benzoxaborole-based drugs <u>Kota Katsube</u> , Yohei Kotsuchibashi
3P3F013	One-shot preparation of polyester vitrimers based on a new type cross-linking method utilizing hydrolysis and bond exchange <u>Mikihiro Hayashi</u> , Takahiro Kimura
3P3F014	Correlation between branch numbers at the cross-link and stress relaxation property in the vitrimer materials <u>Taketo Isogai</u> , Mikihiro Hayahsi
3P3F015	β-Hairpin Peptide with pH-Controllable Affinity for Tumor Cells <u>Shinnosuke Nishimura</u> ,Kei Nishida,Tanaka Masaru Tanaka
3P3F016	Development of photo-patterning polymerization using 3D printer and control of material physical properties Haruka Fukunishi , Mikihiro Hayashi
3P3F017	Synthesis of Acrylic Network Polymer Using Mutual Plug-in Type Rotaxane Dimer as Crosslinker and Evaluation of Its Physical Properties <u>Yusei Yamauchi</u> ,Kenjiro Onimura,Kazuhiro Yamabuki
3P3F018	Mechanical and Optical Properties of Liquid-Crystalline Elastomers incorporating Auxetic Frameworks <u>Yudai Fuwa</u> ,Kyohei Hisano,Osamu Tsutsumi
3P3F019	Development of Highly Stretchable and Wearable Elastomer Structure with Liquid Metal Encapsulated in Auxetic Channel <u>Yukihide Tashiro</u> ,Syuntaro Kondo,Hiroshi Endo

Online Room PosterP4

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

3P4F026	Polymer plates as an aqueous bubble stabilizer <u>Yuri Sakurai</u> ,Tomoyasu Hirai,Yoshinobu Nakamura,Syuji Fujii
3P4F027	Stabilization of liquid marble with conical particles <u>Shinji Segami</u> ,Tomoyasu Hirai,Yoshinobu Nakamura,Syuji Fujii
3P4F028	Dynamic wetting behavior analysis of droplets in liquid on microstructured surfaces <u>Honoka Sugiyama</u> ,Daisuke Ishii,Maria Inukai
3P4F029	Evaluation of oil-water separation behavior by polyurethane multilayer structures with different wettability Kazuya Uchida , Daisuke Ishii
3P4F030	Rapid formation of lamellar structure in poly(N-dodecyl acrylamide) using microwave-solvent annealing <u>Mizuki Ohke</u> ,Jun Matsui
3P4F031	In-situ measurements of grazing-incidence X-ray scattering for

	polycaprolactone thin films on Si substrate during seawater immersion treatments <u>Mamiko Takigawa</u> ,Kenshirou Kaji,Toan Nguyen Van,Hiroyasu Masunaga,Taiki Hoshino,Chiharu Miyazaki,Yuji Aso,Shinichi Sakurai,Sono Sasaki	
3P4F032	Investigation of correlation between preferred lamellar orientation and surface local elastic modulus in linear polymer thin films Kenshiro Kaji, Van Toan Nguyen, Mamiko Takigawa, Hiroyasu Masunaga, Taiki Hoshino, Shinichi Sakurai, Sono Sasaki	
3P4F033	Molecular combing of block copolymers by the dipping method <u>Kazuhiro Ito</u> ,Jiro Kumaki	
3P4F034	Molecular interaction between fiber/polymers and low-molecular weight compounds 45. Identification of polymer films by adsorption Aya Inada , Hitoshi Kanazawa	
E. POLYMERS AND ENVIRONMENT		
3P4F036	Chain Extension of Lignophenol with Partial Epoxy Resin Curing using Ethylene Glycol Diglycidyl Ether Soichi Tabata, Mitsuru Aoyagi	
3P4F037	Preparations of composite molds of polystyrene with native lignin derivatives <u>Kai Isozaki</u> ,Mituru Aoyagi	
3P4F038	Application of recycled lignophenol for photo-sensitizers of TiO2 photo- electricity conversion devices <u>Yuji Haraguchi</u> ,Mitsuru Aoyagi	
3P4F039	Specific Adsorption of Bio-related Molecules on Lignophenol Derivatives Anna Matsumoto, <u>Mitsuru Aoyagi</u>	
3P4F040	Synthesis and Characterization of Photo-degradable Polyurethane Elastomers with Photo-sensitive Cross-linker <u>Reiki Tsuchihashi</u> , Yoshihito Ishida	
3P4F041	Photo-oxidative degradations of polyolefins containing oxo-biodegradable additives <u>Adchara Padermshoke</u> ,Tomoko Kajiwara,Yingjun An,Atsushi Takahara	
3P4F042	Fabrication of photo-degraded plastics microparticles for evaluation of biological effects <u>Tomoki Hiraoka</u> ,Mika Murakami,Tadao Tanabe,Tsuyoshi Kimura,Masaya Yamamoto	
3P4F043	Characterization of Higher Order Structure of Ocean Microplastics. <u>Tomoko Kajiwara</u> , Akemi Kumagai, Hironori Marubayashi, Hiroyasu Masunaga, Sono Sasaki, Hiroshi Jinnai, Atsuhiko Isobe, Atsushi Takahara	
3P4F044	Phosphorylation of ethylene-vinyl alcohol copolymer and properties <u>Muneharu Kurosaki</u> , Yukihiro Kishimoto, Takumi Okihara	