Room A

Tue. Sep 16

Invited Lecture

	Hi	deto Minami, presiding
11:00	1A09IL	Development of Living Polymerization Based on Dormant Species for Precision Polymer Synthesis <u>Masami Kamigaito</u>
	Sh	ligeru Yamago, presiding
13:00	1A13IL	Library Polymer Synthesis for Elucidating Correlations between Primary Structures (Sequence and Tacticity) and Physical Properties <u>Makoto Ouchi</u>
	Yo	Nakamura, presiding
14:00	1A17IL	Interactions and nanostructure formation in polymer solutions: Possibilities for new material design Ken Terao

Award Lecture "English Session"

Kazushi Mashima, presiding

15:00 1A21AL Insights into Rare-Earth-Metal Catalysts Used in Industrial 1,3-Diene Polymerization
Reiner Anwander

Atsushi Takahara, presiding

Invited Lecture

Jun Okada, presiding

17:00 1A29IL Creation of polymer biomaterial science for improving patients quality of life Kazuhiko Ishihara

Wed. Sep 17

Invited Lecture

Koji Yamada, presiding

9:30	2A03IL	Development of easily dismantled materials by external stimuli <u>Hideki Tachi</u>
	T	akashi Nishino, presiding
10:30	2A07IL	Construction Archimedean tiling patterns from block copolymers mixtures and covalent organic framework Shiao-Wei Kuo
		Award Lecture
	D	aisuke Kawaguchi, presiding
13:00	2A13AL	Development of Polymer Electrolytes Based on Organic Nanoionics and Their Device Applications <u>Manabu Tanaka</u>
	т	akahiro Ichikawa, presiding
13:30	2A15AL	Development of Chemical Sensor Devices Based on π-Conjugated Polymers for Real-Sample Analysis <u>Tsuyoshi Minami</u>
	K	azuki Fukushima, presiding
14:00	2A17AL	Catalytic Bond Cleavage towards Selective Degradation of Mixed Polymer Wastes <u>Takanori Iwasaki</u>
	K	azuaki Matsumura, presiding
14:30	2A19AL	Continuous Production of Organic Soft Materials Inspired by Deep-Sea Hydrothermal Environments <u>Shigeru Deguchi</u>
Thu. Se	p 18	
		Invited Lecture
	Н	lideo Ohkita, presiding
10:00	3A05IL	Development of Novel Organic Semiconductors for Efficient Solar Energy Utilization <u>Yutaka Ie</u>
	Y	oshikuni Sasaki, presiding
11:00	3A09IL	Structural Control of Polymer Particles by Self-organization <u>Hiroshi Yabu</u>

Tue. Sep 16

Room B

Teruaki Hayakawa, presiding 1B05ILY Synthesis and Properties of Phosphine Sulfide-Containing

10:00	1B05ILY	Synthesis and Properties of Phosphine Sulfide-Containing Polymers <u>Ryoyu Hifumi</u>
10:30	1B07ILY	Synthesis of functional copolymers via postpolymerization C-H functionalization <u>Myungeun Seo</u>
	Ita	aru Osaka, presiding
11:00	1B09ILY	Synthesis of Sequence-Controlled Polychalcogenophenes and

Their Optoelectronic Applications Kuo-Hsiu Haung, Huai-Huan Liu, Kuang-Yi Cheng, Chia-Lin Tsai, Yen-ju Cheng 11:30 1B11ILY Tailored Crosslinkers for the Creation of Functional Network Polymers

Tomoya Higashihara, presiding

Hiromitsu Sogawa

14:30	1B19ILY	Core Cross-Linked Star Polymers from Ring-Opening Metathesis Polymerization <u>Jeewoo Lim, Minji Kim, Hanjin Choi, Jaehyun Kim, Sung Beom</u> Park
15:00	1B21ILY	Efficient Synthesis of Ultrahigh Molecular Weight Poly(methyl methacrylate) via Visible Light-Induced RAFT Polymerization

Hiroharu Ajiro, presiding

Sheng-Sheng Yu

in Deep Eutectic Solvent

		5 / 1
15:30	1B23ILY	Template-directed polymerization of XNA by chemical ligation. <u>Keiji Murayama</u>
16:00	1B25ILY	Dielectric polymer nanostructures with enhanced polarization for high-performance energy-harvesting applications <u>Minsoo Kim</u>
16:30	1B27ILY	Intrinsically elastic polyfluorene-based copolymers via coupling and RAFT reactions for SWCNTs application. <u>Yu-Cheng Chiu</u> ,Livy Laysandra,Mei-Nung Chen,Maina Moses Mburu,Ai-Nhan Au-Duong,Daniel Muara Sentosa

Ken Kojio, presiding

Chia-Chih Chang

17:00	1B29ILY	Exploring novel functions of elastomers by precision control of network structure Shintaro Nakagawa
17:30	1B31ILY	Inorganic Polymer-derived Ceramics: 3D Structuring, Reactors, and Surface Coatings Yoon-Ho Hwang
18:00	1B33ILY	Development of Functional Polymers for Triboelectric Bacteria

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Sensing and Antifouling Applications

Hironobu Watanabe, presiding

9:00	2B01	Preparation of Chiral Silica Using Organic-Inorganic Hybrid Polymers and Evaluation of Its Functional Properties. <u>Shunsuke Morii</u> , Yoshinobu Nakamura, Syuji Fujii, Tomoyasu Hirai
9:15	2B02	Preparation of Novel Chiral Silica Using Giant Molecules with Polyhedral Oligomeric Silsesquioxane and Evaluation of Its Optical Properties Shinichi Kusaka, Yoshinobu Nakamura, Syuji Fujii, Tomoyasu Hirai
9:30	2B03	Controlled synthesis of dendritic polymethacrylate by using TERP <u>Jin Suzuki</u> ,Shigeru Yamago
9:45	2B04	Reduction of Silver Ion by Carborane Derivatives and Physical Properties after Silver Mirror Formation <u>Mei Tokutomi</u> ,Kazuo Tanaka
	Y	oshimasa Matsumura, presiding
10:00	2B05	Photophysical Properties of π-Conjugated Open-Cage Carboranes with Chiral Cage <u>Kousei MATSUMOTO</u> ,Takumi YANAGIHARA,Kazuo TANAKA
10:15	2B06	Optical Properties of o-Carborane Derivatives with Heterohelicene Unit Kazuhiro Yuhara, Kazuo Tanaka
10:30	2B07	Synthesis of Luminescent Indium-Fused Azobenzene Complexes from Indium Oxide by Mechanochemical Reaction Chiaki Hotta, Masayuki Gon, Kazuo Tanaka
10:45	2B08	Optical Properties of the Cyclic Conjugated Oligomer Containing o-Carborane Associated with Guest Inclusion <u>Sota Takemori</u> ,Kazuhiro Yuhara,Takumi Yanagihara,Kazuo Tanaka
	K	azuo Tanaka, presiding
11:00	2B09IL	Ladder Polymer Science Based on Ladder Bonding: Innovation in Secondary Structure Control and Functional Design <u>Tomoyuki Ikai</u>
	M	asayuki Gon, presiding
13:00	2B13	Synthesis of Poly(2-vinylpyridine)-block-polydimethylsiloxane via ROP and RAFT polymerizations <u>Haruka Samizo</u> ,Riku Takahashi,Kan Hatakeyama,Yuta Nabae,Teruaki Hayakawa
13:15	2B14	Precise Design and Microphase Separation Control of Poly(phenylene ether)-Containing Block Copolymers Riku Takahashi,Kan Hatakeyama,Yuta Nabae,Teruaki Hayakawa
	T	akaya Terashima, presiding
13:30	2B15	Development of Near-Infrared Absorbing Materials with Stimuli-Responsiveness Based on the Dinucleation of Hypervalent Tin Azobenzene Compounds. <u>Kento Tanaka</u> ,Masayuki Gon,Kazuo Tanaka
13:45	2B16	Synthesis of Hypervalent Silicon Compounds with Strong Electron-Accepting Ability and Creation of Near-Infrared Absorptive/Luminescent Materials <u>Masayuki Gon</u> ,Kazuo Tanaka

14:00	2B17	Inclusion polymerization in pillar[n]arene crystals <u>Shotaro Miki</u> ,shunsuke Ohtani,kenichi kato,tomoki ogoshi
14:15	2B18	Synthesis of Sulfur[n]arenes and Solid-State Supramolecular Dimerization via Multiple Sulfur–Sulfur Interactions Shunsuke Ohtani, Keiichiro Murakami, Kenichi Kato, Tomoki Ogoshi
	\$	Shunsuke Ohtani, presiding
14:30	2B19	Control of Chiroptical Properties in Poly(diphenylacetylene)s Bearing Optically Active Groups in the Side Chain via an Amide Linkage by Photoirradiation Naoe Kuroishi, Yuki Nishikawa, Daisuke Hirose, Katsuhiro Maeda
14:45	2B20	Chiroptical Properties of Poly(diphenylacetylene) Derivatives with Macromolecular Helicity Memory in the Film State <u>Takumi Matsuo</u> , Yanchen Hong, Daisuke Hirose, Katsuhiro Maeda
15:00	2B21	Assessing the Effect of Ring Size on the Formation of Macrocyclic Hybrid Compounds <u>Yuki Nakamura</u> ,Kousuke Tsuchiya,Takamasa Sakai
15:15	2B22	Photophysical Properties of π-Conjugated Polymers Based on Dipyridylmethene Boron Complex <u>Kohsei YAMADA</u> ,Yuto AOYAMA,Shunichiro ITO,Kazuo TANAKA
	I	Daisuke Hirose, presiding
15:30	2B23	Research into the Optical Properties of Boron Tropolonate Complexes with Coordination-Site Amination and Their Conjugated Polymers <u>Ryusei Nakashima</u> ,Hikari Ogoshi,Shunichiro Ito,Kazuo Tanaka
15:45	2B24	Development of π-Conjugated Materials Based on 9- Hydroxyphenalenone Boron Complexes with Strong Electron- Accepting Ability and Extended π-Plane <u>Yuga Tarumi</u> ,Shunichiro Ito,Kazuo Tanaka
16:00	2B25	Photochemical Rearrangement of Substituents on Boron Center of Boron Pyridylenolate Complexes and Photochromic Luminescence Yuto AOYAMA, Shunichiro ITO, Kazuo TANAKA
16:15	2B26	Maleic Acid Derivatives/Vinyl Ether Alternating Copolymers: From Library Synthesis To Nanostructured Materials <u>Hiroyuki Kouno</u> ,Makoto Ouchi,Takaya Terashima
	8	Shunichiro Ito, presiding
16:30	2B27	Synthesis and Microphase Separation of Amphiphilic Copolymers Bearing Phosphoric Acids as Side Chains <u>Haruaki Sakata</u> ,Makoto Ouchi,Takaya Terashima
16:45	2B28	Microphase Separation of Block Oligomers: Primary and Assembled Structures Controlled by Chain Transfer Agents <u>Kakeru Wakeshima</u> , Makoto Ouchi, Takaya Terashima
17:00	2B29	Micelle Formation in the Mixtures of Ionic/PEG Random Copolymers: Self-Assembly Systems Controlling the Fusion and Separation of Polymers <u>Teruya Machino</u> , Makoto Ouchi, Takaya Terashima

17:15	2B30	Microphase Separation Materials of Imidazolium Cation
		Copolymers: Nanostructure Control via Side Chain
		Association
		Keita Iuchi, Makoto Ouchi, Takaya Terashima

Room C

Tue. Sep 16

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

]	Masayuki Gon, presiding
10:00	1C05	Anisotropically Transformable Gels Based on Anisotropy in Interpenetrating Structure of Isoreticular Metal-Organic Frameworks Sosuke Kamiura, Shizuka Anan, Kenta Kokado
10:15	1C06	Introduction of boron-based cross-linking point utilizing direct C-H borylation to poly(conjugated dienes) <u>Keishi Sukita</u> ,Ryo Tanaka,Yuushou Nakayama,Takeshi Shiono

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS "English Session"

Masayuki Gon, presiding

10:30 1C07 Synthesis of polyethylenes bearing in-chain thioamides or amines via main-chain editing of a long chain polyketones Yipu Lu,Kohei Takahashi,Nontarin Roopsung,Shintaro Nakagawa,Naoko Yoshie,Kyoko Nozaki

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Masayuki Gon, presiding 10:45 1C08 Synthesis and characterization of membrane using π -fused propellane Seina Okada, Kenichi Kato, Shunsuke Ohtani, Tomoki Ogoshi Shintaro Nakagawa, presiding 1C09 11:00 Vitrimer-like Acryl Elastomers using Conjugate Substitution Reaction: Effects of Reversibility in Cross-Link Formation on Network Structure Tomoyasu Kunii, Mikihiro Hayashi, Yasuhiro Kohsaka 11:15 1C10 Vitrimer-like Tough Glass Prepared by Cross-Linking of Acrylic/Methacrylic Polymer Blends via Conjugate Substitution Reaction Miu Mizuma, Mikihiro Hayashi, Yasuhiro Kohsaka 1C11 11:30 Synthesis and chemical recycling of cross-linked polymers based on aliphatic polycarbonates

		<u>Rikuto Niki,</u> Yusuke Kita,Chen Pengru,Tatsuo Taniguchi,Masazumi Tamura,Daisuke Aoki
11:45	1C12	Design of UV- Curable Adhesives Dismountable via Main- Chain Scission Induced from Pendant Groups Yuto Kawamura, Yasuhiro Kohsaka
	8	Shizuka Anan, presiding
13:00	1C13	Chemical recycling of petroleum-based polycarbonate by ammonolysis and application of recycled bisphenol A <u>Toyokazu Tsutsuba</u> ,Tomoki Shimokawa,Tatsuo Taniguchi,Daisuke Aoki
13:15	1C14	Synthesis and degradation of carbon-carbon main chain polymers with an alkoxycarbonylmethylene unit <u>Hiroaki Shimomoto</u> ,Tsubasa Deguchi,Tomomichi Itoh,Eiji Ihara
13:30	1C15	Chemical recycling of polyurethanes using aqueous ammonia <u>Keitaro Ito</u> ,Kazuaki Rikiyama,Tatsuo Taniguchi,Daisuke Aoki
13:45	1C16	Development of degradable PES incorporating light-driven cleavable C-O bonds. <u>Keisuke Yasuda</u> ,Yasuyuki Nitta,Masatoshi Ohyama,Takashi Nishikata
	I	Daisuke Aoki, presiding
14:00	1C17	Photochemical Reaction Behavior of π-Conjugated Polymers Having Heavier Group 15 Elements-containing Heterole Units Obtained by Post-elements-transformation Process <u>Keisuke Tsujimura</u> , Moeki Nakano, Ryoyu Hifumi, Ikuyoshi Tomita
14:15	1C18	Base-Catalyzed Degradation of Acrylic Polymers Based on Generation of Anionic Species from C-H Bonds on the Main Chains <u>Tomoki WATANABE</u> ,Hironobu WATANABE,Mineto UCHIYAMA,Masami KAMIGAITO
14:30	1C19	Development of Polyarylates Containing Core-Blocks Degradable by Photocatalysis <u>Masatoshi Ohyama</u> ,Yasuyuki Nitta,Yuta Nakamura,Takashi Koike,Tsuyoshi Taniguchi,Takashi Nishikata
14:45	1C20	Photocatalytic C-O Bond Cleavage-Enabled Design of Degradable Polyurethanes for Chemical Recycling <u>Yasuyuki Nitta</u> ,Masatoshi Ohyama,Takashi Koike,Tsuyoshi Taniguchi,Takashi Nishikata
	7	Takashi Nishikata, presiding
15:00	1C21	Study on degradation behavior of various heat-resistant polymers under acidic conditions. <u>Tsuyoshi Takano</u> ,Ryoyu Hifumi,Ikuyoshi Tomita

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS "English Session"

Takashi Nishikata, presiding

15:15 1C22 Elucidation of the Scope and Limitations of Ortho-Nitrobenzyl (oNB) Group as a Photodegradable Unit <u>Jiade WU</u>,Masatoshi TOSAKA,Shigeru YAMAGO

15:30	1C23	Synthesis of Self-Immolative Polymers with Various Terminal
		Structures by Controlled/Living Click Polymerization
		Yuto Nakauchi, Tomohiro Kubo, Kotaro Satoh

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

	•	Takashi Nishikata, presiding
15:45	1C24	Precise C(sp3)-H bond functionalization of polyethylene glycol derivatives using semiconductor photocatalyst in water <u>Yoshino Inamori</u> ,Shogo Mori,Mineto Uchiyama,Masami Kamigaito,Susumu Saito
		Kotaro Satoh, presiding
16:00	1C25	Post-polymerization modification by direct arylation of click-induced structure <u>Yuki Kitagawa</u> ,Shotaro Hayashi
16:15	1C26	Cu-free synthesis of glycidyl triazolyl polymers and their characterization <u>Taichi Ikeda</u>
16:30	1C27	Thermally triggered alkene-alcohol conjugation using nitrile N-oxide-based orthogonal agent. <u>Sota Nozawa</u> ,Noriyuki Nakajima,Masahiro Hamada,Yasuhito Koyama
16:45	1C28	Development and validation of a comprehensive accelerating degradation analysis system <u>Yukinori Hasegawa, Kenichi Kttamura, Harumi Matsuda, Yuki Kato, Harumi Suetsugu, Oda Ryutarou, Shinichi Kuroda</u>
	:	Ikuyoshi Tomita, presiding
17:00	1C29	Terminal-specific post-polymerization modification of acrylamide polymers via intramolecular twisted amide formation Yu Hoshino, Honoka Moriguchi, Shota Iseri, Sotaro Tsuji, Yukiko Nagai, Toshikazu Ono, Hisashi Shimakoshi

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS "English Session"

Yu Hoshino, presiding

17:30 1C31 Design and Synthesis of Alkaline-tolerant Wholly Aromatic Substituted Sulfoniums and Phosphoniums and Their Applications to Anion-exchange Membrane Materials Tomoiro Imai,Tetsuaki Hashimoto,Boya Li,Ryoyu Hifumi,Ikuyoshi Tomita

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Yu Hoshino, presiding

18:00	1C33	Combustion performance evaluation of low melting point
		thermoplastic fuels with glycerin
		<u>Haruo Doi</u> ,Kanta Andou,Yutaka Wada

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS "English Session"

	5	Shin-ichi Matsuoka, presiding
9:00	2C01	Synthesis of polymeric nanostructures based on living coordination dispersion triblock copolymerization of allene derivatives under PISA conditions <u>Kotaro Kitamura</u> ,Ryoyu Hifumi,Ikuyoshi Tomita
9:30	2C03	Modification effect of Al- or Mg- based cocatalysts on the regiospecificity of Ni-catalyzed olefin polymerization YU JIA,NAO HARADA,TORU WADA,YUUSHOU NAKAYAMA,TAKESHI SHIONO,RYO TANAKA
	7	Yuushou Nakayama, presiding
10:00	2C05	Alternating copolymerization of carbon dioxide and epoxide by a heterogeneous lanthanoid phosphate catalyst <u>Masayoshi Honda</u> ,Hiroshi Sugimoto
	A. POLY	MER CHEMISTRY: SYNTHESIS AND REACTIONS
	7	Yuushou Nakayama, presiding
10:30	2C07	Alternating copolymerization of carbon dioxide and epoxide by mechanochemically synthesized zinc glutarate catalyst <u>Masayoshi Honda</u> ,Norio Saito,Takahiro Takei,Hiroshi Sugimoto
10:45	2C08	Alternating Copolymerization of <i>N</i> -Allylacrylamide with α-Olefins and Polymer Reactions of the Copolymer Kyoji Oshima, Daisuke Takeuchi
	1	Masayoshi Honda, presiding
11:00	2C09	Regioselective introduction of hydroxy groups on polyolefins utilizing isomerization polymerization <u>Rintaro Hamada</u> , Daisuke Takeuchi
11:15	2C10	Synthesis of bimodal stereoregular polypropylene using a catalytic system showing two different activation mechanisms <u>Daichi Oka</u> ,Syunsuke Nishiyama,Yuushou Nakayama,Takeshi Shiono,Ryo Tanaka
11:30	2C11	Synthesis of one-handed helical C1 polymers by stereospecific polymerization of diazoacetates <u>Hiroaki Shimomoto</u> , Ayano Hori, Tomomichi Itoh, Eiji Ihara
11:45	2C12	Vinyl addition polymerization of norbornenes using phosphinimide Ti complexes <u>Maiko Hayashi</u> ,Shin-ichi Matsuoka
	I	Hiroaki Shimomoto, presiding
13:00	2C13	Synthesis of polymers based on hydroxylation of polyaryl compounds. <u>Ryosuke Tanaka</u> , Hideki Sugimoto
13:15	2C14	Development of Chain-Growth Polyaddition via Co-Catalyzed Hydroarylation Polyaddition <u>Ryota Iwamori</u> ,Junpei Kuwabara,Takaki Kanbara

Ryota Iwamori, presiding

13:30	2C15	Preparation of composites of biobased network polyesters with cellulose nanofibers by acyclic diene metathesis polymerization <u>Ayana Inoue</u> , Yuichi Matsumoto, Gaku Miyamoto, Mohamed Mehawed Soliman Abdellatif, Hiroshi Hirano, Seiji Higashi, Kotohiro Nomura
13:45	2C16	Coordination Polymerization of Borylacetylenes and Post- Polymerization Transformation of Boryl Side Chains for Functional Polyacetylenes Sota Ueyama, Tsuyoshi Nishikawa, Makoto Ouchi
14:00	2C17	Utilization as a Polymerization Catalyst of Hypervalent Bismuth Compounds with π-Conjugated ligands <u>Shota Yagi</u> ,Masayuki Gon,Kazuo Tanaka
	Y	uichiro Watanabe, presiding
14:15	2C18	Photo-control over the supramolecular nanotubes formed from anthracene dyads bearing azobenzene moieties. <u>Rina Tomochika</u> , Hiroki Hanayama, Shiki Yagai
14:30	2C19	Development of Self-Healing Organic-Inorganic Hybrid Materials Utilizing Dynamic Boronic Ester Bonds <u>Kohei Yamanaka</u> ,Hideharu Mori
	н	iroki Hanayama, presiding
14:45	2C20	Development of Responsive Supramolecular Graft Polymer Gels via Molecular Recognition between Calix[4]resorcinarene-Based Self-Assembled Capsule Polymers and Guest Polymers Bearing Biphenyl Moieties Yuma Nakamura, Shin-ichi Kihara, Takehiro Hirao, Takeharu Haino
15:00	2C21	A Novel Supramolecular Strategy for Protection of Unstable Monomers and Interlocked Polymer Synthesis Using Pillar[n]arenes <u>Kouhei Sutou</u> ,Kiichi Yasuzawa,Kenichi Kato,Shunsuke Ohtani,Tomoki Ogoshi
15:15	2C22	Control over the formation of hierarchical structures composed of supramolecular polymers for hot-melt adhesives <u>Takara Matsutani</u> , Yuichiro Watanabe, Tsutomu Furuya, Koji Nishida, Kazunori Sugiyasu
	K	ohji Ohno, presiding
15:30	2C23IL	Supraomlecular polymers getting one step closer to macromolecules Kazunori Sugiyasu

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS "English Session"

Yuya Doi, presiding

16:30 2C27 Structures and properties of hydrogen-bonded organic frameworks (HOFs) based on bis(benzimidazolyl)methane derivatives, and the development into a synthetic strategy for HOFs using guest exchange Shun Ohta, Yurika Iwabuchi, Ryota Mukai, Momo Ishii, Tomoyuki Toda, Masaaki Okazaki

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

	7	Yuya Doi, presiding
17:00	2C29	Controlled/Living Click Polymerization with Various Vinyl Polymers as Macroinitiators <u>Yuta Yamazaki</u> ,Seiichiro Uchida,Tomohiro Kubo,Kotaro Satoh
17:15	2C30	Controlled/Living Click Copolymerization of Polyvinyl Ether AB Macromonomer Yasuaki Kobayashi, Tomohiro Kubo, Kotaro Satoh

Thu. Sep 18

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

		Ryoyu Hifumi, presiding
9:00	3C01	Synthesis of polybenzothiazoles by oxidative cyclopolymerization of aromatic diamine, diacrylates, and sulfur Masaru Yoneyama, Nao Yanagi
9:15	3C02	Synthesis of polybenzothiazole by oxidative cyclopolymerization of aromatic diamines, various aliphatic divinyl compounds, and sulfur Masaru Yoneyama, Yoshinobu Kuroko
9:30	3C03	Photopolymerization of 1,4-Diphenylbutadiyne Bearing Long Alkyl Chains with Terminal Hydroxy Groups <u>Reita Tsuji</u> ,Shinnichi Sakurai,Yukiyasu Kashiwagi,Sadayuki Asaoka
		Masaru Yoneyama, presiding
9:45	3C04	Synthesis of Thioester-Containing Degradable Polyesters and Their Application in Polymer Reactions <u>ZIXIAO LIANG</u> ,Ryoya Kamiki,Tomohiro Kubo,Kotaro Satoh
10:00	3C05	Synthesis of Readily Degradable Polymers with Periodic Hemiacetal Ester Linkages <u>Rion Ogawa</u> ,Sota Takashima,Ravi Teja Ananthu,Tomohiro Kubo,Kotaro Satoh
10:15	3C06	Investigation of intramolecular transfer of Pd catalyst on dihaloarylenes consisting of three phenylenes connected with two different functional groups and its application to Suzuki-Miyaura condensation polymerization Ken Kuwabara , Daiki Takamatu, Yoshihiro Ohta, Tsutomu Yokozawa
		Masaki Nakahata, presiding
10:30	3C07	Direct Arylation Polymerization of Heteroarene with Aryl Triflates <u>Shunta Sakai,</u> Hitoshi Hanamura,Rieko Fujita,Kenichi Tada,Masayuki Wakioka
10:45	3C08	Synthesis and Dielectric Property Evaluation of Poly(phenylene ether sulfone) with Bulky Side Chains <u>Kentaro Sone</u> ,Hayato Maeda,Kan Hatakeyama,Yuta Nabae,Teruaki Hayakawa

11:00	3C09	New methods of PEEK polymer synthesis using the chlorine
		monomer
		<u>Hajime Watanabe</u> ,Ken Sudo,Koichi Suga

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS "English Session"

Masayuki Wakioka, presiding

11:15 3C10 Synthesis and Properties of Poly(trithiophosphonate)s from Various Dithiols

<u>Tianyue Zhou</u>,Ryoyu Hifumi,Ikuyoshi Tomita

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Masayuki Wakioka, presiding

11:30	3C11	Reaction control of polyurethane formation using betaines that generate tertiary amines upon thermal decomposition <u>Gashin Okamura</u> , Yukai Ito, Daisuke Aoki, Koji Arimitsu
11:45	3C12	Synthesis of Stereoregular Uniform Oligomers with the Dense Triazole Backbone and Amide Side Chains <u>Naoki Makita</u> ,Masaki Nakahata,Yuri Kamon,Akihito Hashidzume

Room D

Tue. Sep 16

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Takaya Terashima, presiding

10:00	1D05	Sequence-Controlled Cationic Terpolymerization Using Bulky Vinyl Ethers and Conjugated Aldehydes as Nonhomopolymerizable Monomers <u>Yuto Eguchi</u> ,Sadahito Aoshima,Arihiro Kanazawa
10:15	1D06	Cationic Alternating Copolymerization of <i>N</i> -Vinylphthalimide with Cyclic Hemiacetal Ester or Cyclic Acetal Momo Okada, Arihiro Kanazawa
10:30	1D07	Cationic Ring-Opening Copolymerization of Cyclic Esters and Five- or Six-Membered Cyclic Hemiacetal Esters Manami Banno, Sadahito Aoshima, Arihiro Kanazawa
10:45	1D08	Side reactions occurring in cationic polymerization of vinyl ethers: Investigation for revealing the mechanism of the alkoxy-group elimination reaction <u>Tensei Kanki</u> , Arihiro Kanazawa

Hironobu Watanabe, presiding

11:00	1D09	Cationic polymerization of low reactive styrene derivatives: Toward polymerization by the degenerative chain-transfer mechanism Yutaka Yokawa, Sadahito Aoshima, Arihiro Kanazawa
11:15	1D10	Synthesis of Catechol-containing Hyperbranched Polymers via Cationic Polymerization Using Inimer Risa Fujita, Tomohiro Kubo, Kotaro Satoh
11:30	1D11	Anionic isomerization polymerization using organocuprate reagent as an initiator <u>Hibiki Harako</u> ,Asuka Hamaguchi,Masaya Terasaki,Kaoru Adachi
11:45	1D12	Anionic polyaddition of methyl substituted stilbene using benzylic proton abstraction <u>Yugo Nakajima</u> ,Honoka Matsumoto,Takeru Iwamura,Kaoru Adachi
	•	Chihiro Homma, presiding
13:00	1D13	Development of Photocontrolled Anionic Polymerization of Methacrylates Using Photoswitchable Catalysts for C-H Bonds as the Dormant Species <u>Mei Okano</u> , Hironobu Watanabe, Mineto Uchiyama, Masami Kamigaito
13:15	1D14	Anionic Polymerization of Thioamides <u>Momo ISHIDA</u> ,Hironobu WATANABE,Mineto UCHIYAMA,Masami KAMIGAITO
13:30	1D15	Development of High-Performance Thermoplastic Elastomers from Bio-Based Itaconimide Monomer <u>Goki Hattori</u> ,Tomohiro Kubo,Kotaro Satoh
13:45	1D16	Ring-Opening Polymerization of a Cyclic Acrylate with a Six- Membered Ring <u>Ryuki Tsuchiya</u> ,Yasuhiro Kohsaka
	1	Kaoru Adachi, presiding
14:00	1D17	Anionic polymerization of N-tert-butyl-N-(4-vinylbenzylidene)amine in hydrocarbon solvent and polymer reaction <u>Kohei Takimoto</u> ,Chihiro Homma,Takashi Ishizone
14:15	1D18	Anionic polymerization of 6-(phenyl)benzofulvene derivatives and degradation behavior of resulting polymers <u>Jiaxuan Wu</u> ,Ayana Fukui,Chihiro Homma,Takashi Ishizone
14:30	1D19	Anionic polymerization of cyclohexyl-substituted [3]dendralenes <u>Haruto Tanaka</u> ,Chihiro Homma,Takashi Ishizone
14:45	1D20	Anionic self-alternating polymerization of a-substituted <i>p</i> -divinylbenzenes <u>Takuma Kasamatsu</u> ,Tsuyoshi Matsuo,Hamin Kim,Chihiro Homma,Takashi Ishizone
	1	Arihiro Kanazawa, presiding
15:00	1D21	Anionic ring-opening polymerization of oxindole derivative with a cyclopropane ring Seinosuke Katahira , Chihiro Homma, Takashi Ishizone
15:15	1D22	Synthesis of Aliphatic Polyesters by Ring-Opening Polymerization Using a Bifunctional Zwitterionic Catalyst and Its Application to degradation of polyesters

		<u>Minori Matsuda</u> ,Ryota Suzuki,Takuya Yamamoto,Feng Li,Takuya Isono,Toshifumi Satoh
15:30	1D23	Synthesis of aliphatic polyesters via ring-opening polymerization using food additives as catalysts <u>Toshiki Miwa</u> ,Ryota Suzuki,Takuya Yamamoto,Feng Li,Takuya Isono,Toshifumi Satoh
15:45	1D24	Ring-opening polymerization of 5-membered cyclic carbonates derived from myo-inositol and copolymerization with various comonomers <u>Yuto Oshima</u> , Hayato Tanno, Shota Hiraga, Osamu Haba, Tatsuro Toda, Hisanari Yoneda
	I	Masashi Sugiyama, presiding
16:15	1D26	Synthesis and properties of optically active hyperbranched polymers having chirality centers at branching points Quanyan Tan,An Xing,Tamaki Nakano
16:30	1D27	Synthesis of Dendrimers through Iterative Click-Addition Process and Their Applications <u>Yamato Watanabe</u> ,Shotaro Hayasi
16:45	1D28	Suzuki-Miyaura catalyst transfer-condensation polymerization of benzotriazole-triphenylamine donor-acceptor AB ₂ monomer for the synthesis of well-defined hyperbranched aromatic polymer Mayu SATO, Ryusuke SHIMADA, Yoshihiro OHTA, Tsutomu YOKOZAWA
17:00	1D29	Synthesis of End-hydroxyl Functionalized Dendritic Polyacrylates by TERP and Their Use in Condensed State Formation TIANXIANG TONG, Masatoshi Tosaka, Yumi Matsumiya, Hiroshi Watanabe, Shigeru Yamago
17:15	1D30	Synthesis and Material Property of Dendritic Polyacrylates Bearing Long Alkyl Chains at the Polymer-End by TERP. <u>Satsuki Imai</u> ,TIANXIANG TONG,Masatoshi Tosaka,Yumi Matsumiya,Hiroshi Watanabe,Shigeru Yamago
	8	Shotaro Hayashi, presiding
17:30	1D31	Introduction of Branched Structure into Poly(vinylidene fluoride) <u>Masafumi Sugiyama</u> ,Tetsuya Kashino,Chikahiro Hakoishi,Eisuke Yasuo,Satoru Hommura,Takashi Okazoe,Daisuke Kawaguchi
17:45	1D32	Direct Mesurement of Long-Branch Chain of Chiral Helical Polymer Ryoga Hori, <u>Ken-ichi Shinohara</u>
18:00	1D33	Residence time distribution effects on continuous-flow reaction in a polymer porous monolith <u>Yoshiko Miura</u> , Hikaru Matsumoto, Harutaka Shigeeda, Masanori Nagao
18:15	1D34	Surface-Initiated Polymerization of Conjugated Helical Polyisocyanides on Various Substrates and Particules <u>Yusuke Morita</u> ,Emika Omura,Sadayuki Asaoka

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

		Yuki Kametani, presiding
9:00	2D01	Syntheses and Thermosetting Property of Macrocyclic Compounds with Silyl Ether Bonds <u>Sota Amano</u> ,Kensuke Naka,Takahiro Iwamoto
9:15	2D02	Study on the Synthesis Process of Cyclic Polyvinylpyrrolidone <u>Kotaro Okawa</u> , Tomohisa Watanabe, Takuya Yamamoto
9:30	2D03	Macro-rotaxane formation of multicyclic poly(n-butyl acrylate) in acrylic rubber <u>Kotaro Ibe</u> ,Yamato Ebii,Kazushige Suzuki,Minami Ebe,Feng Li,Takuya Yamamoto,Takuya Isono,Toshifumi Sato
		Yasuhiro Kohsaka, presiding
9:45	2D04	MOF-templated synthesis of multi-fused cyclic polymers <u>Yoichi Hara</u> ,Yuki Kametani,Takashi Uemura
		Tomohiro Kubo, presiding
10:00	2D05	Topological transformation of multicyclic polymers by selective bond cleavage <u>Tsubasa Fukuda</u> ,Ami Nishijima,Takashi Uemura
10:15	2D06	Synthesis and characterization of multi-stranded vinyl polymers mediated by MOF nanochannels <u>Yosuke Nukui</u> , Yuki Kametani, Takashi Uemura
10:30	2D07	Synthesis of bundled copolymers with parallel chains of chemically distinct polymers <u>Yusuke Ando</u> ,Yuta Kawasaki,Yuki Kametani,Takashi Uemura
		Takuya Yamamoto, presiding
10:45	2D08	Design of thermoresponsive star polymers embedding cationic functional groups <u>Seiya Kato</u> ,Shohei Ida,Shokyoku Kanaoka
11:00	2D09	Facile property modification of star polymers by thermally induced reversible adsorption and desorption of linear block copolymers based on non-covalent interaction Yuki Danno, Shohei Ida, Shokyoku Kanaoka
11:15	2D10	Synthesis of Functional Star-Shaped Polymers from Block Copolymers Containing Itaconic Anhydride <u>Nanaho Kabuki</u> ,Shiho Tanizaki,Tomohiro Kubo,Kotaro Satoh
		Tsuyoshi Nishikawa, presiding
13:30	2D15	Synthesis of an A-B Diblock Copolymers / Homopolymers Blend via Two-Step Photopolymerization Using LEDs <u>Yasuyuki Sanai</u>
13:45	2D16	Spatially selective thermal polymerization of acrylate monomers utilizing patterned photothermal effect of near-infrared light irradiation <u>Tomoki Watanabe</u> ,Kaito Takahashi,Kotaro Shinmura,Miho Aizawa,Kyohei Hisano,Atsushi Shishido
14:00	2D17	Photocontrolled Radical Polymerization via Reversible Decarboxylation Using Carboxylates as Dormant Species <u>Haruyuki KATADA</u> ,Hironobu WATANABE,Mineto UCHIYAMA,Masami KAMIGAITO
14:15	2D18	Photocontrolled Nitroxide-Mediated Polymerization by Various Photothermal Catalysts

<u>Seima KONDO</u>,Hironobu WATANABE,Mineto UCHIYAMA,Masami KAMIGAITO

Arihiro Kanazawa, presiding

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14:30	2D19	Unzipping Depolymerization of Polymers Carrying Boronic Ester Pendant <u>Satoshi Akabane</u> ,Tomoaki Kanazawa,Tsuyoshi Nishikawa,Makoto Ouchi
14:45	2D20	Novel Sulfur-Free Photo-Iniferter/RAFT Agents for Controlled Radical Polymerization <u>Ayari NISHIO</u> , Eisuke HIRANO, Yuri MATSUBA, Akitsugu SHIBATA, Atsushi MATSUMOTO, Yasushi MAEDA, Shinji SUGIHARA
15:00	2D21	Development of Controlled Radical Polymerization with Thioether Initiators <u>Mina YONEGUCHI</u> , Hironobu WATANABE, Mineto UCHIYAMA, Masami KAMIGAITO
15:15	2D22	Synthesis of triazole-containing polymers based on vinyl ethers-maleic anhydride copolymers <u>Miyu Iwasaki, Michio Urushisaki, Toshikazu</u> Sakaguchi, Tamotsu Hashimoto
		Mineto Uchiyama, presiding
15:30	2D23	Library Synthesis of Acrylate-Cyclic Vinyl Monomer Alternating Copolymers for Unique Physical Properties Yuma Hanaura, Makoto Ouchi
15:45	2D24	Heterogeneous radical polymerization "on-water" <u>Yusaku Kambe</u> ,Shin-ichi Matsuoka
16:00	2D25	Copolymerization of conjugated dienes with styrylboronic acid and its application to cross-linked rubber materials Manami Kawamoto, Takeshi Shiono, Yuushou Nakayama, Ryo Tanaka, Subrata Dolui
16:15	2D26	Synthesis of Acrylamide-Based Alternating Copolymers Carrying Tertiary Amino and Hydrophobic Side Chains: Evaluation of Sequence-Dependent Stimuli-Responsive Properties Seungchul Kwak, Makoto Ouchi
		Yuushou Nakayama, presiding
16:30	2D27	Alternating Copolymerization of Electron-Deficient Monomer with Hydrocarbon Conjugated Monomer and Subsequent Pendant Transformation for Synthesis of Alternating Copolymer Exhibiting Sequence-Specific Properties Ryosei Watabe, Makoto Ouchi
16:45	2D28	Polymer Design by Radical Polymerization of Si-H Containing Monomers <u>Yuki ISHIKAWA</u> ,Hironobu WATANABE,Mineto UCHIYAMA,Masami KAMIGAITO
17:00	2D29	Radical (co)Polymerization of N-Containing exo-Methylene Monomers with Various Structures <u>Sota Takashima</u> ,Tomohiro Kubo,Kotaro Satoh
17:15	2D30	Styrene-Methacrylate Alternating Copolymers via Copolymerization and Pendant Transformation with Designer Monomers Having Improved Abilities of Copolymerization, Transformation, and Polymerization Control <u>Haruto Nitanda</u> , Makoto Ouchi

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

	Hi	roharu Ajiro, presiding
9:00	3D01	Effect of Photoirradiation of Radical Polymerization of Various C=S Bond-Containing Monomers Ami Negishi , Sota Yamamoto, Ryoya Kamiki, Tomohiro Kubo, Kotaro Satoh
9:15	3D02	Radical Ring-Opening Polymerization of Cyclic Thionoesters Derived from Salicylic Acid with Various Substituents Ryoya Kamiki, Tomohiro Kubo, Kotaro Satoh
9:30	3D03	Radical Polymerization of Thioamides with Various Pendant Groups: Control of Polymer Degradability and Synthesis of Structurally Unique Polymers Based on Pendant Group Design Toshiki IIDA, Hironobu WATANABE, Mineto UCHIYAMA, Masami KAMIGAITO
	Ko	otaro Satoh, presiding
9:45	3D04	Development of degradable copolymers from N-vinylamides via radical ring-opening copolymerization with 2-methylene-1,3-dioxepane <u>Mukmin Sapto Pamungkas,</u> Tsuyoshi Ando,Hiroharu Ajiro
10:00	3D05	Control of Depolymerization of Vinyl Polymers Triggered by C-H Bond Activation via HAT Reaction Masaya Kinugawa, Makoto Ouchi

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS "English Session"

Eriko Sato, presiding

10:15 3D06 Exploitation of Hydrogen Bonding via Janus Guanine-Cytosine Base Monomers: Block Copolymer Self-Assembly and Film Formation.

Per Zetterlund

Room E

Tue. Sep 16

S1. Covalent Bond Controls and Functional Polymers for Sustainability

11:20 1ESO Introductory Remarks S1

Yasuhiro Kohsaka, Yuichiro Kobayashi

Yuichiro Kobayashi, presiding

11:30	1E11	Development of Highly Active Heterogeneous Catalysts for Efficient Plastic Chemical Recycling Sho Yamaguchi
	•	rsuyoshi Nishikawa, presiding
13:00	1E13	Main chain cleavage of persistent plastics for the formation of organic raw materials <u>Yasunori Minami</u> ,Shunsuke Tsuyuki,Hayato Ishikawa,Kazuhiko Sato,Masaru Yoshida
13:30	1E15	Acid-promoted depolymerization of poly(hydroxyurethane)s to five-membered cyclic carbonates and amines <u>Yasuyuki Mori</u> ,Sho Morinaga,Takehiro Kawauchi,Yoshio Furusho
14:00	1E17	Polymer Functionalization through Main-Chain Claisen Rearrangement <u>Yuki Kodama</u> ,Yasuaki Kobayashi,Tomohiro Kubo,Kotaro Satoh
	•	Yukiya Kitayama, presiding
14:30	1E19	Synthesis of bundled polymers using MOFs <u>Yuki Kametani</u> ,Takashi Uemura
15:00	1E21	Polymer Synthesis and Functions Based on Designability and Transformability of Boron Substituents <u>Tsuyoshi Nishikawa</u> , Makoto Ouchi
]	Mineto Uchiyama, presiding
15:30	1E23	Sequence and Degradability Control on Polyurethane Based on AB-Type Monomer <u>Yosuke Akae</u> ,Patrick Theato
16:00	1E25	Synthesis of cyclic-polymer-free telechelic polymers by means of non-stoichiometric reversible polycondensation <u>Takayoshi KATOH</u> ,Nao KOBAYASHI,Reo YAMATO,Tomoya SUZUKI,Yoshihiro OHTA,Tsutomu YOKOZAWA
16:30	1E27	Synthesis and properties of fluorene-containing polycyclopentenes via ring-opening metathesis polymerization. Shota Kihara, Akane Nakajima, Yoshiya Ota, Shin-ichi Matsuoka
	7	Yuki Kametani, presiding
17:00	1E29	Kinetic Model for Radical Ring-Opening Polymerization of Asymmetrical Five-Membered Cyclic Ketene Acetals <u>Shinnosuke Nishimura</u> , Marina Uryu, Ryosuke Kanai, Tomoyuki Koga
17:30	1E31	Dual Control of Molecular Weight and Tacticity in Proton Transfer Anionic Polymerization of Various Acrylic Monomers by Design of Countercations <u>Katsutoshi SAGAWA</u> , Hironobu WATANABE, Mineto UCHIYAMA, Masami KAMIGAITO
18:00	1E33	Cascade Radical Polymerization Involving Two-Step Isomerization Reactions: Vinyl Monomer Design Leading to Polyamide Syntheses <u>Keita Kuroda</u> , Makoto Ouchi

S1. Covalent Bond Controls and Functional Polymers for Sustainability

	S	Shintaro Nakagawa, presiding
9:00	2E01	Photocontrol of crystallinity by copolymerization with thermally bistable molecular photoswitches <u>Naoki Kaneda</u> , Keiichi Imato, Yousuke Ooyama
9:30	2E03	Development of photoreversible silicone elastomers that enables visible and UV light-triggered transformation of network structures. Hiroshi Okamoto, Atsushi Sogabe, Satoshi Honda
10:00	2E05	Morphologically functionalized polymer particles synthesized by interfacial photoreaction <u>Yukiya Kitayama</u> , Yu Takahashi, Moeka Ogawa, Atsushi Harada
	8	Shogo Nobukawa, presiding
10:30	2E07	Covalent bond control of adhesive interfaces by thermo/photoresponsive molecular layers <u>Miho Aizawa</u> ,Haruhisa Akiyama,Yoko Matsuzawa,Atsushi Shishido
11:00	2E09	Spatial Analysis of Morphological Changes during Photodegradation and Thermal Degradation of Polyolefins <u>Takumitsu Kida</u> ,Kento Kitamura,Hiroki Takeshita,Katsuhisa Tokumitsu
11:30	2E11	An application of a photo-responsive material toward hardness tactile modulation devices <u>Satoru Ohisa</u> ,Genichi Motomura,Yoshihide Fujisaki,Norihiko Ishii,Nobuhiro Kinoshita,Kei Hagiwara,Satoshi Honda
	A	Akira Takahashi, presiding
13:00	2E13	Development of foldable shape-memory polymers based on reversible bonds originating from dipole-dipole interaction of cyclic carbonate groups <u>Bungo Ochiai</u> ,Tetta Seki
13:30	2E15	Self-healing and recycling behavior of polydithiourethanes containing self-catalytic monomers <u>Tsubasa Sakiyama</u> , Yoshiaki Yoshida
14:00	2E17	Development of polydithiourethanes with reversible crosslinking moieties based on hydrogen bonding and dynamic covalent bonding Yoshida , Tsubasa Sakiyama, Ririka Ota
	7	Yoshiaki Yoshida, presiding
14:30	2E19	Reversible boration of triethanolamine to induce variation of thermal and hydration properties of polymers <u>Akira Takahashi</u> ,Hideyuki Otsuka
15:00	2E21	Improvement of mechanical performance of polypropylene and its blend using boronic acid-crosslinked polymer additive <u>Kazuki Shimizu</u> ,Ryo Tanaka,Yuushou Nakayama,Takeshi Shiono,Shin-ichi Kihara,Hiroyuki Koga
15:30	2E23	Toughening of glassy polymer films with dynamical crosslinks and hot-stretching Shogo Nobukawa,Ryo Yaguchi,Katsuhiro Inomata

Yosuke Akae, presiding

16:00	2E25	Controlling mechanical properties of elastomer by a combination of static and dynamic crosslinks Zheng yuan Liu, Shintaro Nakagawa, Kanyou Shin, Fumito Yatsuyanagi, Noriyoshi Oono, Naoko Yoshie
16:30	2E27	Biomass Derived 2-Pyrone-4,6-dicarboxylic Acid (PDC)-Based Sustainable Vitrimers <u>Puhup Puneet, Yijie Jin, Isobe Atsushi, Fujita Masaya, Araki</u> Takuma, Suzuki Yuzo, Otsuka Yuichiro, Kamimura Naofumi, Masai Eiji, Hayashi Mikihiro, Michinobu Tsuyoshi
17:00	2E29	Completely natural and biodegradable hardcoatings with a pencil hardness of H10 Olaf Karthaus, Taiyo Nagai, Toma Furukawa, Yoshihiko Omura, Leonard Genin

Thu. Sep 18

S1. Covalent Bond Controls and Functional Polymers for Sustainability

	Y	asuhiro Kohsaka, presiding
9:00	3E01	Controlling the physical properties of self-healing cholesteric liquid crystalline vitrimers by molecular design of cellulose derivatives <u>Naoto Iwata</u> , Yu Sotoyama, Seiichi Furumi
9:30	3E03	Bond exchange-triggered topology changes in vitrimer-like material <u>Ryota Onishi</u> ,Mikihiro Hayashi,Hiroshi Sasaki
10:00	3E05	Effect of Anionic Species in Network Structures on Physical Properties of Poly(Ionic Liquid)s-based Vitrimers <u>Hikari Tsunekawa</u> ,Atsushi Matsumoto,Yuya Iida,Tsutomu Ono,Takaichi Watanabe
	Т	akumitsu Kida, presiding
10:30	3E07	Elucidation of Percolation Mechanism in Transient Networks Using Diffusing-Wave Spectroscopy <u>Shota Michida</u> ,Tetsuharu Narita,Mitsuru Naito,Ung-il Chung,Takuya Katashima
11:00	3E09	Molecular Dynamics Study of Sliding Relaxation in Slide-Ring Gels Haru Shinohara, Takeyoshi Masumoto, Kosuke Aomura, <u>Yusuke Yasuda</u> , Kazushi Fujimoto, Koichi Mayumi, Hideaki Yokoyama, Kohzo Ito
11:30	3E11	Thermomechanical characteristics of Epoxy Vitrimers Using Molecular Dynamics Simulations <u>Tomoya Uyama</u> ,Naoki Kishimoto,Yutaka Oya,Jun Koyanagi

Room F

Tue. Sep 16

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Naoya Torikai, presi	ding
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10:30	1F07	Design of Gels by Crosslinking of Star Polymer Containing Hydrophobic Units towards Reinforcement and Swelling Behavior Control <u>Mako Harada</u> ,Shohei Ida,Shokyoku Kanaoka
10:45	1F08	One-pot synthesis and characterization of amphiphilic gels with micrometer-scale phase-separated structures <u>Kanta Nakamoto</u> ,Shohei Ida,Takumitsu Kida,Naohiro Nakai,Masatoshi Oyama,Keiji Nakajima,Shimon Matsumoto,Shokyoku Kanaoka
11:00	1F09	High Order Structure Formation and Thermal Properties of Epoxy Resins with Liquid-Crystalline Diamines <u>Rika Marui</u> ,Kan Hatakeyama,Yuta Nabae,Teruaki Hayakawa
	SI	nokyoku Kanaoka, presiding
11:15	1F10	Catalytic performance and physical properties of gelimmobilized molecular catalyst prepared through semiconductor-photocatalyzed C-H activation of PEG derivatives in water. <u>Yuji Sakai</u> ,Shogo Mori,Mineto Uchiyama,Masami Kamigaito,Naoya Torikai,Susumu Saito
11:30	1F11	Swelling Behavior and Ionic Conductivity for Polymerized Ionic-Liquid-Based Gels Haruki Izutsu, Atsushi Matsumoto, Osamu Urakawa, Tadashi Inoue

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES "English Session"

Shokyoku Kanaoka, presiding

11:45 1F12 Advances in creating thermoresponsive hydrogels with controlled structures using living cationic polymerization and an orthogonal crosslinking reaction

<u>Kira Landenberger</u>, Yoichi Tokunaga, Hiroaki Kato

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Yukikazu Takeoka, presiding

13:00	1F13	Development of ethylene/styrene/butadiene terpolymers strengthened in response to CO2 <u>Kota Ohata</u> ,Shojiro Kaita,Kei Hashimoto,Shoichi Kutsumizu,Yohei Miwa
13:15	1F14	Development of chemically recyclable thermoplastic silicone elastomers crosslinked with CO2 <u>Koji Natsume</u> ,Kei Hashimoto,Shoichi Kutsumizu,Yohei Miwa
13:30	1F15	Optimization of Molecular Structure for the Polymer Reinforced with the Aid of CO2 Gas <u>Kazuma Okada</u> ,Hayato Nakamura,Kei Hashimoto,Shoichi Kutsumizu,Yohei Miwa
14:00	1F17	Toughness and adhesive properties of cyanate ester thermosets modified with epoxy silsesquioxanes with different alkyl side chain

14:15	1F18	Koji Kawahara, Miyuki Harada Development of thermal latent curing agents for epoxy resins by N-oxidation of aminopyridines Yukai Ito, Daisuke Aoki, Koji Arimitsu
	Da	aisuke Aoki, presiding
14:30	1F19	Regulation of Structural Heterogeneity in Epoxy Product via One-time Bond Exchange <u>Kazuma Kumamoto</u> ,Atsuomi Shundo,Satoru Yamamoto,Keiji Tanaka
B. POLYI	MER PHYS	SICS: STRUCTURE AND PROPERTIES "English Session"

Daisuke Aoki, presiding

14:45 1F20 Tuning toughness of model network elastomers through molecular friction QIYUE CUI, Naoko Yoshie, Shintaro Nakagawa

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Daisuke Aoki, presiding

15:00	1F21	Structure-Property Relationship in Thermosetting Polymers: A Molecular Dynamics Approach <u>Haruki Yamada</u> ,Yutaka Oya,Zyun Koyanagi,Ryuichi Hirayama
15:15	1F22	Predicting the tension of single polymer chains that form a highly-stretched polymer network <u>Tsutomu Indei</u> , Takahiro Matsuda, Tasuku Nakajima, Yukiko Takahashi, Tatiana B. Kouznetsova, Michael Rubinstein, Stephen L. Craig, Jian Ping Gong
15:30	1F23	Elucidation of the effect of uncross linked chains on the physical properties of biocompatible polymer gels Nanaho Ozawa, Yuka Hasegawa, Xiang Li, Taiki Hoshino, Yukikazu Takeoka
	Т	sutomu Indei, presiding
15:45	1F24	Correlation Analysis of Electronic States and Hydrogen Bonding during the Drying Process of PVA Hydrogel Nami Ueno,Ichiro Tanabe
16:00	1F25	In situ X-ray scattering analysis of poly (vinyl alcohol) hydrogels under various freezing-thawing conditions Yoshiyasu Nagakawa, Yu Oku
16:15	1F26	Evaluation of physical properties of topological gels with movable cross-linking "spaces" obtained by molecular net and penetrating polymerization <u>Hiroaki Ogawa</u> , Yusuke Taoka, Yuichi Ohya
16:30	1F27	Mechanically Induced Selective Exchange of Stress- Concentrated Chains in Polymer Gels <u>Haruna Sakurai</u> ,Takamasa Sakai
16:45	1F28	In Situ Electron Microscopy Observation of Deformation Behaviors of High-Strength Ethylene-based Thermoplastic Elastomers

Tomoki Kayama, Shusuke Kanomi, Tomohiro
Miyata, Takumitsu Kida, Hiroki Takeshita, Shigenaga
Takano, Shojiro Kaita, Hiroshi Jinnai

Nami Ueno, presiding

17:00	1F29	Quantifying Degradation Process of Physical Gels <u>Yui Suemura</u> ,Masashi Ohira,Takashi Yasuda,Xiang Li
17:30	1F31	Microscopic Origin of the Mullins Effect in Filler-reinforced Rubber Revealed by in situ Transmission Electron Microscopy <u>Soichiro Monji</u> ,Tomohiro Miyata,Takahiro Ohkuma,Hiroshi Jinnai
18:00	1F33	Osmotic pressure-based quantification of network inhomogeneity in polymer gels <u>Ruka Ito</u> ,Naoyuki Sakumichi,Tsukuru Masuda,Takamasa Sakai

Wed. Sep 17

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Yuma Morimitsu, presiding

9:00	2F01	Molecular Dynamics Simulation for Evaluating Microscopic Damage in Thermosetting Crosslinked Polymers <u>Yutaka Oya</u> ,Maruri Takamura,Jun Koyanagi
9:30	2F03	Consistency between the theory of gelation and the linear viscoelastic theory <u>Kazumi Suematsu</u>
10:00	2F05	Molecular simulation of effects of crosslinker structure and monomer reactivity ratio on network structure of radical copolymerization gels <u>Tsutomu Furuya</u> ,Tsuyoshi Koga

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES "English Session"

Tsutomu Furuya, presiding

10:30	2F07	Experimental verification of elastic modulus theory through
		Tetra-PEG DMF gels
		<u>Haoyu Wang</u> ,Takashi Yasuda,Xiang Li

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Tsutomu Furuya, presiding

11:30	2F11	Network Topological Transformation for Controlling Linear
		Elasticity in Polymer Gels
		Takashi Yasuda,Ryo Ohtsuki,Xiang Li,Naoyuki
		Sakumichi, Takamasa Sakai

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES "English Session"

Takamasa Sakai, presiding

13:00 2F13 Mechanic and Structural Properties in Super-Homogeneous Strain-induced Crystallization Gel
Xiaoyuan Wang,Xiang Li,Masashi Ohira,Takashi
Yasuda,Jingyun Zhao

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Takamasa Sakai, presiding

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13:30	2F15	Improved nano structural analysis of multi-component systems by contrast variation small angle neutron scattering <u>Koichi Mayumi</u> ,Tatsuro Oda,Shinya Miyajima,Ippei Obayashi,Kazuaki Tanaka
14:00	2F17	Structural design and characterization of a CO2 sensor based on fluorescent nanogels with tunable sensitive concentration range via controlled amine introduction Tomoka Kimura , Luxia Cui, Ryutaro Honda, Toshikazu Ono, Yu Hoshino
	S	Seiichi Kawahara, presiding
14:30	2F19	Synthesis and properties of UV-curable hyperbranched polysiloxanes with low refractive index (n<1.4) Yuya Nakashima, Hiroto Kudo
15:00	2F21	Effect of Curing Reaction Modes on the Structural Heterogeneity and Mechanical Properties of Epoxy Products <u>Atsuomi Shundo</u> ,Kotaro Suzuki,Satoru Yamamoto,keiji Tanaka
15:30	2F23	Impact of crosslinker hydrophobicity on the nanostructure of thermoresponsive microgels <u>Yuichiro Nishizawa</u> ,Kentaro Yamanaka,Takayuki Uchihashi,Daisuke Suzuki
	I	Iiroto Kudo, presiding
16:00	2F25	Design and Mechanical Properties of Hydrogels with Evenly Distributed Nanodomain Structure <u>Shohei Ida</u> ,Koki Kimura,Haruyuki Nagasaki,Kaho Harada,Hayato Wakuda,Shokyoku Kanaoka
16:30	2F27	Controlling nanoparticle diffusion by the side chain length of hydrogel <u>Keita Namba</u> ,Yuka Wakayama,Mitsuhiro Shibayama,Takuma Kureha
17:00	2F29	Effect of Proteins on Vulcanization, Structure and Mechanical Properties of Natural Rubber Seiichi Kawahara, Yoshimasa Yamamoto

Thu. Sep 18

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Akifumi Kawamura, presiding

9:00	3F01	Fabrication of freestanding gelatin thin films by gelation and drying of a liquid foam film Miwa Ohniwa,Izumi Ichinose, <u>Sadaki Samitsu</u>
9:30	3F03	Segmental dynamics of epoxy resins cured with a phenolic harder <u>Takeshi Kakara</u> ,Yasuyuki Shudo,Atsushi Izumi,Atsuomi Shundo,Keiji Tanaka
10:00	3F05	Can the molecular net gels with topological structures be a new standard of gel materials? <u>Yuichi Ohya</u> ,Hiroaki Ogawa,Yamato Fujita,Yusuke Taoka

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES "English Session"

Sadaki Samitsu, presiding

10:30 3F07 The entropy-driven microphase separation of hydrogels. <u>Dong Shi, Takayuki Nonoyama, Jian Ping Gong</u>

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Sadaki Samitsu, presiding

11:00	3F09	Revisiting and advancing temperature-responsive polymers <u>Takashi Miyata</u> ,Ryo Mashiba,Shuta Hagiwara,Akifumi Kawamura
11:30	3F11	Tensile properties of acrylic IPN elastomer consisting of interpenetrating polymer networks with the same chemical structure Soma Higuchi, Shogo Nobukawa, <u>Katsuhiro Inomata</u>

Room G

Tue. Sep 16

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES "English Session"

Takashi Sasaki, presiding

10:15 1G06 A Comparative Study on Degradation of Thin Films of Poly(L-lactic acid) and Poly(L-lactic acid)/Poly(D-lactic acid) Blend in Seawater

<u>Thi Khanh Van Khuat</u>,Nana Tsuji,Ryu Miyajima,Kazuki Imai,Hiroyasu Masunaga,An Yingjun,Atsushi Takahara,Sono Sasaki

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Takashi Sasaki, presiding

10:30	1G07	Thickness effect on melt-isothermal crystallization kinetics of biodegradable polyester thin films Ryu Miyajima , Nana Tsuji, Kazuki Imai, Thi Khanh Van Khuat, Hiroto Osakaki, Keito Shimakawa, Hiroyasu Masunaga, Sono Sasaki
10:45	1G08	Analysis of the Localization of Dispersants at the PDMS/Alumina Interface Using Neutron Reflectometry Seisuke Inada, Kanmuri Shuhei, Keiichi Ishida, Hiroya Ishida, Naoya Torikai
]	Hiroyasu Masunaga, presiding
11:00	1G09	Gas Sorption Behavior of Partially Fluorinated Polynorbornenes in Thin Films <u>Daisuke Kawaguchi</u> ,Makoto Uno,Satoru Hommura,Takashi Okazoe
11:15	1G10	Segmental mobility gradient near the interfaces of polystyrene predicted by a dynamically correlated network model <u>Takashi Sasaki</u> ,Kohki Okano,Natsuha Miyata
11:30	1G11	Fabrication of multilayer thin-film drug release devices using polyvinyl alcohol as the controlled-release layer <u>Mako Ishida</u> ,Shinji Takeoka
11:45	1G12	Depth Dependence of Chemical Composition of Epoxy Resins near the Copper Interface <u>Shintaro Saeki</u> ,Tatsuki Abe,Keiji Tanaka
	•	Yukari Oda, presiding
13:00	1G13	Morphology of Polystyrene Chains Spun onto a Solid Substrate <u>Reiki Eto</u> ,Yuma Morimitsu,Keiji Tanaka
13:15	1G14	Effects of Interfacial Interactions on the Dynamics of Polystyrene Chains Adsorbed on a Substrate Shuji Morita, Yuma Morimitsu, Shiho Tanizaki, Satoru Yamamoto, Kotaro Satoh, Keiji Tanaka
13:30	1G15	Effect of Interfacial Roughness on Glass Transition Behavior of Polystyrene Thin Films <u>Taketo Nakasuka</u> ,Yuma Morimitsu,Keiji Tanaka
13:45	1G16	Local Structural Analysis of Filler Interfaces Buried in Epoxy Composites by Atomic Force Microscope-Infrared Spectroscopy <u>Atsushi Tokunaga</u> , Yuma Morimitsu, Atsuomi Shundo, Keiji Tanaka
14:00	1G17	Local Orientational Analysis of Epoxy Resins at Adhesion Interfaces <u>Koyu Eto</u> ,Tatsuki Abe,Keiji Tanaka
	2	Xiaobin Liang, presiding
14:15	1G18	Influence of Dispersants on the Viscosity of Alumina-PDMS Composite and the Interface Structure on Sapphire Substrate Shuhei Kanmuri, Keiichi Ishida, Seisuke Inada, Hiroya Ishida, Naoya Torikai
14:30	1G19	Evaluation of Nano-structural Changes in Poly(butylene succinate-co-adipate) by Seawater Immersion Treatment Nana Tsuji, Hiroto Osakaki, Keito Shimakawa, Ryu Miyajima, Thi Khanh Van Khuat, Kazuki Imai, Hiroyasu Masunaga, Yingjun An, Atsushi Takahara, Sono Sasaki

14:45	1G20	Effect of Primary Structure and Thermal Annealing on Surface Orientation of Amphiphilic Block Copolymers <u>Hayate Narumi</u> , Yukari Oda
15:00	1G21	Effect of End-group Structure on Construction of Hydrophilic Surfaces on Amphiphilic Copolymer Films <u>kako kawase</u> ,yukari oda

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES "English Session"

Xiaobin Liang, presiding

15:15 1G22 Low-Temperature Annealing of PS-b-PMMA-Based Block
Copolymers Incorporating PnBMA for Perpendicular
Microdomain Orientation in Thin Films
Hsi Chih Wang, Takehiro Seshimo, Takahiro Dazai, Kazufumi
Sato, Kan Hatakeyama-Sato, Yuta Nabae, Teruaki Hayakawa

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Masayuki Wakioka, presiding

15:30	1G23	Thermal History Dependence of Residual Stress at Adhesive Interface of Poly(ether ether ketone) <u>Shota Yamauchi</u> , Takuya Matsumoto, Takashi Nishino
15:45	1G24	Swelling behavior and stability of a polystyrene adsorbed layer and a homologue thin film on it under different solvent vapor Ryou Tsurui, Yoshihisa Fujii, Naoya Torikai
16:00	1G25	Understanding lithium-ion transport mechanism in alkyl sulfonated polyimides at cathode-polymer-electrolyte interfaces via multiscale modelling Attila Taborosi , Kentaro Aoki, Nobuyuki Zettsu, Michihisa Koyama, Yuki Nagao
16:30	1G27	PFAS-Free Hydrophobic and Oleophobic Bio-Based Polyurethane Coatings <u>Yoshihiko Shiraki</u>
	Na	oya Torikai, presiding
17:00	1G29	Adhesion of polyisobutylene polyurethane to polypropylene by diffusion <u>Yoshihiko Shiraki</u> ,Takehito Seki,Masayuki Wakioka
17:30	1G31	Study on the Physical Properties of Cononsolvency Polymers Using Nanofishing <u>Haruka Mori</u> ,Shiho Tanizaki,Xiaobin Liang,Kotaro Satoh,Ken Nakajima
18:00	1G33	Adsorption of amphiphilic random copolymers from solution onto solid substrates <u>Takahiro Sato</u>

Wed. Sep 17

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Kosuke Okeyoshi, presiding

		, r , r , r , r , r , r , r , r , r , r
9:00	2G01	Machine learning model that predicts the wettability for water and an organic solvent and surface free energy of polymer surfaces <u>Tsukuru Masuda</u> ,Shunya Sudo,Madoka Takai
9:30	2G03	Mechanical Properties of Single Poly(ethylene glycol) Chains by Nanofishing Method 2 <u>Takaki Kohama</u> ,Xiaobin Liang,Ken Nakajima
10:00	2G05	Multi-scale CT observation of the fracture process at the Al- adhesive interface <u>Takanori Itoh</u> ,Norio Saito,Masayuki Inaba,Chulho Song,Emi Mukai,Takashi Kumamoto,Akihisa Takeuchi,Masayuki Uesugi,Yuki Sada,Hiro Fujihara,Hiroyuki Toda
		Xiaobin Liang, presiding
10:30	2G07	Buried Interfacial Structures Analysis in Cellulose-Reinforced Styrene-Butadiene Rubber by Sum-frequency Generation Spectroscopy <u>Tatsuki Abe</u> ,Ozawa Ryosuke,Tomofumi Maekawa,Satoru Yamamoto,Keiji Tanaka
11:00	2G09	Interdiffusion and Adhesion Properties of Polymers with Reversible Bonds <u>Kenji Yamaoka</u> ,Iori Ogasa,Takuma Wada,Yoshinori Takashima
11:30	2G11	Effect on Antifouling Properties of the Hydrated State of Polymer with Surface Hydrophilization Shintaro Yasuda, Yuka Ikemoto, Shohei Shiomoto, Hideki Seto, Masaru Tanaka, Yoshihisa Fujii, Naoya Torikai
		Jun Matsui, presiding
13:00	2G13	Assembly of tough elastomer microparticles at the air/water interface <u>Yuma Sasaki,</u> Yuichiro Nishizawa,Natsuki Watanabe,Uchihashi Takayuki,Daisuke Suzuki
13:30	2G15	Visualization and Analysis of In-Plane Diffusion in a Polystyrene Monolayer <u>Yuma Morimitsu,</u> Keiji Tanaka
14:00	2G17	New developments in Langmuir monolayers of fluorinated polymers spread from solid tablets <u>Itsuki Fujii</u> ,Naoto Yokokawa,Atsuhiro Fujimori
14:15	2G18	Annealing effect on occurrence of structural color in formation of multi-particle layers using titanium dioxide modified with long-chain dienoate Shoma Sakamoto , Ayane Yamazaki, Atsuhiro Fujimori
		Masaya Mitsuishi, presiding
14:30	2G19	Structure and properties of fluorinated polymer-based composites containing cellulose nanofibers before and after TEMPO-oxidation

15:00	2G21	Quantitative analysis of cyclic poly(ethylene glycol) adsorption phenomena on gold surfaces <u>Yuki Maruyama</u> ,Watanabe Tomohisa,Takuya Yamamoto
15:15	2G22	Physisorption of Cyclic Polyethylene Glycol on Nanoparticles and Catalytic Application <u>Mayu Kakizaki</u> , Takuya Yamamoto
15:30	2G23	Construction of Anisotropic Self-assembly Induced by Crystallization of Hydrophobic Peptoids; Phase Transition and Morphology Control Renya Fukuda, Yota Okuno, Tomoki Nishimura, Yasuhiko Iwasaki
15:45	2G24	Dynamic deformation of evaporation interface during the drying process of aqueous polymer solution Reina Hagiwara, Kosuke Okeyoshi
	A	Atsuhiro Fujimori, presiding
16:00	2G25	Control of the cloud point in LCST-type phase transitions of polymethacrylates containing gallic acid with oxyethylene chains in the side group Keigo Urushidate , Rena Sakai, Yasuteru Mawatari
16:15	2G26	Exfoliation of Sheet-like MOFs by Anisotropic Polymerization Reaction in Pillared Layer MOFs <u>Takumi Sato</u> ,Kenta Kokado,Shizuka Anan
16:30	2G27	Improving the elasticity of silicone particles by controlling molecular structure <u>Reina Nakamoto</u> ,Hyota Nishi,Yuya Takeuchi,Shinya Katsube,Nozomu Suzuki,Toyoko Suzuki,Hideto Minami
16:45	2G28	Photo-Oxidized Ultrathin Film Formation of Amphiphilic Cyclic Siloxanes Using Activated Ester <u>Chinami Habu</u> ,Yuki Irie,Huie Zhu,Aki Kashiwazaki,Masaya Mitsuishi
17:00	2G29	Microphase-separated Structures of poly(DOPAm-b-protected DOPAm) for Sequential Integration of Heterogeneous Materials <u>Mizuki Ohke</u> ,Ryoichi Akaishi,Shusaku Nagano,Manabu Ishizaki,Masato Kurihara,Shotaro Nishitsuji,Hinako Ebe,Jun Matsui

Thu. Sep 18

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Takuya Yamamoto, presiding

9:00 3G01 Fabrication of surface skinless porous polymer particles using nanocellulose/cosurfactant system

<u>Takaki Kishida, Koichiro Ishida, Yoshinobu Tsujii</u>

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES "English Session"

Takuya Yamamoto, presiding

9:15	3G02	Synthesis of cyclic polymers by dynamic bond formation of
		phenylboronic acid and a 1,2-diol and topology investigation
		<u>Tojo ANDRIANALY</u> ,Tsuyoshi ANDO,Hiroharu AJIRO

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

		Takuya Yamamoto, presiding
9:30	3G03	Controlled grafting density of zwitterionic polymer brushes on polymer particles with antifouling properties Ryota Niwa , Daisuke Aoki, Tatsuo Taniguchi
10:00	3G05	Visualization and Quantification of Compression-Stress Distribution by Three-Dimensional Composite Device of Layered Polydiacetylene and Transparent Resin <u>Hazuki Yamanaka</u> , Hiroaki Imai, Syuji Fujii, Yuya Oaki
		Yoshinobu Tsujii, presiding
10:30	3G07	Dispersion Stabilization of Gold Nanoparticles using Bicyclic Poly(Ethylene Glycol) <u>Jo Tazuke</u> ,Yuto Ohkuma,Tomohisa Watanabe,Takuya Yamamoto
11:00	3G09	Adsorption of Cyclic Poly(Ethylene Glycol) onto Gold Nanoparticles Formed by Various Reducing Agents <u>Makoto Hikichi</u> ,Takuya Yamamoto
11:30	3G11	Self-organized structure control of statistical copolymers based on nano-phase separation Mao Kikuchi,Hinako Ebe,Katsuhiro Yamamoto,Shotaro Nishitsuji,Yuya Ishizaki,Shusaku Nagano, <u>Jun Matsui</u>
		Shotaro Nishitsuji, presiding
13:00	3G13	Molecular Weight-Biased Adsorption of Amino-Modified Silicone to Titanium Dioxide Particles and its Effect on the Dispersibility <u>Ryushi Fukuhara</u> , Motoyuki Iijima
13:30	3G15	Precise supramolecular 2D self-assembly of cyclic molecules and localized incorporation of guest molecules <u>Shuntaro Uenuma</u> ,Kyosuke Goyo,Yusuke Yasuda,Kazushi Fujimoto,Riku Kanno,Sadaki Samitsu,Takashi Nakanishi,Hideaki Yokoyama,Kohzo Ito
14:00	3G17	New method for the synthesis of membranes using unconventional electrochemical method <u>Yoshimitsu Itoh</u> , Yudai Yokoyama

Room H

Tue. Sep 16

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Shoichi Kutsumizu, presiding

10:45	1H08	Staining of polymer blends and silica composites with
		ruthenium tetroxide Aya Kasahara,Teruhiko Saito,Sachiko Inazato,Emiko Igaki
11:00	1H09	Integrated Analysis of Structural Relaxation Based on
		Viscoelastic and Dielectric Responses in SWCNT Composite Films
		Hiroaki Nobuoka,Osamu Urakawa,Tadashi Inoue
11:15	1H10	Phase Stability in Systems Containing Block Copolymers
		under Pressure <u>Hiroki Degaki</u> ,Ikuo Taniguchi,Shigeru Deguchi,Tsuyoshi Koga
11:30	1H11	Effects of phase-separated structure and aggregation state of fumed silica on viscoelastic properties for incompatible polymer blends
		Furiku Maruyama,Yoshihisa Fujii,Naoya Torikai
11:45	1H12	Deformation Analyses of Nylon 610 Composites with Recycled Carbon Fibers through Raman Measurements and X-ray CT Observation <u>Takuya Matsumoto</u> , Junpei Yamazaki, Takashi Nishino
		Osamu Urakawa, presiding
13:00	1H13	Proposal for a potentially promising application of
13.00	11113	thermochromic polymer blends utilizing poly(n-alkyl acrylate) based on its transition temperature control <u>Takayuki Hirai</u> ,Konomi Yamashita,Ko Kugimoto,Norihiro Mizoshita
13:30	1H15	Analyses of hierarchical structures in SBR rubber silicacontaining SBR treated with various silane coupling agents by using contrast-variation SANS Yohei Nakanishi, Satoshi Sawada, Hiroaki Kondo, Motoki Shibata, Tsukasa Miyazaki, Ryuhei Motokawa, Takayuki Kumada, Kazuki Mita, Katsuhiro Yamamoto, Mikihito Takenaka
14:00	1H17	Composite of Polyethylene and Polyacrylonitrile Synthesized by Vapor Phase Polymerization in Free Volume Space <u>shunsuke Yamamura</u> ,Hiroaki Imai,Yuya Oaki
14:30	1H19	Spatial Distribution Analysis of Stress Softening Effect under Non-uniform Deformation of Soft-nanocomposites Yuuki Tokudome,Mai Thanh-Tam,Kenji Urayama
		Ryohei Ishige, presiding
15:00	1H21	Investigation of Diffusion and Re-orientation in Iodine/Nylon 6 Complex [27]; Hydration of Simple Iodine Depending on Aqueous Solutes. <u>Akio Kawaguchi</u>
15:30	1H23	Relationship between phase transitions and the regularity of phase-segregated nanostructures in amphiphilic liquid- crystalline diblock copolymers <u>Sadayuki Asaoka</u> ,Norihiko Ishii,Hidemi Tsunemine,Shinichi Sakurai
15:45	1H24	Viscoelastic properties and functionalization to adhesives of thermotropic cubic phase materials Manami HARAYAMA, Sho NAKAMURA, Yohei MIWA, Kei HASHIMOTO, Taro UDAGAWA, Yasuhisa YAMAMURA, Kazuya SAITO, Shoichi KUTSUMIZU

16:00	1H25	Correlation between Fingerprint Texture Modulation and Mechanical Response in Cholesteric Liquid Crystal Elastomers <u>Koudai Tanino</u> , Tsutomu Furuya, Tsuyoshi Koga, Kenji Urayama
	I	Kenji Urayama, presiding
16:30	1H27	Vertical alignment control of rigid polyimides with self- assembling photo-crosslinkable termini <u>Kazuki Ooyama</u> ,Shohei Hara,Ryohei Ishige
17:00	1H29	Helical Conformation of Polyimide prepared from Liquid Crystalline Precursor with Chiral Elimination group <u>Kodai Yamamoto</u> ,Shunsuke Morii,Hinari Sakai,Tomoyasu Hirai,Ryohei Ishige
17:30	1H31	Correlation between Higher-Order Structure and Thermal Diffusivity in Liquid Crystalline Rigid Polymer <u>Tomohiro Kojima</u> ,Kazuki Oyama,Ryohei Ishige
18:00	1H33	Two kinds of chiral network structures of thermotropic bicontinuous cubic phases Shoichi Kutsumizu, Toshihiko Oka, Yasuhisa Yamamura, Kazuya Saito, Takumi Hayashi, Ryoki Ohno, Kei Hashimoto, Yohei Miwa

Wed. Sep 17

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

	Tomohiro Miyata, presiding				
9:15	2H02	Chiroptical properties of poly(diphenylacetylene)s bearing mandelate pendants <u>Rikuya Aoki,</u> Abilesh Kumar Ravikumar,Tatsuya Nishimura,Katsuhiro Maeda			
9:30	2Н03	Investigation of structure transition of poly(alpha-L-glutamic acid) single chain using atomic force microscopy <u>Shota Suga</u> ,Xiaobin Liang,Ken Nakajima,Hidemine Furuya			
10:00	2H05	Simultaneous measurement of tensile testing and small angle neutron scattering on Nafion membranes under humid conditions <u>Shin-ichi Takata</u> ,Shigeki Uduki			
10:30	2H07	Synthesis and structural analysis of well-defined star-shaped polysulfides via living insert reaction with carbamic acid thioester and thiirane. Ryouta Tsutsui, Hiroto Kudo, Akiyuki Ryoki			
	s	hin-ichi Takata, presiding			
11:15	2H10	Effect of high-pressure press on mechanical properties and crystalline structure of polybutylene succinate <u>Hiroki Miyakawa</u> ,Shotaro Nishitsuji,Hiroshi Ito,Atsusi Kusuno			
11:30	2H11	Comparison of the Melting Point of Polymer Crystals with Fully Extended Chains and the Equilibrium Melting Temperature Estimated by Linear and Nonlinear Hoffman- Weeks Extrapolation Shota Usukawa, Akikazu Matsumoto, Yasuhito Suzuki			

11:45	2H12	Crystal morphologies and molecular chain orientations at isotactic polypropylene - dissimilar material interfaces <u>Kazuhiro Sato</u> ,Tomohiro Miyata,Shusuke Kanomi,Hiroshi Jinnai
	K	atsuhiro Yamamoto, presiding
13:00	2H13	Orientation analysis of molecular chains in amorphous regions of polyethylene using nanodiffraction imaging Mirei Abe,Shusuke Kanomi,Tomohiro Miyata,Hiroshi Jinnai
13:15	2H14	Effect of Tearing Rate on Nanostructural Changes in PBS:PBSA Blend Films during Tearing Process. <u>Kazuki Imai, Keito Shimakawa, Ryu Miyajima, Nana Tsuji, Thi Khanh Van Khuat, Hiroyasu Masunaga, Yingjun An, Atushi Takahara, Sono Sasaki</u>
13:30	2H15	Phase separation and control of copolymers with long crystalline side chains Kaito Yui, Yuuki Horiike, Takaya Terashima, Go Matsuba
13:45	2H16	Solid Solution and Higher-order Structure Evolutions of Polya-olefin and N-alkane Blends <u>Shori Goshima</u> ,Koji Nozaki
14:00	2H17	Nanoscale Correlation Analysis of Local Deformation Behavior and Material Properties in Crystalline Polymers <u>Kota Yagi</u> ,Makiko Ito,Xiaobin Liang,Ken Nakajima
	T	akahiko Kawai, presiding
14:15	2H18	Structural Analysis of Fluorinated Polymer Electrolyte Membranes by Contrast Variation Small-Angle Neutron Scattering <u>Shigeki Uzuki</u> ,Shinichi Takata
14:30	2H19	Structural Analysis of Polymers by X-ray Raman Scattering <u>Katsuhiro Yamamoto</u> , Mikihito Takenaka, Motohiro Suzuki, Skihiko Fujiwara, Naomi Kawamura, Hayashi Mikihiro
14:45	2H20	Structure evolution of Isotactic Polypropylene (iPP) into the a- form Crystals with Different Molecular Orderings <u>Shunnosuke Okimura</u> ,Naohito Urakami,Koji Nozaki
15:00	2H21	Evaluation of the mechanical properties of crystalline polymers via molecular dynamics simulation Nonoka Watanabe, Ryuichi Hiraiwa, Yutaka Oya, Jun Koyanagi
15:15	2H22	Molecular design of non-covalent cholesterol-based glasses with optical, thermal, mechanical properties <u>Yuichiro Watanabe</u> ,Kazuki Muro,Chia Hsin Cheng,Sadaki Samitsu,Takashi Kajitani,Takahito Ohmura,Kazunori Sugiyasu
	K	loji Yamada, presiding
15:30	2H23IL	Visualization of failure in polymers using aggregation- induced emission <u>Hiejima Hiejima</u>
	N	aohito Urakami, presiding
16:30	2H27	Cryogenic Oxygen Diffusion in Amorphous Polymers under Low Temperatures and the Correlation with Polymer-Chain Movement Probed by Dual-Emission Imide Compound <u>Rika Watanabe</u> , Haonan Liu, Masatoshi Tokita, Shinji Ando
17:00	2H29	Multiscale measurement of polymer crystallization from solution

Thu. Sep 18

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

		Naoko Yoshie, presiding
9:00	3H01	Minimum lactate chain length for hetero-stereocomplex formation between poly(lactate) and lactate copolymer LAHB <u>Yusuke Imai</u> ,Shinji Tanaka,Shinji Tanaka,Sangho Koh,Seiichi Taguchi
9:30	3Н03	Development of an MRI methodology for polymeric films by ex-situ solid-state NMR with needle-like ferromagnet <u>Natsuki KAWABATA</u> ,Naoki ASAKAWA
10:00	3Н05	Microphase Separation of Random/Alternating Copolymers into Nanostructured Materials <u>Takaya Terashima</u>
		Yusuke Imai, presiding
10:30	3Н07	Revealing the Deformation Behavior of High-Density Polyethylene Through In Situ Tensile Observation and Nanodiffraction Imaging Using Transmission Electron Microscopy Shusuke Kanomi, Tomohiro Miyata, Hiroshi Jinnai

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES "English Session"

Yusuke Imai, presiding

11:00 3H09 Crystallization Behavior of Polyethylene Bearing In-chain Functional Groups

Nontarin Roopsung, Yipu Lu, Kohei Takahashi, Kyoko
Nozaki, Naoko Yoshie, Shintaro Nakagawa

Room I

Tue. Sep 16

S2. Mechanics and toughening of materials across their species

12:50	1ISO	Introductory Remarks S2 <u>Tasuku Nakajima</u>
		Ken Kojio, presiding
13:00	1113	Transformation-induced plasticity of rotaxane resin <u>Kazuaki Kato</u> , Taiki Hoshino
13:30	1115	Migrating strain/stress concentrations in liquid crystal elastomers

		Shunsuke Imai,Yuki Tokudome,Thanh-Tam Mai,Yasushi Okumura,Hirotsugu Kikuchi, <u>Kenji Urayama</u>
14:00	1117	Fabrication of Multifunctional Non-Polymeric Materials by Controlling Heterogeneous Microstructure ~Metallurgical Researchers' Approach~ Shoichi Kikuchi
	Та	suku Nakajima, presiding
14:30	1119	Mechanical properties and fracture behavior in the solid state of various glassy polymer materials <u>Asae Ito</u> ,Ryohei Ippitsu,Takashi Uneyama,Yusuke Hiejima,Koh-hei Nitta,Masahiro Higuchi
15:00	1I21	Deformation behavior of polymer materials under various deformation modes based on multi-scale structure analyses Aya Fujimoto,Ayumi Hamada, <u>Ken Kojio</u>
15:30	1I23	Microscopic Failure of Fiber Reinforced Composites Kosuke Takahashi
	As	ae Ito, presiding
16:00	1I25	Silica Nanoparticle-Induced J-shaped stress-strain behavior and Toughening Mechanism in PMEA Elastomer <u>Karin Ito</u> ,Moe Sakamoto,Yuki Tokudome,Daichi Nozaki,Kenji Urayama,Yukikazu Takeoka
16:30	1I27	Guidelines for achieving high-strength adhesion between polymers and inorganic materials <u>Tomohiro Miyata</u> ,Keiichi Shirasu,Sunao Mori,Hiroshi Jinnai
	To	omoki Yasui, presiding
17:00	1I29	The strain-induced crystallization behaviors of segmented polyurethane elastomers during various deformation modes <u>Kakeru Obayashi</u> ,Ken Kojio,Kenji Urayama
17:30	1I31	Mechano-responsive behavior of supramolecular cross-linked hydrogels via stretch-induced phase separation Naoaki Ishihara, Akihide Sugawara, Yoshinori Takashima, Hiroshi Uyama
18:00	1133	Controlling Strain-Induced Crystallization in Homogeneously Crosslinked Elastomers via Crystallizability Design of Network Strands <u>Renan Sasaki</u> ,Naoko Yoshie,Shintaro Nakagawa

Wed. Sep 17

S2. Mechanics and toughening of materials across their species

9:00 2I01 Effect of environment on crack propagation of doublenetwork gels Tasuku Nakajima 9:30 2I03 TEM imaging of polymer network rupture using mechanoradical indicator Masahiro Yoshida,Ryuji Kiyama,Tasuku Nakajima,Jian Ping Gong

10:00	2105	Toughness Enhancement through Design of Heterogeneous Glass Structures <u>Kenji Shinozaki</u>
10:30	2107	Fundamental toughening landscape in soft-hard composites: insights from a minimal framework Fucheng Tian, Katsuhiko Sato, Jian Ping Gong
		Takashi Miyata, presiding
11:00	2109	Hybridization of Polysaccharides and Hydroxyapatite for the Development of High-Toughness Biomass Structural Materials Inspired by Bone Mimicry <u>Yui Okuda</u> ,Go Matsuba,Eiichi Kido,Tadashi Mizutani
11:30	2I11	Structural/Mechanical Characterization of Films Composed of Acrylic Acid Copolymerized Microparticles Haruka Minato, Hayato Suzuki, Yosuke Nishimaki, Yuji Sato, Yuichiro Nishizawa, Chan Feng-Yueh, Takayuki Uchihashi, Keita Namba, Takuma Kureha, Ikki Takahashi, Yusuke Yasuda, Kazushi Fujimoto, Daisuke Suzuki
		Yohei Miwa, presiding
13:00	2I13	Toughening of Glassy Polymers by Weak Ionic Interactions of Organic Base Counterions <u>Daisuke Aoki</u> ,Kotaro Uchiyama,Koji Arimitsu
13:30	2I15	Tough ion gels based on salting-in effect of hydrogen-bonding polymers <u>Yuji Kamiyama</u> ,Yueying Peng,Kei Nishikawa,Ryota Tamate
14:00	2I17	Improved mechanical properties of self-assembled peptide hydrogels <u>Yoshiaki Hirano</u> ,Natsuki Yamamoto,Shota Yamauchi,Jo Aoyama
		Tasuku Nakajima, presiding
14:30	2I19	Elastomers that transform into highly fluorescent plastics upon CO2 exposure <u>Yohei Miwa,</u> Kazuma Okada,Takumi Hayashi,Kei Hashimoto,Shoichi Kutsumizu
15:00	2I21	Toughening of Single Crystals of Metal-Organic Frameworks through Polymer Networking of Organic Ligands <u>Shizuka Anan</u> ,Kenta Kokado
15:30	2I23	Toughening of gels using polymer chain entanglements <u>Takashi Miyata</u> ,Midori Murakami,Akifumi Kawamura
		Kenta Kokado, presiding
16:00	2I25	Fabrication of uniformly cross-linked network structure via self-expansion of metal-organic frameworks <u>Ami Nishijima</u> ,Yuto Osugi,Akira Uchiyama,Takashi Uemura
16:30	2127	Fabrication of soft and tough hydrogels using microgel network clusters <u>Tomoki Yasui,</u> Masato Ishimoto,Masahiro Yoshida,Tasuku Nakajima,Takayuki Kurokawa,Jian Ping Gong
17:00	2I29	High elasticity of hydrogels by terminal functional groups of polymer side chains Yuka Wakayama, Takuma Kureha

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Takuya Matsumoto, presiding			
9:00	3I01	Microscopic analysis of bending behavior in polycarbonate films using luminescent quantum dots Ryota Niwa , Yusho Kishimoto, Miho Aizawa, Kyohei Hisano, Atsushi Shishido	
9:15	3I02	Thermal and mechanical properties of synthesized aliphatic polyesters with different halogen compounds on their side chains Kanji Niimi , Yuya Oyama, Atsushi Hotta	
9:30	3103	Analysis of Strain Distribution during Crack Propagation in Polycarbonate film <u>Takayuki Yoshida</u> ,Shotaro Nishitsuji	
9:45	3I04	Visualization of nanoscale deformation behavior under large deformation by atomic force microscopy Xiaobin Liang, Ken Nakajima	
10:00	3105	Analysis of bending deformation and surface fracture of hard-coated polymer films with different film thicknesses Yusuke Fukumoto, Jiayi Yu, Kyohei Hisano, Atsushi Shishido	
	•	Atsushi Shishido, presiding	
10:15	3106	Crystal Modulus of Various Polyalcohols <u>Takashi Nishino</u> ,Naoto Takahashi,Takuya Matsumoto	
10:45	3108	Formation of polytetrapeptide-based coacervates under dilute conditions and elucidation of regulatory factors Jumpei Inomata,Shohei Ishikawa,Takamasa Sakai	
11:00	3109	Adsorption suppression and viscosity transition in semidilute PEO/silicananoparticle mixtures under the protein limit Xiang Li,Saki Kusakabe,Takuya Katashima,Koichi Mayumi,Yuki Akagi	

Room J

Tue. Sep 16

S4. Frontiers of Simulation and Data Science Technologies in Polymer Science

9:50	1JSO	Introductory Remarks S4 <u>Taku Ozawa</u>
	7	Yoshifumi Amamoto, presiding
10:00	1J05	Frontiers of Sim2Real machine learning in polymeric materials <u>Yoshihiro Hayashi</u>
10:30	1J07	Machine Learning-Based Analysis of Polymer Resistance to Organic Solvents

		Shogo Kunieda, Mitsuru Yambe, Hiromori Murashima, Takeru Nakamura, Yosuke Hanawa, Toshiaki Shintani, Hitoshi Kamijima, Yoshihiro Hayashi, Ryo Yoshida
11:00	1J09	Exploration of thermo-responsive polymers based on completely enumeration of polymer constitutional isomers with amide group Gikyo Usuki, Takuro Tsutsumi, Kohei Hasebe, Masato Kobayashi, Mio Shitamichi, Keitaro Matsuoka, Tetsuya Taketsugu, Kazuki Sada
11:30	1J11	Construction and Exploration of Performance Prediction Models for Organic Cathode Active Materials of Lithium-Ion Battery by Materials Informatics Rika Yamamoto, Kosuke Sakano, Hiroaki Imai, Taisei Sakata, Shuntaro Miyakawa, Shino Yoshizaki, Takaya Saito, Yasuhiko Igarashi, Yuya Oaki
		Yoshihiro Hayashi, presiding
13:00	1J13	Natural Language Processing for Analyzing Trend in Polymer Science and Utilization of Experimental Data <u>Yoshifumi Amamoto</u> ,Takaaki Ohnishi
13:30	1J15	Description of hydrogel-ligand interactions through multi- perspective data-driven science based on multiple-resonance NMR measurements <u>Masayuki Okada</u> ,Wenrui ZHU,Yoshifumi Amamoto,Jun Kikuchi
14:00	1J17	Structural Analysis of Coarse-grained Polymer Networks via Graph-based Algorithms <u>Yusuke Yasuda</u> ,Yuta Akagi,Kazushi Fujimoto
14:30	1J19	Analysis of soft material structural changes using the molecular assembly structure learning package for identifying order parameters <u>Kazuaki Takahashi</u>
		Takahiro Murashima, presiding
15:00	1J21	Analysis of Polymer Friction and Wear using Multiscale Simulation <u>Hitoshi Washizu,</u> Akinori Fujita,Ogawa Yudai,Itoh Kazuki,Masaki Hayama,Yodai Tanabe,Akito Nakamura,Kaito Nomura,Yuji Higuchi,Sugimura Natsuko
15:30	1J23	Analysis of Pressure-Sensitive Adhesive/Resin Bonding Interfaces Using DPD Simulation <u>Tetsunori Morishita</u> ,Kohsuke Ohmi,Yuya Yamada,Takuya Mitsuoka
16:00	1J25	Molecular Dynamics Analysis of Small-Molecule Permeation in Polymers Using a Highly Efficient New Free Energy Calculation Method Ryo Omori, Keiichiro Nomura, Isamu Shigemoto, Susumu Okazaki
16:30	1J27	Viscosity of unentangled polymer solutions under fast shear flow by coarse-grained molecular simulation <u>Tatsuma Oishi</u> , Yusuke Koide, Takato Ishida, Takashi Uneyama, Yuichi Masubuchi
		Kazuaki Takahashi, presiding
17:00	1J29	A multiscale simulation for large deformation of rubber compounds

		<u>Takahiro Ohkuma,</u> Yoshiaki Kawagoe,Kazuki Ryuzono,Tomohiro Miyata,Tomonaga Okabe,Hiroshi Jinnai
17:30	1J31	Method for calculating phase-separated structures by generating random polymer structures <u>Takashi Honda</u>
18:00	1J33	Multiscale simulation coupling molecular dynamics simulation and continuum simulation. <u>Takahiro Murashima</u>

Wed. Sep 17

S4. Frontiers of Simulation and Data Science Technologies in Polymer Science

	T	akato Ishida, presiding
9:00	2J01	Mechanical properties of crystalline polymers by large-scale coarse-grained molecular dynamics simulations Yuji Higuchi
9:30	2J03	Simulation and Data-Driven Analysis of Crystallization and Mechanical Properties in Semicrystalline Polymers <u>Mohammed Althaf Hussain</u> ,Takeshi Yamamoto,Shigeru Yao
10:00	2J05	Molecular Dynamics Study on Compressive Fracture Mechanisms of Polymer Nanoparticles <u>Ikki Takahashi</u> ,Yoshiki Hieda,Yusuke Yasuda,Minoru Kato,Kazushi Fujimoto
	Y	uji Higuchi, presiding
10:30	2J07	Development of a simulation method for network polymer formation using quantum chemistry and molecular dynamics calculations: application to interfacial reactions with molecular catalytic effects Yingxiao Xi,Kaiwen Li,Takahisa Ishiyama,Hao Xue,Gota Kikugawa,Naoki Kishimoto
11:00	2J09	Coarse-Grained Molecular Dynamics Simulation of Polymer Oxidative Degradation Considering Radical Transportation: Comparison between Quiescent and Flow Conditions <u>Takato Ishida</u> , Yusuke Koide, Takashi Uneyama, Yuichi Masubuchi

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES "English Session"

Isamu Akiba, presiding

14:15 2J18 Structural and Conformational Investigation of Pectin in Acid Solution
Hai Huang, Rintaro Takahashi, Ken Terao

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Isamu Akiba, presiding

14:30	2J19	Denaturation and renaturation behavior of double helices in the gelation of Gellan Gum <u>Ryoma Suzuki</u> ,Rintaro Takahashi,Ken Terao
14:45	2J20	Synthesis and Micelle Formation Behavior of Decyl Succinate-modified Dextran <u>Yuzu Komuro</u> ,Rintaro Takahashi,Ken Terao
15:00	2J21	Temperature response and hydration/dehydration behavior of aqueous solutions of dextran derivatives <u>Aito Saeki</u> ,Rintaro Takahashi,Ken Terao
	K	Cen Terao, presiding
15:15	2J22	Decomposition Behavior of Pullulan in Hot Water Observed by Small-Angle X-ray Scattering Shinichiro Katsuya, <u>Yo Nakamura</u>
15:30	2J23	Synthesis of UCST-type water-soluble polymers and their unusual aqueous solution behavior <u>Maina Takeuchi</u> , Moriya Kikuchi, Seigou Kawaguchi
15:45	2J24	Phase behavior of aqueous solution of poly(acrylic acid)/guanidyl compound mixtures Koki Yamaura,Isamu Akiba
16:00	2J25	Structural and rheological studies on wormlike micelles formed by mixtures of potassium oleate and L-arginine <u>Tomoki Endo</u> ,Takayoshi Kawahara,Kazuya Uezu,Isamu Akiba
	Y	o Nakamura, presiding
16:15	2J26	Associating structures of mixtures of polyglycerol fatty acid esters with different hydrophobic chain length Ichito Morimoto , Isamu Akiba
16:30	2J27	Aggregation behavior of aqueous solutions of comb-shaped poly(N-isopropylacrylamide) with polysaccharide main chain with increasing temperature <u>Tomoki Arakawa</u> ,Rintaro Takahashi,Ken Terao
16:45	2J28	Effects of stereoregularity of poly (lactic acid) chain on the local conformation <u>Masahiro Yagishita</u> ,Kayo Ueda,Yoshinori Suzuki,Takahiro Watanabe,Moriya Kikuchi,Seigou Kawaguchi
17:00	2J29	Viscoelastic properties of ring polybutadienes with high purity. <u>Masahiro Ito</u> ,Atsushi Takano

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

	,	Yuya Doi, presiding
9:00	3J01	Effect of Terminal Modification on the Temperature Responsiveness of Poly(N,N-diethylacrylamide) <u>Koume Matsuo</u> ,Rintaro Takahashi,Ken Terao
9:15	3J02	Linear and branched supramolecular polymers formed from isomeric monomers <u>Natsumi Fukaya,</u> Yufuka Furukawa,Ren Sato,Takuya Katashima,Takashi Kajitani,Kazunori Sugiyasu
9:30	3J03	Effects of Tacticity of Poly(methyl methacrylate) on the Local Conformation. <u>Yuta Suzuki, Moriya Kikuchi, sion Iwasa, Ituki</u> Tousya, Takehiro Kawauchi, Ziro Kumaki, Kawaguchi Seigo
9:45	3J04	Scaling Analysis on the Viscoelasticity of Semidilute Entangled Polyelectrolyte Solutions Using Diffusing Wave Spectroscopy <u>Atsushi Matsumoto</u> ,Ikuto Kato,Chi Zhang,Shinji Sugihara,Yasushi Maeda,Frank Scheffold,Amy Shen
10:00	3J05	Reentrant Phase Separation Behavior of Cationic Polymer Aqueous Solutions Induced by Addition of Organic Salt Kazusa Takesue, Yura Narazaki, <u>Yusuke Sanada</u> , Yukiteru Katsumoto
	1	Daichi Ida, presiding
10:15	3J06	Heat-induced bundle formation of methylcellulose in aqueous solution <u>Toshiki Hara</u> ,Nazuna Taniguchi,Yusuke Sanada,Yukiteru Katsumoto
10:30	3J07	Influence of congo red on the structure of xanthan Kaede Sato,Yuka Sato,Kazuto Yoshiba,Yoshiumi Kohno,Tadatomo Kawai, <u>Yasuhiro Matsuda</u>
11:00	3J09	Polymer Conformation Analysis in PEC-type Solid Polymer Electrolytes by SANS <u>Yuya Doi</u> ,Juergen Allgaier,Stephan Foerster,Michael Ohl
11:30	3J11	Excluded-volume-exponent crossover observed through the scaling law of the osmotic pressure in polymer gels Sohei Shinozaki, Takashi Yasuda, Noriaki Mizumoto, Xiang Li, Naoyuki Sakumichi, Takamasa Sakai
	•	Yukiteru Katsumoto, presiding
13:00	3J13	Dynamic Control of Redox-active Polymer Electrolyte Solution Viscosity and Nanoparticle Dispersibility <u>Kenichi Oyaizu</u> ,Kohei Ishigami,Shinjiro Mori
13:30	3J15	Evaluation of Phase Transition Behavior in Ternary Polymer Solutions Driven by Hydrogen Bonding Formation and Dissociation <u>Koki Takasu</u> ,Natsuki Inaba,Keitaro Matsuoka,Takuro Tsutsumi,Kazuki Sada
14:00	3J17	Structure and Rheology of Acrylic Ionomers Osamu Urakawa, Takuto Suda, Tadashi Inoue

Takenao Yoshizaki,Daichi Ida

Room K

Tue. Sep 16

14:30

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Tsuneaki Sakurai, presiding 1K06 10:15 Mechanochromic Emission of Cyanostilbene-based Amorphous Molecular Fluorophores Hideyuki Nakano, Hiroya Fukushima, Kou Miyagishi, Yuito Shimazaki,Rikuya Kurita 10:30 1K07 Photocured Blended Films of Diarylfluorene having Naphthalene Moieties and TiO2 with High Refractive Indices Haruyuki Okamura, Keiko Minokami, Shinsuke Miyauchi 10:45 1K08 Optical properties of (CNF/ionic liquid) composite films with photon upconversion dyes system Hirokazu Yamane, Kenichiro Sasaki 11:00 1K09 Z-to-E thermal isomerization of thioindigo promoted by alkylamide supramolecular assemblies Yuki Nagai, Sota Fujisaki, Yoichi Kobayashi Hideyuki Nakano, presiding 11:15 1K10 Development of colorless and transparent polyurethanes bearing excited-state intramolecular proton transfer-type fluorophores as side pendants Tsukasa Kawamura, Tsuneaki Sakurai, Masaki Shimizu

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Hideyuki Nakano, presiding

11:30 1K11 Nonconventional Luminescent Polyester with Cryogenic Phosphorescence and Thermofluorochromic Behavior Tianle Gao, Yu-Jen Shao, Feng Li, Takuya Isono, Toshifumi Satoh

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Hideyuki Nakano, presiding

11:45 1K12 Fine pattern formation of polymers containing carboxylic acid derivatives at side chains utilizing consecutive nucleophilic acyl substitution reaction during development process Shiori Hidehira, Hiroyuki Maekawa, Toshiyuki Oyama

Takuya Isono, presiding

13:00	1K13	High Pressure-induced Changes in the Photophysical Properties of Imide Compounds and Polyimides Containing a Thianthrene-Moiety in the Main Chain Liangkang Yu, Hiroka Yamamatsu, Ryuichi Isoda, Megumi Matsuda, Haonan Liu, Tomoya Higashihara, Shinji Ando
13:15	1K14	Thin resist film structures, submicrometer-size resist pattern shapes, and dry-etched silicon hole structures obtained under different process temperature conditions of a positive-tone photoresist in ultraviolet laser direct drawing Daisuke Tojima , Iori Morita, Tomoko Hasegawa, Masaru Nakagawa
13:30	1K15	Systematic copolymerization of various electron donor and acceptor monomers and aggregation-induced TADF property of the resultant copolymers. <u>Chikato Tanabe</u> , Fumitaka Ishiwari, Akinori Saeki
13:45	1K16	Synthesis and Optical Properties of Phenolic Polymers Including Triphenylamine Units <u>Takahiro Kakuta,</u> Yukiyo Shinjo,Rise Miyazaki,Yukiko Ueno,Tada-aki Yamagishi
]	Fumitaka Ishiwari, presiding
14:00	1K17	Improvement of Adhesion Performance of Delayed UV- Curable Radical Adhesives Based on Acrylic Resin <u>Naoya Machida</u> ,Daisuke Aoki,Koji Arimitsu
14:15	1K18	Study on anionic UV adhesion of a multifunctional lactone monomer using a photobase generator <u>Yuudai Yamamuro</u> ,Daisuke Aoki,Koji Arimitsu
14:30	1K19	Anionic photopolymerization of episulfides with UV curing in shadow zones at room temperature and its application to adhesion Nanami Inoue, Takahiro Matsuo, Junpei Murata, Daisuke Aoki, Koji Arimitsu
	•	Takahiro Kakuta, presiding
14:45	1K20	Exploration of photobase generators for UV curable polyurethane adhesives <u>Hiyori Inoue</u> ,Daisuke Aoki,Koji Arimitsu
15:00	1K21	Alignment of phase separation structures through sequence of spatially selective photopolymerization and chain reshuffling reaction <u>Keigo Akisawa</u> ,Kotaro Shinmura,Kaito Takahashi,Miho Aizawa,Kyohei Hisano,Atsushi Shishido
15:15	1K22	Observation of Asymmetric Rotational Brownian Motion of Chiral Molecules via Polarization-Angle-Dependent Optical Kerr Effect spectroscopy Koichi Murakami, Soh Kushida, Yohei Yamamoto
	\$	Soh Kushida, presiding
15:30	1K23	Photo-induced molecular reorientation and molecular rotation in polymer-stabilized dye-doped liquid crystals: real-time retardation analysis by polarization imaging Reika Fukumitsu, Yuya Nakata, Junki Yokota, Miho Aizawa, Kyohei Hisano, Atsushi Shishido
15:45	1K24	Polarization analysis of molecular rotation and self-oscillation behavior of monomer-containing dye-doped liquid crystals under circularly polarized light irradiation

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Soh Kushida, presiding

16:00 1K25 Real-Color Displays Realized by Wavelength-Independent Random Depolarization Shizuki Sasaki, Yasuhiro Koike

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Takeshi Yamamoto, presiding

16:30 1K27 Kinetic evaluation of CO2 in PDMS by sorption measurement at low temperatures and high pressures

Mizuki Inoue, Edhuan Ismail, Laszlo Szabo, Samitsu
Sadaki, Ichinose Izumi

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Takeshi Yamamoto, presiding

16:45 1K28 CO2 Transport Behavior in Perfluoropolyether Elastomers for Gas Separation Applications
Sinan FENG, Anh Phuong LE THI, Sono SASAKI, Hiroyasu
MASUNAGA, Atsushi TAKAHARA

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Takeshi Yamamoto, presiding

17:00	1K29	The effects of the membrane surface on the gas permeability of polymer composite membranes and its thickness dependence Ryo Tomeba, Roman Selyanchyn, Shigenori Fujikawa
17:15	1K30	Development of self-healing polymer membranes with dynamic disulfide bonds for CO2 separation <u>Naoki Ousaka</u> ,Ryo Tomeba,Shigenori Fujikawa
	Sa	ndaki Samitsu, presiding
17:30	1K31	Effect of permeation environmental conditions on the CO2 permeation properties of polymeric membranes containing surface-modified nanoparticles aimed at membrane-separated DAC. <u>Hiroshi Shingu</u> , Masafumi Yamato, Hiroyoshi Kawakami
17:45	1K32	Visual Chiral Sensing Using Enantioselective Gel Collapse of Supramolecular Gel Formed by Carbamoylated Riboflavin <u>Riku Izumi</u> ,Yuta Teranishi,Hiroki Iida
18:00	1K33	Exploration of Asymmetric Autoinductive Reaction Using Dynamic Helical Polymer Catalysts

		<u>Takeshi Yamamoto</u> ,Kae Oshitani,Shumpei Ito,Yusuke Matsumoto,Michinori Suginome
18:15	1K34	Fabrication and Characterization of a Biomimetic Root Structure Inspired by the Halophytic Mangrove <u>Jin Goto</u> ,Daisuke Ishii

Wed. Sep 17

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

	F	Iidenori Okuzaki, presiding
9:00	2K01	Analysis of the CO2 permeation mechanism of polymeric membranes based on vibrational spectroscopy and high-angle X-ray scattering. <u>Chuya Sato</u> ,Kakeru Obayashi,Aya Fujimoto,Shuiti Nakazato,Ken Kojio
9:15	2K02	Detection of phosphate-based biomolecules using π-conjugated polymers with dipicolylamine unit (V) -Effect of the main chain structure- Nao Hoso, Shiori Nishizumi, Masahiro Fujita, Yuko Takeoka, Masahiro Rikukawa
9:30	2K03	Detection of bacteria by cationic π-conjugated polymers (III) - Effect of molecular weight on bacterial detection- <u>Hibiki Ogura</u> ,Nobuyuki Kanzawa,Masahiro Fujita,Masahiro Rikukawa,Yuko Takeoka
9:45	2K04	Effects of Shear Stress on Antiferromagnetic Interactions within Nitroxide Dimers in Spin-Labeled Polypeptides and Their Conformational Analyses <u>Toshihiro Hiejima</u> , Junpei Kaneko
	1	oshihiro Hiejima, presiding
10:00	2K05	Role and Effect of Ionic Gels on Piezoionic Sensors <u>Daito Goto</u> ,Taiki Horiuchi,Hidenori Okuzaki
10:15	2K06	Synthesis and Carrier Transport Properties of Alkyl-PEDOT:PSS with Different Composition Ratios <u>Kosei Sakurai</u> ,Yuxin Jing,Hidenori Okuzaki
10:30	2K07	Synthesis and ladderization of polyphenylene bearing 2,6-ditert-butylphenol residues Shuji Katsuta, Masahiro Teraguchi, Takashi Kaneko
10:45	2K08	Electronic states of polyradicals derived from cyclic tetramers of 2,6-bis(3,5-di-tert-butyl-4-hydroxyphenyl)benzo[1,2-b:5,4-b']difuran. <u>Koki Katano</u> ,Masahiro Teraguchi,Takashi Kaneko
	1	Asahiro Teraguchi, presiding
11:00	2K09	Fabrication of CNTs-contained self-doped PEDOT thin films and its properties <u>Hiroaki Taniguchi</u> , Yukina Taniguchi, Hirokazu Yano, Shinji Takeoka

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Masahiro Teraguchi, presiding

11:15 2K10 Sharp subthreshold switching in interface-modified organic electrochemical transistors for millivolt-level signal sensing Hanyu Sun, Masaki Ishii, Takeya Jun, Katsuhiko Ariga, Yu Yamashita

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

	I	Masahiro Teraguchi, presiding
11:30	2K11	Characterization of Blend Films of PEDOT:PSS and Zwitterionic Polymers <u>Wakana Takahashi</u> ,Aki Kashiwazaki,Masaya Mitsuishi,Shunsuke Yamamoto
	1	Tomoya Higashihara, presiding
13:15	2K14	A Strategically Designed Easily-Synthesized Polymer Donor for Efficient Organic Photovoltaics <u>Kodai Yamanaka</u> ,Tsubasa Mikie,Itaru Osaka
13:30	2K15	Development of Thienoquinoid-based Acceptors Having Short-Wavelength Infrared Absorption for Application in Organic Photodetector <u>Iori Atobe</u> ,Risa Ueda,Koudai Yamanaka,Tsubasa Mikie,Itaru Osaka
13:45	2K16	Development of semiconducting polymers incorporating novel benzo[1,2-d:4,3-d']bisthiazole-based building units for efficient organic photovoltaics <u>Mayu Tomita</u> ,Kodai Yamanaka,Tubasa Mikie,Itaru Osaka
14:00	2K17	Interfacial effects on charge carrier dynamics in polymer semiconductors blends <u>Kazuki Kohzuki</u> ,Tsubasa Mikie,Itaru Osaka,Shunsuke Yamamoto,Hideo Ohkita
	8	Shunsuke YAMAMOTO, presiding
14:15	2K18	Synthesis of novel semiconducting polymers with arylene sulfide spacers <u>Teruma Mikata</u> ,Tomoya Higashihara,Chu-Chen Chueh
14:30	2K19	Effect of phosphoric acid doping on quaternized polymer electrolyte membranes <u>Koki Kanda</u> ,kenji Miyatake
14:45	2K20	Water vapor permeation properties of ion-conductive polymer membranes <u>Ryunosuke Omata</u> ,Kenji Miyatake
	1	Kenji Miyatake, presiding
15:00	2K21	Novel Anion Conduction Mechanism Based on Anion-π Interaction and Application to Solid Polymer Electrolyte <u>Yuri Nara</u> ,Hiroyoshi Kawakami,Manabu Tanaka
15:15	2K22	Preparation of Solid Polymer Electrolytes with Sulfur- Containing Aliphatic Polymers and amorphous lithium salts. <u>Yuki Ogawa</u> ,Akinari Chiba,Kenichi Oyaizu
15:30	2K23	Ion Conduction Mechanism for Solid Polymer Electrolytes with Soft Lewis Base- Containing Aliphatic Polymers Akinari Chiba, Kenichi Oyaizu

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Kenji Miyatake, presiding

15:45 2K24 Electrochemical Peltier Cooling by phase transition entropy of pH-Responsive poly(N-isopropylacrylamide) nanoparticles Ryuto Iwata, Yusuke Wakayama, Hongyao Zhou, Teppei Yamada

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Hongyao Zhou, presiding

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16:00	2K25	Electrolyte membranes based on phosphorylated cellulose nanofibers for LT-PEFC <u>Hinako Koyanagi</u> ,Takashi Kato,Takafumi Sai,Akito Masuhara
16:15	2K26	Synthesis of Polydopamine- Graphene Oxide Composites for Organic Cathode Active Materials of Lithium-ion Battery <u>Fuka Yoshida</u> ,Hiroaki Imai,Yuta Nishina,Yuya Oaki
16:30	2K27	Synthesis and properties of novel fluorine-free anion conductive polymers <u>Rino Terada</u> ,Kenji Miyatake
	Yı	uya Oaki, presiding
16:45	2K28	Cost-effective synthesis of proton-conductive aromatic polymer membranes <u>Taito Koshimura</u> ,Kenji Miyatake
17:00	2K29	Synthesis of acrylate polymers with coordinating side chains and application to gel polymer electrolytes <u>Taiyo Arai</u> , Hisashi Kokubo, Ryoichi Tatara, Kaoru Dokko
17:15	2K30	Preparation of a polymer electrolyte membrane composed of polystyrene with phosphonic acid groups on the side chains through alkylene spacers Takato Kajita, Takenori Nakayama, Mio Nishimoto, Haruka Tanaka, Katsumi Sato, Mayeesha Marium, Albert Mufundirwa, Hiroyuki Iwamoto, Atsushi Noro

Thu. Sep 18

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Jun Matsui, presiding

9:00	3K01	Preparation of polymer electrolyte membranes composed of polystyrylalkane-b-poly(styrylalkane phosphonic acid) block polymers Itsuki Takashima, Takato Kajita, Mio Nishimoto, Haruka Tanaka, Atsushi Noro
9:15	3K02	Properties of all-solid-state rechargeable air batteries using anthraquinone-2-carboxylic acid as the negative Electrode. <u>Hirotaka Yazawa</u> ,Kenji Miyatake

9:30 3K03 Development of Hydrogel Nanoparticle-Based Rechargeable Thermo-electrochemical Cell Driven by Volume Phase

Transition

Yuki Namba, Hisashi Shimakoshi, Yu Hoshino

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Jun Matsui, presiding

9:45 3K04 Enhancing High-Voltage Performance of Symmetric

Supercapacitors Using BIAN-Based Polymerizable Electrolyte

Additive

Bharat Srimitra Mantripragada, Noriyoshi Matsumi

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Atsushi Noro, presiding

10:00	3K05	Transparent latent heat storage polymer utilizing side-chain aggregation and melting occurring in the glassy state Ryota Onodera, Mao Kikuchi, Takayuki Yoshida, Syotaro Nishitsuji, Jun Matsui
10:15	3K06	Synthesis of A2B-type Y-shaped copolymer consisting of poly(lactide) and poly(stearyl methacrylate), particle formation in solution, and investigation to thermal storage materials <u>Tsuyoshi Ando</u> , Kengo Hayase, Hiroharu Ajiro

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Atsushi Noro, presiding

10:30 3K07 Analysis of the hydration state of polymer electrolyte

membranes using X-ray absorption spectroscopy Naoya Kurahashi, Hiroki Suga, Masahiro Rikukawa

Room L

Tue. Sep 16

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Shin-ichi Yusa, presiding

10:15 1L06 A Universal Method for Creating LCST-type Simple Polymer

Coacervates

Haowei SUN, Takafumi ENOMOTO, Ryo YOSHIDA

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Shin-ichi Yusa, presiding

		·
10:30	1L07	Alkyl-π Supercooled Gels <u>Takashi Nakanishi</u> ,Akito Tateyama
10:45	1L08	Fabrication of EPDM Fibers and Application to Soft Actuators <u>Shuki Toyoshima</u> , Yuma Furuya, Daiki Shimazaki, Hidenori Okuzaki
11:00	1L09	Synthesis of High-Permittivity Polysiloxane Elastomers Modified with Cyano Groups and Evaluation of Their Electrical and Mechanical Properties <u>Yuria Otsuka</u> , Hiromitsu Tanaka, Minako Uoshima, Kensuke Wada, Yumi Inagaki, Norihiro Mizoshita
	•	Takashi Nakanishi, presiding
11:15	1L10	Construction and physical properties of peptide hydrogels showing photo-, thermos-, and pH-responsible sol-gel transition. Kosei Wakita, Shogo Matsubara
11:30	1L11	Self-assembly of graphene oxide nanosheets for the generation of structural colors and the application in functional soft materials <u>Daisuke Ogawa</u> , Yuta Nishina, Koki Sano
11:45	1L12	Aggregation behavior of photo-responsive polyampholytes Rei Kakitani,Shin-ichi Yusa
	1	Kohsuke Matsumoto, presiding
13:00	1L13	Stimuli-Responsive Behavior of Rotaxane Mechanophores Modulated by Axial Substituent Variation <u>Riku Yamamoto</u> ,Yoshimitsu Sagara
13:15	1L14	Development of printable 4D hydrogel by PET-RAFT polymerization. <u>Yoshiko Miura</u> ,Chanhyuk Jee,Hikaru Matsumoto,Masanori Nagao,Ken Kojio,Zhongkui Wang
13:30	1L15	Effect of alkoxy side chain positions on the ring-opening and closing property of coumarin π -conjugated polymers Yuya Kaneko, Aohan Wang
13:45	1L16	Synthesis and Functionalization of High-Strength Materials Using Hydrogel Containing Phosphate Groups <u>Riku Fukuoka</u> ,Takuma Kureha
	•	Yoshiko Miura, presiding
14:00	1L17	Mechanical-Optical Response of Pressure-Responsive Chira- Nematic Liquid-Crystalline Elastomers <u>Ryota Morimoto</u> ,Maki Ogata,Kohsuke Matsumoto,Osamu Tsutsumi
14:15	1L18	Liquid-Crystalline Polymer Microparticles Embedded with Inorganic Nanoparticles via Seeded Dispersion Polymerization <u>Kei Nomura</u> ,Kohsuke Matsumoto,Osamu Tsutsumi
14:30	1L19	Electrochemical signaling for artificial innervation of self- oscillating gels Tsai-Ning Hu, <u>Takafumi Enomoto</u> ,Aya Akimoto,Ryo Yoshida
14:45	1L20	Sol-gel Transition of Triblock Copolymer with UCST-type Thermo-responsive Zwitterionic Polymer Blocks <u>Akifumi Kawamura</u> ,Hiyori Matsui,Katsuhiro Yamamoto,Takashi Miyata

Kyoichi Tsurusaki, presiding

15:00	1L21	Photocrosslinkable polymer system to form strong gels under dilute conditions -mechanical properties and adhesion properties- <u>Kimio Sumaru</u> , Masaaki Okihara, Ayaka Tomoda, Toshiyuki Takagi
15:15	1L22	Preparation of bio-based polymer electrolyte membrane with nanomatrix channel Yoshimasa Yamamoto, Seiichi Kawahara
15:30	1L23	Analysis of Orientation Changes in Chiral-Nematic Liquid- Crystalline Polymer Particles under Applied Strain <u>Maki Ogata</u> ,Matsumoto Kohsuke,Osamu Tsutsumi
15:45	1L24	Pressure-Induced Nanostructural Changes in Polystyrene Triggered by Baroplastic Incorporation <u>Takaya Okazaki</u> ,Fanny Moses Gladys,Sota Kakesu,Ikuo Taniguchi
]	kuo Taniguchi, presiding
16:00	1L25	Thermoplastic Ion Gels with Enhanced Stiffness and Ionic Conductivity via PEO Crystallization Masamune Tatsuiwa, <u>Kei Hashimoto</u> , Yohei Miwa, Shoichi Kutsumizu
16:15	1L26	Development of solid polymer electrolytes with superior toughness and reversibility via strain-induced crystallization Shuto Fujisawa,Kei Hashimoto,Takamasa Sakai,Koichi Mayumi,Shoichi Kutsumizu,Yohei Miwa
16:30	1L27	Design and Physicochemical Characterization of Gel Electrolytes Based on Lithium-Salt-Containing Deep Eutectic Solvents and Polyethylene Glycol <u>Yugo Ohshima</u> ,Shoihi Kutsumizu,Yohei Miwa,Kei Hashimoto
16:45	1L28	Real-time observation of light-emitting phenomenon of shear-responsive materials by rheo-optics Hibiki Oota, Kyoichi Tsurusaki, Rika Takeda, Takumi Oomura, Shougo Morisako, Kyosuke Isoda

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Daisuke Aoki, presiding

17:00 1L29 Na+-Complexed Dendritic Polyglycerols for Recovery of Frozen Cells and Their Network in Media

Aram Shin, Tae Kyung Won, Sang Yup Lee, Dong June Ahn, Byeong-Su Kim

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Daisuke Aoki, presiding

17:15	1L30	Tensile Properties Evaluation of Highly Stretchable Organogels Composed of Low-Hydrophobic and Amphiphilic Monomers <u>Hiroharu AJIRO</u> ,Kokoro CHIDA,Hiroaki YOSHIDA
17:30	1L31	Fluorescence red shift and white light luminescence of polymer clusters cross-linked by photo-dimerization reaction

<u>Shintaro Kawano</u>,Takumi Ida,Masahiro Muraoka,Motohiro Shizuma

Shintaro Kawano, presiding

17:45	1L32	The effect of supramolecular crosslinkers based on γ-CD and PEG on the mechanical properties of rotaxane cross-linked polymers <u>Yuki Sueyoshi</u> , Toyokazu Tsutsuba, Tatsuo Taniguchi, Daisuke Aoki
18:00	1L33	Development of biocompatible soft materials with stretch responses similar to those of soft biological tissues Yuya Kagami , Taiki Hoshino, Masaru Tanaka, Yukikazu Takeoka

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Shintaro Kawano, presiding

18:15 1L34 Conductive and self-healing composite gel material containing nanocellulose/carbon nanotubes based on highly deformable and adhesive hydrogel
Tinghui Zhao,Tsukuru Masuda,Madoka Takai

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Junya Uchida, presiding

9:00	2L01	Geometric deformation and pneumatic performance of connected polyhedral based on origami open-close mechanism <u>Hiroshi Endo</u> ,Koya Takahashi
9:15	2L02	Locomotion performance of cylinder quadruped soft robot composed of parallel-typed bellows <u>Tomoya Yamashita</u> , Hiroshi Endo
9:30	2L03	Photoresponsiveness of Self-Propelled Oil Droplets in the Presence of an Amphiphilic Polymer with an Azobenzene Skeleton <u>Ayano Watanabe</u> ,Kouichi Asakura,Taisuke Banno

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Hiroshi Endo, presiding

9:45 2L04 Photoresponsive Actuator-Innovated Adhesion Systems for Selective Peeling, Substrate Recycling, and Solvent-Free Adhesive Reuse

Yunpeng Qian, Kenji Yamaoka, Sho Kosaba, Ryohei Ikura, Yoshinori Takashima

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Hiroshi Endo, presiding

10:00	2L05	UCST control of temperature-responsive zwitterionic polymer by structural control and their self-assembly <u>Taiki Sugimura</u> ,Ryota Nakanishi,Takashi Miyata,Akifumi Kawamura
10:15	2L06	Development of Functional Liquid-Crystalline Interfaces Using a Biotin Moiety <u>Junya Uchida</u> ,Mina Hasome,Jumpei Inomata,Takashi Kato
	SI	nohei Horike, presiding
10:30	2L07	Toughness switching under constant elastic modulus of polymer network material based on Cu(I)-bis(bipyridine) complexes <u>Shun-ichiro Noguchi</u> , Hiroshi Masai, Jun Terao

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

	:	Shohei Horike, presiding
10:45	2L08	Redox-responsive gel-sol transition of PEG hydrogel formed via dynamic crosslinking <u>Kan Matsui</u> , Hongyao Zhou, Teppei Yamada
11:00	2L09	Ion conduction in helical PEG complex <u>Hongyao Zhou</u> ,Takuya Ono,Sakuya Nakagawa,Tetsuta Kurokawa,Genki Hatakeyama,Hideo Ando,Teppei Yamada
11:30	2L11	AI for Hydrogel Development: Data-Driven De Novo Design of Super-Adhesive Hydrogels <u>Hongguang LIAO</u> ,Hailong FAN,Jian Ping GONG
	1	Hiroshi Masai, presiding
13:00	2L13	Preparation of tandem cross-linked tough hydrogels and their electrical resistance response to mechanical stimuli <u>May Myat Noe</u> , Akihide Sugawara, Yoshinori Takashima, Hiroshi Uyama
13:30	2L15	Bulk photovoltaic effect and polarization-induced electroluminescence of extended π-conjugated ferroelectric liquid crystals <u>Masahiro Funahashi</u> , Azumi Akiyama, Yasuko Koshiba, Shohei Horike, Shinobu Uemura

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

	A	kifumi Kawamura, presiding
14:00	2L17IL	Aqueous Ordered Structures Induced by Phase Separation of Zwitterionic Polymers <u>Yuji Higaki</u>
	H	liroharu Ajiro, presiding
15:00	2L21IL	Development of Functional Soft Materials Composed of Colloidal Building Blocks <u>Yukikazu Takeoka</u>
	IV	Iaxym Tansky, presiding
16:00	2L25	Mechanical properties of viologen-containing polymer with flexible counter anions <u>Kazuki Komine</u> ,Khoa V. Le,Takeo Sasaki,Yumiko Naka

16:15	2L26	Reinforcement of Polycarbonate by Addition of Supramolecular Dimers and Mechanism of Mechanical Property Enhancement <u>Yuta Fukao</u> ,Kenji Yamaoka,Ryohei Ikura,Hironobu Morishita,Yoshinori Takashima
16:30	2L27	Evaluation of Self -Healing Properties of Boronic Ester- Crosslinked Siloxane Networks Aimed at Improving Water Stability via Boron-Nitrogen Coordination <u>Hinata Tsunoda</u> ,Kan Aoki,Huie Zhu,Aki Kashiwazaki,Masaya Mitsuishi
	R	yohei Ikura, presiding
16:45	2L28	A development of non-isocyanate thermoplastic coating
		utilizing bicyclic lactone containing polymer derived from CO2
		utilizing bicyclic lactone containing polymer derived from

Room M

Tue. Sep 16

S5. Polymers for realizing next-generation electronics packaging

9:50	1MSO	Introductory Remarks S5 <u>Toshiyuki Oyama</u> ,Yoshikuni Sasaki
	N	Iiyuki Harada, presiding
10:00	1M05	Development of an Activating Ester-Type Epoxy Resin Hardeners supporting the proliferation of 5th generation mobile communication system <u>Kazuo Arita</u>
10:30	1M07	Enhancing the dismantlability of adhesives containing epoxy compounds with Diels-Alder adducts and thermally expandable microcapsules <u>Katsuma Kitamuro</u> , Masato Ootsu, Masato Imai, Kazuo Arita, Eriko Sato
11:00	1M09	Introduction of debondable adhesive technology for next- generation electronics <u>ATSUSHI YASUI</u>
	R	lyohei Ishige, presiding
13:30	1M15	The development of intrinsic stretchable semiconducting polymers <u>Christine Keiko Luscombe</u> , Wissem Khelifi, Tom Wilfling
14:00	1M17	Heat curing of cyanate esters using multifunctional glycidylcarbamates as accelerators <u>Yoshiaki yoshida</u> ,Yuki Yoshinaga,Yuta Tominaga
	K	Keiko Ohtsuka, presiding

14:30	1M19	Thermal and Mechanical property of liquid crystalline cyanate ester system and effect of epoxy modification <u>Kantaro Nishio</u> , Miyuki Harada, Miyuki Miyamoto, Hiroaki Tadokoro, Yusuke Kawashima
15:00	1M21	The effect of imidazole catalysts on the physical properties of cross-linked cyanate ester polymers <u>Hajime Kishi</u> ,Shunsuke Hayashi,Takemasa Mototsuka,Takeshi Kakibe,Satoshi Matsuda
	Hi	iroyuki Maekawa, presiding
15:30	1M23	Suppressed Thermal Volumetric Expansion based on Selective Crosslinking of Nanodomain-Interface formed by Silicone-containing Block Copolyimides <u>Atsuto Momoze</u> , Shinji Ando, Ryohei Ishige, Daisuke Miura, Tomoya Higashihara, Yoichiro Maruyama, Shintaro Fujitomi
16:00	1M25	Low-CTE Colorless Polyimides Obtained by Modified One-pot Polymerization Process <u>Masatoshi Hasegawa</u> ,Takehiro Shinoda,Junichi Ishii
16:30	1M27	Photopatterning of polyimide or polyphenylene ether films by forming Semi-IPN structure <u>Taku Furukawa</u> , Daisuke Aoki, Koji Arimitsu
	Ke	oji Arimitsu, presiding
17:00	1M29	Development of hybrid bonding technology using polyimide that contributes to high performance semiconductors Masao Tomikawa
17:30	1M31	Synthesis of hyperbranched tellurium-containing polymers by polyaddition reaction of tellurium tetrachloride with epoxides and oxetanes, and their application to non-chemically amplified positive resist materials Ryosuke Taguchi, Hiroto Kudo
18:00	1M33	Synthesis and resist properties of main-chain-scission type polyacetals for the development of high sensitive extreme ultraviolet resist material <u>Hiroto Kudo</u> ,Kota Iwane,Riku Akabane

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Wed. Sep 17

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S5. Polymers for realizing next-generation electronics packaging

Hajime Kishi, presiding Development of Aromatic Poly(ether)s with Phosphine Sulfide Groups toward Low Dielectric Materials Ryoyu Hifumi, Kotaro Ochiai, Ikuyoshi Tomita Effect of terminal functional groups of polyrotaxane on the cured properties of polyrotaxane modified bismaleimide resin Keiko Ohtsuka, Shuichi Nakao, Yoshiro Hatanaka

2M05 Tailoring the Properties of Polymer Composites via Inorganic Functional Fillers

Yusuke IMAI

Toshiyuki Oyama, presiding

10:30	2M07IL	Development of High-Thermal-Conductivity and Low- Dielectric-Constant Polymer Materials for Next-Generation Electronics Packaging <u>Teruaki Hayakawa</u>
11:30	2M11	Molecular-Calculation-Based Materials Informatics for using Biomass Materials in Devices <u>Tomio Iwasaki</u>
	Yo	oshikuni Sasaki, presiding
13:00	2M13	Synthesis and characterization of a novel benzoxazine monomer with an epoxy group and its application as an additive <u>Hiroyuki Maekawa</u> , Asumi Shrestha, Toshiyuki Oyama

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Shunichiro Ito, presiding

13:45	2M16	Dispersion and orientation regulation of anisotropic CaCO3 filler in polylactic acid hara shuta, Keiya Kawamura, Atushi Furukawa, Kohki Takahashi, Akihiro Fukawa, Koichi Takase, Mitsuaki Kogo, Yoshiyuki Kojima, Shigeru Shimizu, Hiroki Ikake
14:00	2M17	Luminescence properties of chiral Eu(III) coordination polymers featuring three types of organic ligands Yuki Tomita, Mengfei Wang, Yuichi Kitagawa, Yasuchika Hasegawa
14:15	2M18	Morphological control and photophysical properties of Eu(III) coordination polymers <u>Masaki Enokido</u> ,Mengfei Wang,Yuichi Kitagawa,Yasuchika Hasegawa
14:30	2M19	Effect of Dispersant on Viscosity and Thermal Conductivity of Al2O3/PDMS Heat Dissipating Grease Keiichi Ishida,Shuhei Kanmuri,Seisuke Inada,Hiroya Ishida,Naoya Torikai

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Yasuchika Hasegawa, presiding

14:45 2M20 Polyphosphoester-stabilized photocatalytic silver nanocomposites Thanaporn Jullabuth, Yota Okuno, Yasuhiko Iwasaki

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Yasuchika Hasegawa, presiding

15:00	2M21	Development of ionic-conductive hybrids by combining deep eutectics and silsesquioxane <u>Tomohito INOUE</u> , Hideharu MORI
15:15	2M22	Construction of Stimuli-Responsive Electrically Conductive Composites Employing a Powdered Liquid Metal and Polymer Matrices

		<u>Shunichiro Ito,</u> Christopher Hiromi Shimamura,Kosei Yamada,Kazuo Tanaka
15:30	2M23	Director Rotation of Liquid Crystals inside the Pores of Pillared Layer MOFs as Temperature Shift <u>Yujiro Ichiko</u> ,Kenta Kokado,Shizuka Anan
	ľ	Vaoya Torikai, presiding
15:45	2M24	Reduction Behavior of Refractive Index in Fluorinated Polymer Hybrid Materials with Perfluoroalkylated POSS Fillers Tatsuaki Kunimitsu,Masayuki Gon,Kazuo Tanaka
16.00	01.605	•
16:00	2M25	Synthesis of fullerene C60 derivatives bearing functional carbohydrate residues <u>Mayu Morita</u> ,Jin Motoyanagi,Masahiko Minoda
16:15	2M26	Mechanical Properties of Composite with a Clay Coated by a Flexible Polymer Layer <u>Tetsuro Kamada</u> , Takuya Matsumoto, Takashi Nishino
16:30	2M27	Effect of side chain mobility in polymerized ionic liquid- coated nanoparticles on ionic conductivity <u>Natsuki Netsu</u> ,Yuna Kumasaka,Akito Masuhara
	I	Hiroshi Yabu, presiding
16:45	2M28	Circular Polarized Luminescence of Perovskite Quantum Dots synthesized in Chiral Supramolecular Gel <u>Hikaru Kashima</u> ,Naoya Ryu,Nanami Hano,Yospanya Wijak,Reiko Oda,Makoto Takafuji
17:00	2M29	Electrical conductivity and mechanical durability of polymeric materials incorporating silver nanocrystals <u>Yuka Horiguchi</u> ,Kohei Fukui,Hideyuki Nakanishi
17:15	2M30	Design and Properties of Novel Transparent Heat-Dissipating Materials <u>Tomoyuki Inoue</u>

Room N

Tue. Sep 16

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Yosuke Okamura, presiding 10:00 1N05 Bacterial capture and antibacterial properties of nanopillar hydrogels with different aspect ratios Yohei Kotsuchibashi 10:15 1N06 Towards combination therapy: chromophore-modified curdlan as a supramolecular theranostic material for saccharide recognition and singlet oxygen generation Yuna Urakami, Rio Ota, Gaku Fukuhara 10:30 1N07 Formation of polyion complex (PIC) aggregates consisting of anionic hyperbranched polymers and cationic linear diblock polymers

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Yosuke Okamura, presiding

10:45 1N08 Fabrication and characterization of chitosan/poly(trimethylene carbonate) nanofibers by electrospinning

Anchan Khankhuean, Ryohei Ikura, Hiroharu Ajiro

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Yohei Kotsuchibashi, presiding

11:00	1N09	Effects of Polymerization Rate on Nanocrystal Diffusion <u>Kazuto Uchida</u> , Takuto Iwaki, Hideyuki Nakanishi
11:15	1N10	Fabrication of Non-Spherical Polystyrene Nanoparticles using Dispersion Polymerization for Enhancing Antigen Detection Sensitivity in a Turbidimetric Immunoassay <u>Hayato Yokose</u> , Yosuke Okamura
11:30	1N11	Fabrication of Mesoporous Silica Discs Using Polymer Microparticles as a Template for Controlled Release of Fragrances Noriko Yokemura, Hayato Yokose, Masashi Higuchi, Yosuke Okamura
11:45	1N12	Extraction and functionalization of Cellulose Nanofibers from Tunicate by Ammonium Persulfate Oxidation Ryohei Kusumi,Shunsuke Murai,Daichi Kobayashi,Yu Maekawa,Zhu Huie,Aki Kashiwazaki,Masaya Mitsuishi

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Sadayuki Asaoka, presiding

13:00 1N13 Control of optical chiral alignment and rotation of twisted bipolar sphere

Makoto Okumura, Soh Kushida, Ken-ichi Yuyama, Yohei Yamamoyo

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Sadayuki Asaoka, presiding

13:15	1N14	Extraction of Cellulose Nanocrystal from Soybean Okara by Ammonium Persulfate Oxidation <u>Teruto Nagashima</u> ,Huie Zhu,Aki Kashiwazaki,Masaya Mitsuishi
13:30	1N15	Slow oxygen diffusion into nanocrystalline micelles showing oxygen-responsive persistent phosphorescence characteristics Riku Shimura,kikuya Hayashi,Shuzo Hirata

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Sadayuki Asaoka, presiding

13:45 1N16 Synthesis of Hollow Microsphere-immobilized Chinchonidium for Asymmetric Alkylation of Glycine Derivative Lilla Bugovich, Naoki Haraguchi

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Masaya Mitsuishi, presiding

14:00	1N17	Chiroptical properties of helicene molecules assembled on the surface of helical nanosilica Nicolas Zigon , Emilie Pouget, Sylvain Nlate , Fabien Durola, Narcis Avarvari, Makoto Takafuji, Reiko Oda
14:15	1N18	Elucidation of Light-Harvesting Mechanisms in Porphyrin- Based Cyclic Multilayer Assemblies and Their Application to Photoreduction Catalysis and Photovoltaic Devices Yoshito Murata, Teppei Akiyama, Sadayuki Asaoka

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Masaya Mitsuishi, presiding

14:30 1N19 Elucidation of the mechanism of thermally induced VCD signal amplification observed in helical nano-silica

<u>Yutaka Okazaki</u>, Thierry Buffeteau, Ju-yeon Jo, Naoya
Ryu, Kyohei Yoshida, Kan Hachiya, Takashi Sagawa, Reiko Oda

S3. Chemistry of dimensionally controlled polymers for novel functionality

15:50	1NSO	Introductory Remarks S3 <u>Seisuke Ata</u>
	Y	uki Kitanaka, presiding
16:00	1N25	Rational Design of Poly(phenylene sulfide) Derivatives with Ultra-low Dielectric Loss: Tuning Polarizable Functions and Network Structures <u>Seigo Watanabe</u> ,Yuto Nakamura,Shuma Miura,Kenichi Oyaizu
16:30	1N27	Photopatterning and low dielectric properties using photo- insolubilizable and thermosetting polysiloxanes <u>Yukai Ito</u> ,Nobuhiro Ishikawa,Kenyu Sugita,Masashi Nakamura,Daisuke Aoki,Koji Arimitsu
17:00	1N29	Photopatterning of low dielectric polymer materials by developing with alkali using the Claisen rearrangement <u>Kaname Hoshino</u> , Masashi Nakamura, Daisuke Aoki, Koji Arimitsu

Ryoyu Hifumi, presiding

17:30	1N31	Structural Control of Siloxane Polymers for Lowering Dielectric Constant and its Influence on Dielectric Properties <u>Masashi Nakamura</u> , Mitsuru Watanabe, Araki Masuyama, Seiji Watase
18:00	1N33	Surface coating of low-dielectric fluororesin via photo- assisted chemical solution deposition <u>Yuuki Kitanaka</u> ,Junichi Nomoto,Tomohiko Nakajima

Wed. Sep 17

S3. Chemistry of dimensionally controlled polymers for novel functionality

		Seisuke Ata, presiding
9:00	2N01	Development and Application of Low-Dielectric, Low-Loss Polymer Materials for High-Speed Data Transmission Masayuki Morino
9:30	2N03	Photonics-Electronics Fusion Device for Next Generation Mobile Communication Using Low-Dielectric Constant and Low-Dielectric Loss Material <u>Hiroshi Murata</u>
10:00	2N05	Improvement of Thermal Conductivity on Alumina PDMS Composite by the Alumina Surface Treatment <u>Masami SHINDO</u> ,Keiichi ISHIDA,Shuhei KANMURI,Seisuike INADA,Hiroya ISHIDA,Naoya TORIKAI
		Masayuki Morino, presiding
10:30	2N07	High Thermal Stability and Low Dielectric Resins Derived from Polysaccharide Esters <u>Yuya Fukata</u> ,Satoshi Kimura,Tadahisa Iwata
11:00	2N09	3D-printed absorbers for millimeter-wave and sub-terahertz applications <u>Genki Kuwano</u> ,Ryohei Hokari,Kazuma Kurihara,Kazuma Tsujioka,Yuya Tojima,Moto Kinoshita,Yuto Shoji
11:30	2N11	Synthesis of Semi-Aromatic Polyimides incorporating Double-Decker Shaped Silsesquioxane in the Main Chain for Low Dielectric Loss Natsuko Sashi, Erina Yoshida, Hayato Maeda, Kan Hatakeyama, Yuta Nabae, Ririka Sawada, Shinji Ando, Teruaki Hayakawa
		Masatoshi Hasegawa, presiding
13:00	2N13	Changes in resist internal composition and shapes occurring in dry oxidative trimming processes of ultraviolet nanoimprinted resists for silicon meta-optics Masaru Nakagawa, Naoki Takano, Hiromasa Niinomi, Tomoya Oshikiri
13:30	2N15	Synthesis and Low Dielectric Properties of Cyclic Olefin Polymers Containing Phosphine Sulfide Moieties Ryoyu Hifumi, Dongdong Zhou, Ikuyoshi Tomita
14:00	2N17	Infrared Spectroscopic Analysis of Water Sorption and Hydration Structures of Various Polyimides and the Correlation with their Dielectric Properties Measured at 10 GHz

Ririka Sawada, Haonan Liu, Shinji Ando

Masaru Nakagawa, presiding

14:30	2N19	Broadband (10–330 GHz) Dielectric Characterization of Polyimides for 5G/6G Mobile Communication Applications Haonan Liu, Ririka Sawada, Yoshiyuki Tsurusaki, Shana Yanagimoto, Yoshiyuki Yanagimoto, Shinji Ando
15:00	2N21	Modified Polyimides for use in Flexible Printed Circuit Boards for High-speed Data Communication (7) <u>Masatoshi Hasegawa</u> ,Taro Fukuda,Junichi Ishii
15:30	2N23	Development of a technology for forming smooth plated wiring on transparent polystyrene materials <u>Soichiro Murakami</u> ,Kazunori Suzuki,Yuta Sudo,Yumiko Miura,Mitsutoshi Toyama,Yasuhito Kimpara

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Takeo Suga, presiding

16:15	2N26	A Development of Recyclable Acrylic Adhesive Balancing Toughness and Relaxation by Polymer Knitting <u>Sho Kosaba</u> ,Kenji Yamaoka,Ryohei Ikura,Takayuki Arai,Yoshinori Takashima
16:30	2N27	Glueing of polyethylene films by enzyme reaction Takehiro Chiba,Atsushi Hoshi,Itsuki Hoshi,Keito Sugimori,Shiori Ujiie,Miwa Yamada, <u>Daisuke Sugimori</u>
16:45	2N28	Exploratory study on structure-property relationships of cyclic olefin copolymers (COCs) toward functional material development <u>Minori Inazu</u> , Masanobu Naito, Kotohiro Nomura
17:00	2N29	The formation mechanism of unusual surface structures formed by the Breath-Figure method <u>Masaki Kadoi</u> ,Khoa V. Le,Takeo Sasaki,Yumiko Naka
17:15	2N30	Preparation of structural adhesives containing hydrogen- bonded block polymer-based thermoplastic elastomers <u>Harumi Shimauchi</u> ,Takato Kajita,Saya Yamada,Mio Nishimoto,Junko Horiuchi,Yoshiro Fujii,Kazumasa Sakaguchi,Kazuo Hattori,Hiroshi Tamura,Tatsuya Kano,Takenobu Sakai,Atsushi Noro

Thu. Sep 18

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Masahiko Minoda, presiding

9:00	3N01	Anisotropic dismantling from an adhesion interface with spatially controlled chemical bond formation sites using a stimuli-responsive molecular layer Kento Higa, Miho Aizawa, Atsushi Shishido
9:15	3N02	Preparation of hydrogels containing nanofillers and analysis of their bacterial adhesion properties Saneyuki Kumada, Yuuki Hata, Takeshi Serizawa

9:30	3N03	Photo-induced Controlled Radical Polymerization and Microphase Domain Control of UV-cured Adhesives <u>Takeo Suga</u> , Naoki Uchida, Keita Kikuchi, Kenichi Oyaizu
	•	Jin Motoyanagi, presiding
9:45	3N04	Adhesion by Azide-terminated Sulfobetaine-type Polymer- grafted Silica Nanoparticles <u>Kota Suda</u> ,Raita Goseki,Motoyasu Kobayashi
10:00	3N05	Correlation between the functional evaluation of the tactile impression of writing comfort and the wettability and surface friction properties of paper Sawa Ishihara , Daishuke Ishii
10:15	3N06	Preparation of Amphiphilic Coatings Based on PDMS/PEG Multiblock Copolymers <u>Yuki Irie,</u> Tomoki Sato,Huie Zhu,Aki Kashiwazaki,Mitsuishi Masaya
]	Daisuke Ishii, presiding
10:30	3N07	Designing of novel biomimetic adhesive materials based on dopamine-appended polyoxazolines and their adhesive properties <u>Mahiro Tsusaka</u> , Yuri Miyatake, jin Motoyanagi, Masahiko Minoda
10:45	3N08	Construction of selective oil recovery system using superhydrophobic sponge including liquid metal Kodai Moribayashi, Hiroshi Endo, Makoto Gemmei

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Daisuke Ishii, presiding

11:00 3N09 Synthesis and Functionalization of Bioinspired Adhesive with Deep Eutectic Solvents (DES)
Paola Maria Mir Ihara, Masanobu Naito

Room O

Tue. Sep 16

D. BIOPOLYMERS AND BIORELATED POLYMERS

Ryosuke Mizuta, presiding

11:00	1009	Thermo-responsive micro-sized structured nanoparticles for targeted drug delivery <u>Sota Yamada</u> , Kenjiro Hanaoka
11:15	1010	Manipulation of temperature-sensitive channels based on cell membrane immobilized near-infrared photothermal polymer nanoheaters <u>Masao Kamimura</u> ,Yu Ochiai,Tomoki Iwashita,Yukino Nishikata,Hiroki Yamaguchi,Yutaro Matsushita

11:30	1011	Design and Application of Artesunate-Containing Polymers in Cancer Therapy <u>Natsumi Ito</u> ,Ahmed Nabil,Koichiro Uto,Mitsuhiro Ebara
11:45	1012	mRNA delivery using polysaccharide nanoparticles <u>Toshinori Sato</u> ,Yeoujia Lee,Yui Kaneko,Teruhiko Matsubara,Tohru Uchiyama
	To	omonari Tanaka, presiding
13:00	1013IL	Engineering Biomembrane-Based Nano-Hybrids to Construct Functional Biointerfaces <u>Yoshihiro Sasaki</u>

D. BIOPOLYMERS AND BIORELATED POLYMERS "English Session"

Shoichiro Asayama, presiding

14:15 Designable synthetic complex coacervates enabling protein delivery to cells

<u>Bing Jhang Li, Biplab K. C., Teruki Nii, Takeshi Mori, Yoshiki Katayama, Akihiro Kishimura</u>

D. BIOPOLYMERS AND BIORELATED POLYMERS

Shoichiro Asayama, presiding

	51	loichiro Asayama, presiding
14:30	1019	Development of foreign antigen-presenting cancer cell for novel immunotherapy <u>Shinichi Mochizuki</u> ,Aki Kakinami,Momona Ota,Sayaka Oitate
14:45	1020	Development of cancer cell membrane-coated nanoparticles and evaluation of cellular response <u>Fuka Yamanaka</u> ,Ryosuke Mizuta,Shin-ichi Sawada,Kazunari Akiyoshi,Yoshihiro Sasaki
15:00	1021	Synthesis of well-defined star-shaped zwitterionic polymers for the development of nucleic acid carriers Yuta Yoshizaki , Tomohiro Konno
	Ma	asao Kamimura, presiding
15:15	1022	Contribution of Chain Length of Polyglutamic Acid Derivatives Functionalized with Ligands of Proximal Enzymes on Cancer Cell Membrane to Proliferative Inhibition of Three- Dimensional Multicellular Tumor Spheroids Yuki Koba, Masahiko Nakamoto, Severine Domenichini, Juliette Vergnaud, Melanie Hery, Simona Mura, Michiya Matsusaki
15:30	1023	Structural optimization of estrogen-immobilized polyphosphodiesters showing bone affinity and ability to reduce osteoporotic bone resorption. <u>Sayako Takai</u> , Yota Okuno, Yasuhiko Iwasaki
15:45	1024	Inhibition Effect of Abeta Aggregation by Cholesterol-End- Modified PEG Vesicles/Micelles Shoichiro ASAYAMA,Shota WATANABE,Motoki UEDA
16:00	1025	Synthesis of Protease-Responsive Cello-oligosaccharide Particles for Loading of Antimicrobial Peptides <u>Thomas Takeru Sakata</u> , Yuuki Hata, Toshiki Sawada, Takeshi Serizawa

Toshiki Sawada, presiding

16:15	1026	Rational design of gold nanoparticle-DNA-polymer monoconjugates for targeted nucleic acid carriers <u>Sota Wada</u> ,Koki Shimizu,Masao Kamimura,Yoshitsugu Akiyama
16:30	1027	Regulation of tumor microenvironment sensitive aggregation property of poly(vinyl alcohol) functionalized with ursodeoxycholic acid based on negative charge and hydrophobicity <u>Kazuki Moroishi</u> , Masahiko Nakamoto, Ryohei Katayama, Michiya Matsuaki
16:45	1028	Mesenchymal Stem Cell Membrane-Coated Gelatin Nanoparticles for the Treatment of Liver Fibrosis <u>Mitsuru Ando</u> ,Keisuke Moriyama,Yasuhiko Tabata
	Ei	ji Yuba, presiding
17:00	1029	Analysis of the enhancement of anti-cancer activity and
	1019	binding to DNA by the polymerization effect of copper complexes and its active target with anti-immunogenic properties <u>Masatomo Kohro</u> , Masaru Mukai, Hidenori Otsuka
17:30	1031	binding to DNA by the polymerization effect of copper complexes and its active target with anti-immunogenic properties

Wed. Sep 17

D. BIOPOLYMERS AND BIORELATED POLYMERS

Akinori Kuzuya, presiding 9:00 2001 Development of M2 macrophage-targeting polysaccharidebased nanoparticles for photoacoustic imaging Risako Miura, Akio Tsutsumi, Mahiro Kagami, Yu Kimura, Teruyuki Kondo 9:30 2003 Hydration and biodistribution of dendrimers conjugating biocompatible polymers with different lengths and bound numbers Chie KOJIMA 10:00 2005 The kinetics of helix-contained disk-like polymeric micelles Yuki Mochida, Horacio Cabral, Yutaka Miura, Kensuke Osada, Nobuhiro Nishiyama, Kazunori Kataoka Chie Kojima, presiding 10:30 2007 Smart nanofibers toward local drug delivery Mitsuhiro Ebara 11:00 2009 The development of nuclear-targeting nanocarrier for drug resistant cancer therapy

Souma Kawashima, Koji Nagahama

D. BIOPOLYMERS AND BIORELATED POLYMERS "English Session"

Chie Kojima, presiding

11:30 2O11 Folate-conjugated artificial viral capsids modified with perfluoro ether peptides for selective cancer cell-targeted delivery of doxorubicin

<u>Avijit Ghosh, Yuka Yamamoto, Hiroshi Inaba, Takashi Okazoe, Yu Ota, Kazunori Matsuura</u>

D. BIOPOLYMERS AND BIORELATED POLYMERS

Yuki Mochida, presiding

13:00	2013	Design of terminal-alkylated PEGs with imine spacer for pDNA delivery into unexplored space of skeletal muscle SHOICHIRO ASAYAMA , RIKU OBA, YOKO TAKAHASHI, YOICHI NEGISHI
13:30	2015	Development of hyaluronic acid derivatives with anti- inflammatory activity and their application to treatment of rheumatoid arthritis model Aino Komoda, <u>Eiji Yuba</u>

D. BIOPOLYMERS AND BIORELATED POLYMERS "English Session"

Yuki Mochida, presiding

14:00 2O17 Design of electrospun nanofiber loaded with AMPT targeting the sympathetic nerve for the treatment of aortic dissection Kai Li, Hiromi Yanagisawa, Mitsuhiro Ebara

D. BIOPOLYMERS AND BIORELATED POLYMERS

Tetsuya Uchida, presiding

14:30	2019	Construction and Evaluation of Cancer Cell-Selective Drug Delivery System with Oligopeptide Kodai Ishikawa,Hirari Kato,Ayuki Katayama,Risa Shirato,Kana Muto,Mitsuyo Matsumoto,Yuki Yoshida,Yasuyuki Araki,Ikuhiko Nakase,Asako Yamayoshi,Kazuhiko Igarashi, <u>Takehiko Wada</u>
15:00	2021	Gut Antioxidants and Systemic Disorders <u>Yukio Nagasaki</u>
15:30	2023	Effect of Molecular Weight and Multivalency of Polyglutamic Acid Derivatives Targeting Carbonic Anhydrase IX Formed by Click Reaction on Cancer Cell Proliferation Rentaro Sakamoto, Yuki Koba, Masahiko Nakamoto, Michiya Matsusaki
15:45	2024	Controlled Cysteine Release and Optimized Pharmacokinetics via Poly(cysteine)-Based Polymer Micelles <u>Yuta Koda</u> ,Yuna Kosaka,Reo Nishimoto,Aki Funahashi,Yukio Nagasaki

Akifumi Kawamura, presiding

16:00	2025	Fabrication of DDS carriers that releases the appropriate amount of insulin depending on blood glucose levels as a disease signal Momona Iwata, Shogo Matsubara, Masahiro Higuchi
16:15	2026	A Coacervate Formed from Thermoresponsive Peptoid for Proteins Protection <u>Akari Yasuda</u> ,Yota Okuno,Akiyuki Ryoki,Tomoki Nishimura,Yasuhiko Iwasaki
16:30	2027	Design of a polymer chain having dipicolylamide structures and investigation on its metal complexes <u>Shigehito Osawa</u> , Tiancheng Wang, Iriki Utagawa
	M	lasahiro Higuchi, presiding
16:45	2028	Size control and renal cell selectivity of L-serine-modified PEGylated nanoparticles. <u>Chinatsu Otsuka</u> ,Shohei Shiomoto,Syuuhei Komatsu,Yoshitsugu Akiyama,Akihiko Kikuchi
17:00	2029	Design of pH-Responsive Gel Particles That Regulate Molecular Binding Ability by Conformational Changes <u>Yumemi Mizowaki</u> ,Tomoya Iwagaki,Akifumi Kawamura,Takashi Miyata
17:15	2030	Construction and Function of Biomembrane Nanocarriers Equipped with Microwave-Responsive Inorganic Nanoparticles <u>Yuchen Sha</u> ,Ryosuke Mizuta,Hikaru Takaya,Yoshihiro Sasaki,Kazunari Akiyoshi

Thu. Sep 18

D. BIOPOLYMERS AND BIORELATED POLYMERS

Akihiko Kikuchi, presiding 9:00 3001 Synthesis and nanoparticle characterization of Donor-Acceptor conjugated polymers for thermoresponsive DDS Koyuru Suzuki, Kazuaki Matsumura 9:15 3002 Zinc ion delivery into endoplasmic reticulum to reduce the oxidative stress Motoki Ueda, Misaki Shimuta, Shoichiro Asayama 9:30 3003 Self-assembly of chlorophyll dimers linked with diamide moieties and their supramolecular structural changes dependent on the π -linkages Yusuke Hirose, Tatsuma Ishii, Hitoshi Tamiaki, Shogo Matsubara 9:45 3004 Development of Surface-Engineered Nanotools for the Control and Visualization of Biomembrane Functions Shoya Sarata, Ryosuke Mizuta, Eisuke Kanao, Yasushi Ishihama, Kazunari Akiyoshi, Yoshihiro Sasaki Sayaka Toita, presiding Physical Properties and Applications of PEG-Coated Hollow 10:00 3005 Microcapsules Based on Metal-Phenolic Networks. Takeru Tsuda, Yuto Honda, J. Joseph Richardson, Rintaro Takahashi, Kyohei Muguruma, Haochen Guo, Yutaka Miura, Nobuhiro Nishiyama

10:30	3007	Automated Synthesis and Screening of Membrane-Active Amphiphilic Polymer Libraries <u>Kazuma Yasuhara</u> ,Yuiya Ishikawa,Sota Aoki,Gwenael Rapenne
	1	Coshinori Fujie, presiding
11:00	3009	Structure-Permeability Relationship of Sulfobetaine Polymers in GUV Membranes <u>Sayaka TOITA</u> ,Takuto TORIUMI,Nobuyuki MORIMOTO
11:30	3011	Stabilized Enzyme function using zwitterionic copolymer nanogels <u>Madoka Takai</u> ,Satoshi Yamashita,Xuejin Huang

Room Q

Tue. Sep 16

D. BIOPOLYMERS AND BIORELATED POLYMERS

Masaru Tanaka, presiding

10:00	1Q05	Fabrication and Characterization of Oleylamine-Grafted Alginate for the Co-differentiation of Satellite Cells and Adipose-Derived Stem Cells
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D. BIOPOLYMERS AND BIORELATED POLYMERS "English Session"

Masaru Tanaka, presiding

10:30 1Q07 Transplantation of hepatocyte sheet tissues secreting angiogenic factors produced by VEGF mRNA delivery Jun Kobayashi, Teruo Okano

D. BIOPOLYMERS AND BIORELATED POLYMERS

Masaru Tanaka, presiding

10:45 1Q08 Evaluation of cell capturing by water-soluble polymers modified with long-chain alkyl groups

<u>Erika Yoshihara, Gracia Une, Kimio Sumaru</u>

D. BIOPOLYMERS AND BIORELATED POLYMERS "English Session"

Tomoko Hashimoto, presiding

11:00	1Q09	Engineering the residence time and immune cloaking of
		mesenchymal stromal cells with microgel-coating to overcome
		chronic fibrotic remodeling
		Iksung Cho, Jae-Won Shin, Masaru Tanaka

D. BIOPOLYMERS AND BIORELATED POLYMERS

	1	Comoko Hashimoto, presiding
11:15	1Q10	Development of Photocurable Gelatin Hydrogel Fibers for Construction of Fibrous Cell Scaffolds <u>Hiroki Miyajima</u> ,Ke YANG,Naoya Hashimoto,Satoshi Fujita
11:30	1Q11	Synthesis of zwitterionic copolymers enhancing vitrification- induced preservation of three-dimensional tissues by intercellular permeation Yusuke Taoka,komal Raje,Kazuaki Matsumura
	S	Satoshi Fujita, presiding
13:00	1Q13	Elucidation of interactions between biomolecules and silk fibroin-based materials with different molecular structures <u>Tomoko Hashimoto</u> ,Kaho Kobayashi,Yichen Wang,Yasushi Tamada
13:15	1Q14	Development of biodegradable injectable gels with controlled mechanical properties by introducing branched structures and chemical cross-linking. <u>Yuki Shoda</u> , Yusuke Taoka, Yuichi Ohya
13:30	1Q15	Phenotypic control of macrophages by oriented nanofiber substrates <u>Nao Kawata</u> ,Koichiro Uto,Mitsuhiro Ebara
13:45	1Q16	Optimal Design of Cell Separation Columns for Mesenchymal Stem Cell Separation <u>Kenichi Nagase</u> ,Akari Okada,Junnosuke Matsuda
	J	Jun Nakanishi, presiding
14:00	1Q17	Cell Behavior on Photoresponsive Polypeptide Films That Undergo Conformational Changes by Light Exposure <u>Takashi Miyata</u> ,Yume Takao,Akifumi Kawamura
14:30	1Q19	Preparation of porous poly(ethylene glycol) hydrogels and application as cell scaffolds Shohei ishikawa,Si Jinyan,Hironori Hojo,Takamasa Sakai
15:00	1Q21	Development of Functional Cell Scaffolds that Provide Oxygen and Nutrients Tomioka Daisuke, <u>Michiya Matsusaki</u>
	1	Sukuru Masuda, presiding
15:30	1Q23	Creation of photo-crosslinkable gelatin scaffold to adjust cellular senescence by control of elastic modulus Kenta Homma, Tomoka Iida, Michiya Matsusaki
16:00	1Q25	Development of Fluid Cell Scaffolds and Their Application in Analyzing Cell Behavior <u>Jun Nakanishi</u>
16:30	1Q27	Construction of cell spheroids integrated with keratin-based artificial extracellular matrix

<u>Hibiki Sakata,</u>Yuki Tanaka,Wey Yih Heah,Hikaru Takaya,Youhei Yamamoto,Ryosuke Mizuta,Kazunari Akiyoshi,Yoshihiro Sasaki

Kazuo Tanaka, presiding

17:00	1Q29	Phase-Separation Induced Porous Polymer Nanosheets for Cell-Encapsulated Devices <u>Toshinori Fujie, Mahiro Suzuki, Atena Endo, Nanami</u> Zushi, Nobuaki Shiraki, Shoen Kume
17:30	1Q31	The Second Wave of Formose Research <u>Akihito Hashidzume</u>
18:00	1Q33	Evaluation of Cellular Responses to Degraded Organic Micro- and Nanoparticles

Wed. Sep 17

D. BIOPOLYMERS AND BIORELATED POLYMERS

Hidenori Otsuka, presiding

9:15	2Q02	Development of glycopolymer-modified antibodies using glycocluster effect <u>Zenya Naraoka</u> ,Sakura Kawahara,Ryohei Miyagawa,Yoshiyuki Manabe,Koichi Fukase,Tomonari Tanaka
9:30	2Q03	Development and functional evaluation of LYTAC agents via Siglec-E using glycopolymers <u>Tsuyoshi Ochi</u> ,Masanori Nagao,Hikaru Matsumoto,Hirohiko Ise,Yoshiko Miura
9:45	2Q04	Evaluation of the effect of Hydration State of Glycopolymers on Molecular Recognition <u>Yoko Kitsuki</u> ,Nagao Masanori,hikaru Matsumoto,Masaru Tanaka,Yukiko Tanaka,Takumi Yamaguchi,Mafumi Hishida,Yoshiko Miura

D. BIOPOLYMERS AND BIORELATED POLYMERS "English Session"

Hidenori Otsuka, presiding

10:00 2Q05 Amino Acid Functional Polymers for Cellulose Binding:
Insights into Biomimetic Interactions of Synthetic Polymers
Oscar Carias, Tomonari Tanaka

D. BIOPOLYMERS AND BIORELATED POLYMERS

Jun-ichi Kadokawa, presiding

10:15	2Q06	Precise Synthesis of Cyclic Glycopolymers by Oligomer
		Conjugation
		Yusuke Kumon, Masanori Nagao, Hikaru Matsumoto, Teruhiko
		Matsubara, Toshinori Sato, Yoshiko Miura

10:30	2Q07	Structural investigation and molecular conformation of the glucomannan extracted from the β -glucanase hydrolyzed cell wall of Cyberlindnera jadinii Momoko Koide, Kazuto Yoshiba, Tadayoshi Katsumata, Yusuke Fukuda, yasuhito Yokoi
10:45	2Q08	Selective H/D exchange and Properties of Deuterated Bacterial Cellulose by Fabrication in Deuterium Oxide <u>Rintaro Furukawa</u> ,Takuya Matsumoto,Takashi Nishino
11:00	2Q09	Molecular Alignment Control of Terminally Hexylated Cello- oligosaccharides: Effects of Assembly Temperature and Oligosaccharide Chain Length Ryosuke Hokimoto, Yuuki Hata, Takeshi Serizawa
	м	asanori Nagao, presiding
11:15	2Q10	Synthesis of Block Polysaccharides by Glucan Phosphorylase- Catalyzed Enzymatic Polymerization <u>Hayato Ishii</u> ,Tao Takagaki,Masayasu Totani,Jun-ichi Kadokawa
11:30	2Q11	Development of Injectable Hydrogels <u>Aoi Takahashi</u>
11:45	2Q12	Block Copolymerization of Polymeric Transition Metal Complexes with Cationic Glycopolymers Improves Membrane Transmission and Enhances Anticancer Activity <u>Kazuki Anami</u> ,Masaru Mukai,Hidenori Otsuka
	To	omonari Tanaka, presiding
13:00	2Q13	Fabrication, Properties, and Functions of All-chitin Composites <u>Masayasu Totani</u> ,Mako Eda,Hiroyuki Shinchi,Jun-ichi Kadokawa
13:30	2Q15	Effect of Structural Definition in Glycopolymers on Biomolecular Recognition Thermodynamics <u>Masanori Nagao</u> ,Daichi Yoshimatsu,Yu Hoshino,Yoshiko Miura
14:00	2Q17	Guanidinylated nanochitins dispersible at neutral pH <u>Hironori Izawa</u> ,Kensei Sone,Ando Sota
	Ke	osuke Okeyoshi, presiding
14:30	2Q19	Development of antifouling coating materials by combining zwitterionic polymers and zeolites <u>Ayaka Moroto</u> , Tadashi Nakaji, Akira Taguchi, Yoshikazu Horino, Shuhei Yasuda
14:45	2Q20	Regulation of Cell-Free Membrane Protein Synthesis Reactions for Developing a Flow-Based Synthesis System <u>Hikaru Kimura</u> ,Ryosuke Mizuta,Mitsuru Ando,Yoshihiro Sasaki
15:00	2Q21	Correlation between density of microstructures and microfriction forces on aqua-gel surfaces Masaki Kato, Daisuke Ishii
15:15	2Q22	Synthesis and fundamental properties of fully biomolecular ionic gels for medical application. <u>Mana Ikezoe</u> ,Kazuki Murai

Yu Hoshino, presiding

15:30	2Q23	Fabrication of Cell Assembly technology Driven by Thermoresponsive Triple Helix Formation of Collagen Model Peptides <u>Kazuki Yoshida</u> ,Michiya Matsusaki
15:45	2Q24	Design of enzyme-responsive polymers showing liquid-liquid phase separation Yuka Morioka,Rei Kusunose,Atsushi Maruyama, <u>Naohiko Shimada</u>
16:00	2Q25	Formation of periodic open-close microstructures as drying records of aqueous polymer dispersions <u>Masaya Ninomiya</u> ,Yuto Watanabe,Kosuke Okeyoshi
16:15	2Q26	Development of target enzyme-gated photo-induced living radical polymerization and intracellular synthesis of poly L-phenylalanine methacrylamide Kanta Ogura , Masahiko Nakamoto, Michiya Matsusaki

D. BIOPOLYMERS AND BIORELATED POLYMERS "English Session"

Hiroyasu Yamaguchi, presiding

16:30	2Q27	Serine Containing Synthetic Polymers: Study of Structure Based Interactive Behavior to Use as an Anti-inflammatory Agent
		Sharker Komol Kanta, Kosuke Sato, Mitsuhiro
		Ebara, Masayuki Yokoyama, Koichi Shiraishi

D. BIOPOLYMERS AND BIORELATED POLYMERS

Hiroyasu Yamaguchi, presiding Bevelopment of a Target Peptide-Directed Dynamic

16:45	2Q28	Combinatorial Library for Rapid Screening of Precision Oligomers Hayato Tada, Honoka Moriguchi, Shota Iseri, Sotaro Tsuji, Yukiko Nagai, Yu Hoshino
17:00	2Q29	Development of Artificial Acylation Catalysts via Peptide Molecular Recognition and Local pKa Modulation in Hydrogel Nanoparticles <u>Sotaro Tsuji</u> , Yu Hoshino
17:15	2Q30	Construction of immune cell membrane-coated nanoparticles by biomembrane printing and evaluation of biological response <u>Fumino Ohtsu</u> , Yuki Yazawa, Ryosuke Mizuta, Yoshihiro Sasaki

Thu. Sep 18

D. BIOPOLYMERS AND BIORELATED POLYMERS

Yuji Teramura, presiding

9:00	3Q01	Multiphase Coacervates Prepared from Side-Chain-Modified Cationic Polymers and Their Phase-Selective Encapsulation of Proteins Gakuto Takeda, Hiroshi Kamizawa, Teruki Nii, Takeshi Mori, Akihiro Kishimura
9:30	3Q03	Design and application of bio-inspired polymers for selective recognition of heavy metal ions <u>Masaki Nakahata</u> , Yuri Kamon, Akihito Hashidzume
10:00	3Q05	Fabrication of stretchable adhesive films leveraging hydrogen bonds from gallol and urea derivatives <u>Daiki Sekita</u> ,Hajime Fujita,Yosuke Mizuno,Tatsuhiro Horii,Takeshi Hata,Toshinori Fujie
	T	akeshi Mori, presiding
10:30	3Q07	Nanostructuring of microfibrous medical materials via self- assembly of cello-oligosaccharides for microorganism control <u>Yuuki Hata</u> ,Sayaka Okamoto,Yudai Mizuuchi,Hiromi Miyazaki,Shingo Nakamura,Takeshi Serizawa
11:00	3Q09	Development of Fusion-Inducible Cell Interfaces via CPP-Conjugated PEG-Lipids <u>Yuya Sato</u> , Yuji Teramura

Room R

Tue. Sep 16

D. BIOPOLYMERS AND BIORELATED POLYMERS

Takehiko Wada, presiding 10:00 1R05 Design and selective delivery of antisense nucleic acids using acyclic artificial nucleic acids Hiroyuki Asanuma, Fuminori Sato, Kiyoka Sakashita, Yuhei Noda, Noritoshi Kato, Yukiko Kamiya 10:30 1R07 Artificial chaperone-enhanced DNA enzyme to sense blood microRNA Kenta Fujii, Kotaro Wakamatsu, Minako Saito, Naohiko Shimada, Atsushi Maruyama Hiroyuki Asanuma, presiding 11:00 1R09 Developments of Artificial Nucleic Acid Drugs with Highly Efficient Catalytic Target RNA Cleavage Function Mion Kino, Yuki Igarashi, Ayuki Katayama, Risa Shirato, Kana Muto, Kazuyo Matsumoto, Yuki Yoshida, Masahito Inagaki, Yasuyuki Araki, Hironori Hayashi, Eiichi Kodama, Kazuhiko Igarashi, Takehiko WADA 11:30 1R11 Functional prediction of DNAzyme using improved nearestneighbor parameters Shuntaro Takahashi, Saptarshi Ghosh, Tomohiro Nishimra, Hisae Tateishi-Karimata, Tsukasa Fukunaga, Michiaki Hamada, Naoki Sugimoto

Shuntaro Takahashi, presiding

13:00	1R13	Induction of bundling of intracellular microtubules by tetrameric proteins and control of cell shapes <u>Soei Watari</u> ,Hiroshi Inaba,Takanari Inoue,Kazunori Matsuura
13:30	1R15	Intracellular Drug Delivery using Enveloped Viral Replica Equipped with Hemagglutinin. Sosuke Nakamura, Hiroto Furukawa, Hiroshi Inaba, Yoshihiro Sasaki, Kazunari Akiyoshi, Kazunori Matsuura
	H	iroshi Inaba, presiding
14:00	1R17	In-cell formation of rolled protein ribbon <u>Koki Date</u> ,Kosuke Kikuchi,Souta Masumura,Keiichi Okisawa,Toan PHAM Thuc,Hironari Kamikubo,Takafumi Ueno
14:30	1R19	Solid-solid phase transitions by designing interfaces of in-cell protein crystals Kosuke Kikuchi , Misaki Nagama, Junko Tanaka, Haonan Kong, Satoshi Abe, Takafumi Ueno
	H	iroyasu Yamaguchi, presiding
15:00	1R21IL	Concept of Polymeric Materials for Medical Applications from a Clinical Perspective <u>Tooru Ooya</u>
	Ta	akeshi Serizawa, presiding
16:00	1R25	Poly(sarocosine) conjugated protein: the effect of the protein structure and immune response of mice Yota Okuno , Noritomo Tsuda, Akari Yasuda, Mitsuru Ando, Yasuhiko Iwasaki

D. BIOPOLYMERS AND BIORELATED POLYMERS "English Session"

Takeshi Serizawa, presiding

16:15 1R26 Structure and function of the C-terminal domain in the self-assembly of spider dragline silk protein
Nur Alia Oktaviani, Ali Malay, Mami Goto, Keiji Numata

D. BIOPOLYMERS AND BIORELATED POLYMERS

Takeshi Serizawa, presiding

16:30	1R27	Design and Biomedical Application of Keratin Microspheres for controlled release of protein <u>YINONG HUANG</u> ,Yua Tanaka,Wey Yih Heah,Hikaru Takaya,Yohei Yamamoto,Hibiki Sakata,Ryosuke Mizuta,Kazunari Akiyoshi,Yoshihiro Sasaki	
16:45	1R28	Investigation of Substrate Specificity and Identification of Key Residues for L-Thr Adenylation in Modules 2 and 10 of the Polymyxin D Non-ribosomal Peptide Synthetase from Paenibacillus polymyxa <u>Wataru Ando</u> , Taichi Mano, Mai Nemoto, Toshihisa Mizuno	
Yasuhiko Iwasaki, presiding			
17:00	1R29	Biohybrid LH2 Bearing Fluorophores: Spectral Changes in B850 band and Energy Transfer from Fluorophores to B850	

		<u>Seiya Takamori,</u> Ryoga Morishita,Sora Ishikawa,Kazuki Inada,Masaharu Kondo,Yukihiro Kimura,Yutaka Nagasawa,Takehisa Dewa
17:15	1R30	Construction of a Semi-Artificial Photosynthetic System Using Light-Harvesting 1—Reaction Center Core Complex (LH1-RC) and Semiconductor Photocatalysts. Ryo Kokubo, Ryuki Ito, Akane Kakami, Masaharu Kondo, Hajime Suzuki, Ryu Abe, Takehisa Dewa
17:30	1R31	Protein contributions to the assembly and function of the pH-responsive protein ribbon <u>Souta Masumura</u> ,Koki Date,Keiichi Okisawa,Kosuke Kikuchi,Takafumi Ueno
	1	akehisa Dewa, presiding
17:45	1R32	Antigenicity of polycarboxybetaine: effect of particle size and antibody induction pathway <u>Tomonao Iwamoto</u> ,Shingo Miyata,Shingo Kobayashi,Yuji Higaki,Teruki Nii,Akihiro Kishimura,Taro Shimizu,Yoshiki Katayama,Tatsuhiro Ishida,Chie Kojima,Masaru Tanaka,Mazaya Najmina,Takeshi Mori
18:00	1R33	Inhibition of Amyloid-Beta Peptide Aggregation Using Genetically Engineered Filamentous Viruses <u>Haruka Takahashi,</u> Takeshi Serizawa,Toshiki Sawada
18:15	1R34	Evaluation of Hydration state of a lysozyme aqueous solution induced by 280 GHz irradiation

Wed. Sep 17

D. BIOPOLYMERS AND BIORELATED POLYMERS

Yusuke Kambe, presiding

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D. BIOPOLYMERS AND BIORELATED POLYMERS "English Session"

Hideyuki Mitomo, presiding

10:15 2R06 Design of Metal-Organic Framework Composite Nanofibers for Electrotherapy of Glioblastoma Cell
Shiqin Dai, Ahmed Nabil, Mitsuhiro Ebara

D. BIOPOLYMERS AND BIORELATED POLYMERS

Hideyuki Mitomo, presiding

10:30	2R07	Decellularized ECM hydrogels for vascular tissue regeneration Chisato Oishi, Mia Morimoto, Sachiro Kakinoki, Takahiko Nakaoki, Atsushi Mahara
10:45	2R08	Development of photoelectric dyes immobilized retinal prosthesis using TEMPO-oxidized cellulose pulp with swollen fibers
		Ayato Nishimura,Naotaka Kimura,Tetsuya Uchida
11:00	2R09	Surface modification of poly(lactic acid)-based biomaterials with novel biocompatible peptides. <u>Ryoto Mizuno</u> ,Tetsuji Yamaoka,Tomoko Hashimoto
	7	retsuji Yamaoka, presiding
11:15	2R10	Blood Purification System Using Nano-NaCoHCF Loaded Nanofibers <u>Makoto Sasaki</u> ,Mitsuhiro Ebara
11:30	2R11	Phenylglyoxaldehyde-Functionalized Nanofibers for Chemically Adsorptive Urea Removal from Blood <u>Keigo Sugahara</u> , Makoto Sasaki, Mitsuhiro Ebara
11:45	2R12	Enhanced degradation/solubility of silk fibroin film for preventing post-operative adhesion <u>Yusuke Kambe</u> , Makoto Sasaki, Tsunenori Kameda
	I	Kazuma Yasuhara, presiding
13:00	2R13	Stent coating for intracranial aneurysm treatment and in vitro and in vivo evaluation of endothelialization <u>Yuji Teramura</u> ,Naoki Inuzuka,Yasuhiro Shobayashi,Tateshima Satoshi
13:30	2R15	Bipedal DNA walker sensor on gold nanoparticles for microRNA Detection in Cells Wenting Wei,Han Lin,Kuniharu Ijiro, <u>Hideyuki Mitomo</u>
14:00	2R17	Analysis of blood-compatible polymer hydration state and polymer dynamics using NMR <u>Naoya Kurahashi</u> ,Yukikazu Takeoka,Masaru Tanaka
	I	Koji Nagahama, presiding
14:30	2R19	Microvascular imaging on MRI with supramolecular structure of MR contrast agents Atsushi Mahara, Xin Tian, Kinari Saito, Sara Yano, Takahiko Nakaoki
15:00	2R21	Cello-oligosaccharide Nanosheets as Solid Supports for Anti- PEG Antibody Assays

		<u>Kai Sugiura,</u> Yuuki Hata,Koichiro Ishibashi,Koichi Shiraishi,Toshiki Sawada,Hiroshi Tanaka,Go Watanabe,Takeshi Serizawa
15:30	2R23	Fabrication of water-repellent nanosheet for wide, deep, and minimally invasive brain imaging accessories <u>Yosuke Okamura</u> , Taiga Takahashi, Hong Zhang, Rai Uchida, Sota Iwasawa, Kenji Yarinome, Kohei Otomo, Tomomi Nemoto
	Y	osuke Okamura, presiding
16:00	2R25	Correration of biocompatibility and side-chain orientation of polymers Kentaro Saito,Masaru Tanaka, <u>Daiki Murakami</u>
16:30	2R27	Stimuli-responsive and self-assembled materials forming tissue protective ultra thin layer Tetsuji Yamaoka , Ayane Murakami, Remi Sato
17:00	2R29	Development of Glowing Surgical Devices Dyed with Indocyanine Green and Evaluation for Clinical Applications <u>Shinji Ando</u> ,Yoshihiko Tashiro,Hidekazu Yasunaga

Thu. Sep 18

E. POLYMERS AND ENVIRONMENT

	Y	asuteru Mawatari, presiding		
9:00	3R01	Analysis of polymer decomposition at the water interface <u>Manabu Inutsuka</u> ,Hirohmi Watanabe,Masaru Aoyagi		
9:15	3R02	Evaluation of degradation in PET bottles exposed under outdoor weathering for long time <u>Hiejima Hiejima</u> , Tatsuki Tsukuba, Shin-ichi Kuroda		
9:30	3R03	Peptide Sensor-Based Identification and Surface Characterization of Polymeric Nanoparticles <u>Shion Hasegawa</u> ,Toshiki Sawada,Yuzo Kitazawa,Masahiro Nagaoka,Takuya Kaneda,Takeshi Serizawa		
Takeshi Serizawa, presiding				
10:00	3R05	Mechanochemical Synthesis of Poly(arylacetylene)s and the Effect of Additives on Molecular Structure <u>Haruki Ikushima</u> ,Yasuteru Mawatari		
10:15	3R06	Synthesis of polysulfide polymers in water at room temperature and degradability characterization of sulfurcontaining polymers from waste sulfur Ryunosuke Kamioka, Yuichiro Kobayashi, Hiroyasu Yamaguchi		
	F	Iiroyasu Yamaguchi, presiding		
10:45	3R08	Change in Crystal Orientation of Isotactic Polypropylene Induced by UV Irradiation <u>Kai Chen</u> ,YingJun An,Akemi Kumagai,Tomoko Kajiwara,Tomohiro Miyata,Atsushi Takahara,Hiroshi Jinnai		

E. POLYMERS AND ENVIRONMENT "English Session"

Hiroyasu Yamaguchi, presiding

11:00	3R09	Facile chemical degradation and upcycling of Nitrile
		butadiene rubber
		Yahui Gu, Masanobu Naito

E. POLYMERS AND ENVIRONMENT

Hiroyasu Yamaguchi, presiding

		inioyasu Tamaguciii, presiding
11:15	3R10	Preparation of dismantlable hot-melt adhesive using the photothermal effect of lignin <u>Daiki Morimoto</u> , Akihide Sugawara, Hiroshi Uyama
11:30	3R11	Alkylation of Cellulose with Epoxide by Addition of Bulky Organic Superbase Catalyst <u>Yume Takanishi</u> ,Tatsuya Nishida,Daisuke Hirose,Katsuhiro Maeda
		Ikuyoshi Tomita, presiding
13:00	3R13	Performance Enhancement of Silica Nanoparticle-Embedded Polymer Gas Separation Membranes for Resource-Circulating Direct Air Capture <u>Masafumi Yamato</u> , Chisato Minami, Hiroyoshi Kawakami
13:30	3R15	Memory effect on physical property recovery of recycled PP materials Shuichi Maeda , Hideaki Obuchi, Shigeru Yao
14:00	3R17	Dissolution, Dispersion and Reaction of Hardly Soluble Polymers by the Addition of Bulky Organic Superbase <u>Tatsuya Nishida</u> ,Daisuke Hirose,Katsuhiro Maeda
		Daisuke Hirose, presiding
14:30	3R19	Dimethyl Carbonate-aided Methanolysis Combined with Ball-milling Approach Shinji Tanaka, Azusa Togo, Atsuko Ogawa, Hibiki Ogiwara, Yumiko Nakajima, Masaru Yoshida
15:00	3R21	Polythiophene Film-Based Photoanode to Oxidize Water at Tremendously Low Onset Potential <u>Hiromi SHINOHARA</u> ,Hiroyuki NISHIDE
15:30	3R23	Degradation of polyphenylene ether and its derivatives under acidic conditionsStudy on degradation behavior and its application to decross-linking process- <u>Tsuyoshi Takano</u> ,Ryoyu Hifumi,Ikuyoshi Tomita

Room S

Tue. Sep 16

E. POLYMERS AND ENVIRONMENT

Fumio Sanda, presiding

	13:00	1S13IL	Pressure Sensitive Polymer Opportunities
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<u>Ikuo Taniguchi</u>

Yuko Takeoka, presiding

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14:0	00 1817	Elucidation of the Enzymatic Degradation Mechanism of Degradable block copolymers with Low-Temperature Formability Yutaro Shimizu, Ikuo Taniguchi
14:	15 1S18	Mechanical Properties of Natural Rubber Composites with Calcium-Crosslinked Alginate <u>Tianyi Ma</u> , Hiromitsu Sogawa, Fumio Sanda
14:3	30 1819	Solid-State Synthesis and Depolymerization of Optically Active Aromatic Schiff Base Polymers <u>Hiroya Endo</u> ,Hiromitsu Sogawa,Fumio Sanda
		Hiromitsu Sogawa, presiding
14:4	45 1S20	Surface modification of biodegradable polymer / hydroxyapatite complex (III) -Investigation of surface grafting of PLLA- Rin Ito, Masahiro Fujita, Masahiro Rikukawa, Yuko Takeoka
15:0	00 1821	Development of high-tough composite materials consisting of biodegradable polymers and hydroxyapatite (III) -Effect of hydroxyapatite - <u>SHENGTAO WANG</u> , Masahiro Fujita, Masahiro Rikukawa, Yuko Takeoka
15:	15 1822	Evaluation of catalytic activity of calcium phosphate ceramics for biodegradable polymers (V) - The effect of substituted metal species - <u>Misaki Okamura</u> , Masahiro Fujita, Masahiro Rikukawa, Yuko Takeoka
15:3	30 1823	Interface control of biodegradable polymer/phosphate ceramics composites (V) - Effect of modification by using hydroxy acids - Rumi Nishimura, Masahiro Fujita, Masahiro Rikukawa, Yuko Takeoka
		Harumi Sato, presiding
15:4	45 1S24	The Development of Thermoplastic Cellulose Material through Mixed Esterification of Long and Short Side Chains Ruochun WANG, Tadahisa IWATA
16:0	00 1825	Improvement of Thermoformability and Mechanical Properties of Low-Substituted Cellulose Acetate Using Marine-Biodegradable Lactic Acid Oligomers <u>Jin Ho Seok</u> , Tadahisa Iwata
		Koji Yamada, presiding
16:	15 1S26	Marine degradation process of P(3HB) and P(3HB-co-4HB) by Raman spectroscopy Yuma Yamada, Harumi Sato
16:3	30 1827	Measurement of PBSA intermediates during biodegradation: Implications for degradation processes in marine environments
		Ryo Fujita,Chihiro Nouda,Tetsuhiro Watano,Takaki Mine,Hiroaki Takemori,Makoto Yasojima
17:0	00 1S29	Photodegradation and Marine Biodegradation of Poly(butylene succinate) and Poly(butylene succinate-co-adipate)

Adchara Padermshoke, Yingjun An, Tomoko Kajiwara, Hiroyasu Masunaga, Yutaka Kobayashi, Hiroshi Ito, Sono Sasaki, Hiroshi Noguchi, Atsushi Kusuno, Atsushi Takahara

Toshikazu Sakaguchi, presiding

17:15	1830	Modification of aliphatic polycarbonates through the incorporation of cyclodextrin and their ammonolysis Shuto Uchiumi, Toyokazu Tsutsuba, Tatsuo Taniguchi, Daisuke Aoki
17:30	1S31	Synthesis of carbohydrate-based aliphatic polycarbonate containing oxalate linkages and its recycle system Shunsuke Fujimata , Tatsuo Taniguchi, Daisuke Aoki
17:45	1832	Synthesis of Block Copolymers Containing Catechol and Its Analogues and Evaluation of the Interaction with Metal Substrate Haruki Sekiya, Kaori Tanimoto, Shiho Tanizaki, Hexuan Mao, Xiaobin Liang, Ken Nakajima, Tomohiro Kubo, Kotaro Satoh
	Ko	otaro Satoh, presiding
18:00	1S33	Development of Chemically Recyclable Phenolic Resins with Acetal Bonds <u>Sae Urano</u> ,Michio Urushisaki,Toshikazu Sakaguchi,Tamotsu Hashimoto
18:15	1S34	Synthesis of Various Types of Polypropylenes Having Maleic Anhydride Units at Their Terminals and Development of High-Performance Thermoplastic Carbon Fiber-Reinforced Plastics Using Them Kazuki Akimoto , Michio Urushisaki, Ayaka Yamaguchi, Hideyuki Uematsu, Toshikazu Sakaguchi, Tamotsu Hashimoto

Wed. Sep 17

E. POLYMERS AND ENVIRONMENT

Olaf Karthaus, presiding

9:00	2801	Synthesis and Characterization of Biobased Elastomers Consisting of Carbohydrate-Derived Components <u>Yu Oishi</u> ,Sho Fukushima,Weeranuch Lang,Takuya Yamamoto,Feng Li,Redouane Borsali,Toshifumi Satoh,Takuya Isono	
9:15	2S02	Sustainable Polysaccharides/Polyacetals Synthesized from Cellulose-Derived Compounds <u>Feng Li</u> ,Yuta Mizukami,Yuto Kakehi,Takayuki Nagai,Takuya Yamamoto,Kenji Tajima,Takuya Isono,Toshifumi Satoh	
9:30	2S03	Synthesis and Characterization of Fully Biobased Triblock Copolymers Bearing Poly(vinylcatechol) Segments for Tough Adhesive Applications Shin Inagaki, Hideki Abe	
Toshifumi Satoh, presiding			
9:45	2S04	Basic research for the preparation of alternative materials for plastics of Fomes Fomentarius Ryuya Abe ,Olaf Karthaus,Tomohisa Suzuki	

10:00	2S05	Preparation and biodegradability evaluation of naturally derived polyisoprene rubber with controlled crosslink structure <u>Amane Tamaki</u> , Dian Zhang, Shintaro Nakagawa, Naoko Yoshie
10:15	2S06	Synthesis of bio-based polymers from tartaric acid <u>Taisuke Jindai</u> ,Shinnosuke Nishimura,Tomoyuki Koga
	7	Yoshikuni Teramoto, presiding
10:30	2S07	Synthesis and Characterization of Aromatic Polyesters from a-Resorcylic Acid <u>Tatsuya Goto</u> ,Kanta Tominaga,Yukihide Shiraishi
10:45	2S08	Synthesis and properties of bio-epoxy resins derived from natural phenol compounds Shinji Kanehashi , Kaito Furukawa
	E. POL	YMERS AND ENVIRONMENT "English Session"
		Jackiburni Toromata, mrosiding
11:00	2S09	Yoshikuni Teramoto, presiding Influence of Photocyidation on the Surface Chemistry and
11:00	2509	Influence of Photooxidation on the Surface Chemistry and Biodegradability of Aliphatic Polyamide <u>Yingjun AN</u> ,Adchara PADERMSHOKE,Tomoko KAJIWARA,Dai-ichiro KATO,Haruki MOKUDAI,Takashi MASAKI,Hiroyasu MASUNAGA,Yutaka KOBAYASHI,Hiroshi ITO,Sono SASAKI,Atsushi TAKAHARA
	\$	Shinnosuke Nishimura, presiding
11:15	2S10	Role of a baroplastic copolymer on the efficient processing of poly(L-lactide) <u>Neha Sharma</u> , Tsuyoshi Koga, Shigeru Deguchi, Ikuo Taniguchi
11:30	2S11	Chemically Recyclable Polythioesters via Ring-opening Polymerization of a Vitamin C-derived Monomer Maxym Tansky, Tomohiro Kubo, Kotaro Satoh
11:45	2S12	Assessment of Zein Solubility in Various Solvents via NMR Relaxation and Hansen Parameters: Film Fabrication and Comparison with Conventional Industrial Solvent Soubani Baidya, Bapan Adak, Toshiyuki Takano, Yoshikuni Teramoto
		E. POLYMERS AND ENVIRONMENT
	1	Keita Sakakibara, presiding
13:00	2S13	Synthesis of Novel Polymers by Ring-Opening Polymerization of Epoxides Derived from Cellulose Pyrolysates <u>Hiroto Ayakawa</u> , Tianle Gao, Takuya Yamamoto, Feng Li, Takuya Isono, Toshifumi Satoh
13:30	2S15	Improvement of Thermal Stability in Cellulose Fatty Acid Esters through Crystallization Control <u>Yoshiki Nakashima</u> ,Shinobu Yokokawa,Hideki Tanaka,Naoyuki Toyoda,Midori Yamashiro,Shukichi Tanaka
14:00	2S17	Polymerization of bis-limonene cyclic carbonate and its properties <u>Hisatoyo Morinaga</u> ,Takumi Inoue

Hisatoyo Morinaga, presiding

14:30	2S19	Synthesis of Various Branched Polyacetal with Polyaddition of Glycerol <u>Yusaku Tajima</u> ,Tomohiro Kubo,Kotaro Satoh
15:00	2S21	Fabrication and Mechanical Property Evaluation of Highly Dispersed Nanocellulose Composites Using PP Reactor Powder Koyuru Nakayama, Toru Wada, Toshiaki Taniike, Keita Sakakibara
15:30	2S23	Manufacturing, functionality, and observation of porous-fiber using microbial polyester <u>Taizo Kabe</u> ,Kohei Toyosaki,Tadahisa Iwata
	T	aizo Kabe, presiding
16:00	2S25	Effect of Material Morphology on Biodegradation of Bacterial P(3HB) by Varioborax sp. <u>Daisuke Ishii, Mayu Tsuruga, Chihiro Mimura, Souta</u> Kinoshita, Tomoko Seyama, Haruhiko Masaki, Masatake Kanai
16:30	2S27	Synthesis and biodegradability of alternating copoly(esteramide)s with amino acid of different stereocompositions Senri Hayashi, Tomohiro Hiraishi, Hideki Abe
17:00	2S29	Development of High-Strength Microfibers Based on Nanofibrillated Bacterial Cellulose Ryosuke Yokota, Yui Kawabata, Haruto Tsujisaki, Chaehun Lee, Moe Araida, Yoshifumi Yamagata, Takuya Isono, Toshifumi Satoh, Hirofumi Tani, Kenji Tajima

Thu. Sep 18

E. POLYMERS AND ENVIRONMENT

Akihide Sugawara, presiding 9:00 3S01 Bamboo Liquefaction for Synthesis of Polyurethane as Sustainable Materials Ruozhu Wang, Yoshito Ando 9:30 3S03 Depolymerization of Methacrylic Resins Promoted by Trityl Pendants Incorporated by Copolymerization or Postpolymerization Modification Yota Chiba, Shoji Hirabayashi, Yasuhiro Kohsaka 10:00 3S05 Marine PHBH-degrading bacterium and its PHBH degradation behavior Tomohiro Hiraishi, Senri Hayashi, Momoko Kitamura, Noriyuki Asakura, Hideki Abe Tomohiro Hiraishi, presiding 10:30 3S07 Synthesis and Degradability of Aliphatic Polycarbonates Containing Aromatic Moieties in the Side Chains Kazuki Fukushima, Yuki Tachiwana, Takashi Kato Disintegration field test of plastics under water environmental 11:00 3S09 conditions Atsuyoshi Nakayama, Naoko Yamano, Shodai Hino, Takashi Ohmoto, Hayato Yamanaka, Hiroshi Hirano, Akihiko Masui, Takahiro Nagahama, Takeshi Kanzawa, Yoji

		Kojima,Hiroto Munetsuna,Hisaya Myoga,Masaya Watanabe,Mami Tanaka,Hideo Okamura				
11:30	3S11	Development of enzyme-embedded biodegradable plastics and improvement of enzyme embedding for practical use <u>Qiuyuan Huang</u> ,Satoshi Kimura,Tadahisa Iwata				
	(Qiuyuan Huang, presiding				
13:00	3S13	Preparation of Chitin and Chitosan Monoliths for Flow-Based Applications Akihide Sugawara,Emil Hajili,Hiroshi Uyama				
		<u></u>				
E. POLYMERS AND ENVIRONMENT "English Session"						
		Qiuyuan Huang, presiding				
	•	gruyuan muang, presiding				
13:30	3S15	PBAT/Hectorite clay nanocomposite coated paper-based				

packaging materials Bapan Adak, Yoshikuni Teramoto 14:00 3S17 Polyrotaxane-Engineered Biopolyesters with Enhanced Toughness and Marine Degradability Cong Liu, Shota Ando, Yingjun An, Sinan Feng, Ailifeire Fulati, Atsushi Takahara, Kohzo Ito Daisuke Ishii, presiding 14:30 3S19 Mechanochemical Synthesis of Thermoplastic Cellulose Mixed Esters for Plastic Film. Lease Jacqueline, Yoshito Andou 15:00 3S21 Thermo- and pH-Responsive Hydrogels Based on Cellulose Succinate and Amines: Elucidating the Gelation Mechanism Chandran Bharath, Andou Yoshito 15:30 3S23 Simultaneous multimodal-multitask learning for structure/dynamics-degradability relationships of biopolymers powered by NMR data science. XINYU NI, YOSHIFUMI AMAMOTO, JUN KIKUCHI