Room A

Wed. Jun 5

INVITED LECTURES

	N	aoko Yoshie, presiding
10:15	1A06IL	Plastic recycling and carbon neutrality aimed at arterio-venous industries integration <u>Toshiaki Yoshioka</u>
	IM.	lasaya Yamamoto, presiding
11:00	1A09IL	Smart Polymer Technologies for Global Health <u>Mitsuhiro Ebara</u>
	T	omohiro Konno, presiding
12:30	1A12IL	Design of Cell Surfaces by Polymeric Nanomaterials for Medical and Pharmaceutical Applications <u>Michiya Matsusaki</u>
	н	iroshi Jinnai, presiding
13:15	1A15IL	Utilizing Quantum Beams for the Development of Next-Generation Tire Rubber Materials. <u>Hiroyuki Kishimoto</u>
		AWARD LECTURES
	т	oshifumi Satoh, presiding
14:00	1A18AL	Founding and Utilization of Living Anionic Polymerization of Isocyanates <u>Jae-Suk Lee</u>
	A	tsushi Takahara, presiding
14:45	1A21AL	Pioneering Contribution on Synthesis of Fluoropolymers for Advanced Applications Bruno Ameduri
	IM	lichiya Matsusaki, presiding
15:30	1A24AL	Development of Functional Environmentally Friendly Polymers for Advanced Materials <u>Suwabun Chirachanchai</u> ,Thanit Kertsomboon,Sarunya Phunpee,Phanicha Wiwatsamphan
	т	akashi Miyata, presiding
16:15	1A27AL	Nanostructured Layered Polymer Systems and Advanced Manufacturing <u>Rigoberto C. Advincula</u>

Thu. Jun 6

INVITED LECTURES

	K	ohzo Ito, presiding
9:30	2A03IL	Future society engendered by LIB <u>Akira Yoshino</u>
10:15	2A06IL	Design Strategy of Organic Semiconducting Materials for Various Organic Electronics <u>Yun-Hi Kim</u>
	Y	ukio Nagasaki, presiding
11:00	2A09IL	Effect of Chain Architecture on the Biodegradability and Mechanical Properties of Biodegradable Copolymers of L-Lactide Phornwalan Nanthananon,Nutcha Nongyai,Yong Ku Kwon
		AWARD LECTURES
	K	enichi Oyaizu, presiding
12:30	2A12AL	
	M	lichinori Suginome, presiding
13:15	2A15AL	Precise Synthesis and Characterization of Architecturally Complex Polymers <u>Toshifumi Satoh</u>
	A	tsushi Kajiwara, presiding
14:00	2A18AL	Synthesis of New Polymers by Olefin Metathesis Polymerization Using Transition Metal Complex Catalysts <u>Kotohiro Nomura</u>
		INVITED LECTURES
	т	akehiko Wada, presiding
14:45	2A21IL	The Role Envisioned for NanoTerasu in Polymer Science & Technology <u>Masaki Takata</u>
	M	lasaru Nakagawa, presiding
15:30	2A24IL	Development of highly ionic conductive materials based on molecular orientation and polymer organization Yuki Nagao
	A	tsushi Hozumi, presiding
16:15	2A27IL	Smart and Responsive Polymer Nanostructures <u>Jiun-Tai Chen</u> ,Yu-Liang Lin,Yi-Fan Chen,Lin-Ruei Lee,Yu-Hsuan Tseng,Kuan-Ting Lin,Sheng Zheng

Fri. Jun 7

Seiichi Kawahara, presiding				
10:15	3A06AL	Functionalization of Polymers Using Dynamic Bonds Naoko Yoshie		
	Jumpei Kawada, presiding			
11:00	3A09AL	Ultrastrong Carbon Fibers via Nanoscale Tailoring <u>Fumihiko Tanaka</u> ,Jun Watanabe,Tatsuya Nakatani		
	Ma	asaya Mitsuishi, presiding		
12:30	3A12AL	Unique Properties of Cyclic Polymers and Their Applications for Nanomaterials <u>Takuya Yamamoto</u>		
	Hi	romu Kashida, presiding		
13:15	3A15AL	Studies on Biosynthesis and Hierarchical Structures of Spider Silk		

INVITED LECTURES

Jun Matsui, presiding

Keiji Numata

14:00 3A18IL Towards high-mobility organic semiconductors via molecular science
Kazuo Takimiya

Room B

Wed. Jun 5

POLYMERS TODAY AND BEYOND

Yoshinao Taniguchi, presiding 10:15 1B06IL sp²-based carbon materials with sponge-like flexibility for energyrelated applications Hirotomo Nishihara Yuji Shibasaki, presiding 11:00 1B09IL What will all-solid-state batteries bring to the electric society? Hiroyuki Higuchi Kazuki Gyoda, presiding 12:30 1B12IL Tire and Polymer: Sustainable Future Misao Hiza Tsutomu Ishihara, presiding 13:15 1B15IL Nanotechnology for Future Medicine: Development of Polymeric Materials for Delivering, Manufacturing, and Manipulating Drugs in the Body Kazunori Kataoka

Tomoya Higashihara, presiding

14:00	1B18IL	Development of novel cardiovascular surgical patch - New options for surgical treatment for congenital heart diseases - Kentaro Fujinaga
	Н	idemitsu Furukawa, presiding
14:45	1B21IL	Horizontal expansion from MRI research to the "Radiation House" comic. <u>Kousaku Saotome</u>
	A	tsushi Kobayashi, presiding
15:30	1B24IL	Implementation of 3D Food Printers in Society <u>Toshiyuki Akachi</u>
	M	asaru Nakagawa, presiding
16:15	1B27IL	Creating Solutions Connecting Polymer Materials and Devices in the VUCA Age, and Expectations of R&D Personnel <u>Yoshihisa Shinya</u>

Thu. Jun 6

POLYMERS TODAY AND BEYOND

	To	oshio Tada, presiding		
9:30	2B03IL	Activities on materials design using digital technology <u>Hiroya Kodama</u>		
	Na	arukuni Hirata, presiding		
10:15	2B06IL	Digital transformation in materials development at Asahi Kasei <u>Takeshi Aoyagi</u>		
	Shuichiro Ogawa, presiding			
11:00	2B09IL	Digital Transformation for Materials and Processes: from Autonomous Experiments to Multimodal Deep Learning Shun Muroga		
	Fı	umihiko Shimizu, presiding		
12:30	2B12IL	Technology Development of Teijin Frontier for Social Contributions <u>Yukihiro Shigemura</u>		
	K	azuya Noda, presiding		
13:15	2B15IL	Resonac Holding Co., Ltd.'s advanced technology development and social contribution. <u>Masato Fukushima</u>		
	M	asao Tomikawa, presiding		
14:00	2B18IL	Advanced technology development and social contributions of ZEON Corporation <u>Masao Akasaka</u>		

Fri. Jun 7

POLYMERS TODAY AND BEYOND

Hiroshi Jinnai, pr	esiding
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9:45 3B04IL Application of Synchrotron Radiation X-ray Scatter	ering and
Spectroscopy to Soft Materials and Expectations for Atsushi Takahara	or NanoTerasu
10:15 3B06IL Chemical imaging of adhesive interfaces with soft 2 Hiroyuki Yamane	X-rays
Tomohiro Konno, presiding	
10:45 3B08IL Characterization of hydrated medical polymers and functional materials <u>Masaru Tanaka</u>	d design of
11:15 3B10IL Visualization and Materials Diagnosis by X-ray Spontage Mizuki Tada	ectroimaging
Keiji Tanaka, presiding	
12:30 3B12IL Introduction to the Green Cross Tech Research Ce SIP Circular Economy System Tomonaga Okabe	enter and the
13:00 3B14IL Innovative material design by using data-driven ap <u>Masashi Otsuki</u>	pproach
Masaru Nakagawa, presiding	
13:30 3B16IL Research and development of composite plastic massynchrotron radiation measurement Satoru Hosono	aterials using
14:00 3B18IL Expectations for "Nano Terasu" and utilization of s facility from perpective of local SME. <u>Yuko Akabane</u>	synchrotron
14:30 3B20IL Urbannet Sendai-Chuo Building's initiatives to cor promotion of industrial use of "NanoTerasu" <u>Yoko Okubo</u>	ntribute to the

Room C

Wed. Jun 5

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Koji Takagi, presiding

10:00	1C05	Synthesis of Aliphatic Polyesters using Citric Acid and its Salts as a Catalyst <u>Toshiki Miwa</u> ,Ryota Suzuki,Takuya Yamamoto,Feng Li,Takuya Isono,Toshifumi Satoh
10:15	1C06	Synthesis of Aliphatic Polyesters by Ring-opening Polymerization Using Amide/Iminium Zwitterion Catalyst Minori Matsuda, Ryota Suzuki, Feng Li, Takuya Yamamoto, Takuya Isono, Toshifumi Satoh
10:30	1C07	One-step Synthesis of Polyester-based Hot-melt Adhesives via Self-switchable Polymerization <u>Ryota Suzuki,</u> Masaru Ando,Katsuaki Takahashi,Feng Li,Takuya Isono,Toshifumi Satoh

Takuya Isono, presiding

10:45	1C08	Ring-Opening Copolymerizations of ethylene carbonate with other cyclic carbonates. <u>Yu Satake</u> ,Osamu Haba,Hisanari Yoneda,Tatsuro Toda
11:00	1C09	Ring-opening polymerization of a five-membered cyclic carbonate derived from myo-inositol. <u>Yuto Oshima</u> , Haba Osamu, Hisanari Yoneda, Tatsuro Toda
11:15	1C10	Synthesis of controlled polysiloxanes by ring-opening polymerization of cyclic siloxane using p-t-butylphenol as an initiator. <u>Kensei Chikashita</u> , Hiroto Kudo
11:30	1C11	Ring-opening polymerization of 1,3-dioxa-2-silacycloalkanes <u>Ikuto Tanaka</u> ,Sadahito Aoshima,Arihiro Kanazawa
]	Hiroto Kudo, presiding
12:45	1C13	Development of initiating systems for living cationic polymerization of oxiranes: Investigation for control of end groups and expansion of applicable oxiranes <u>Hibiki Yamada</u> ,Sadahito Aoshima,Arihiro Kanazawa
13:00	1C14	Sequence-Controlled Cationic Terpolymerization of Styrene Derivatives, Oxiranes, and Aromatic Aldehydes <u>Yuto Eguchi</u> ,Sadahito Aoshima,Arihiro Kanazawa
13:15	1C15	Cationic Copolymerization of Furfural-Derived 5-Alkoxy-2(5 <i>H</i>)-furanones: Reactivity Control in Copolymerization through Monomer Design Naoki Higashibata, Sadahito Aoshima, Arihiro Kanazawa
13:30	1C16	Aqueous Controlled/Living Cationic Polymerization of Caffeic Acid-derived Vinyl Catechol Risa Fujita,Shiho Tanizaki,Tomohiro Kubo,Kotaro Satoh
		Chihiro Homma, presiding
13:45	1C17	Controlled Cationic Polymerization of Styrene Derivatives Using Redox-active Organotellurium Catalysts <u>Shuhei Hayashi</u> ,Koji Takagi
14:00	1C18	Metal-free cationic polymerization of low reactive styrenes using diaryliodonium salts as organic Lewis acid catalysts: Acceleration by UV irradiation and suppression of side reactions Yutaka Yokawa , Sadahito Aoshima, Arihiro Kanazawa
14:15	1C19	Cationic Polymerization of Vinyl Ether with Salicylic Acid Derivatives as Initiators: Effects of Substituent on Tacticity <u>JeongHyeon Lee</u> ,Makoto Ouchi
14:30	1C20	Living Anionic Polymerization of Acrylamides even under Open-Air Condition Shin-ichi Matsuoka,Riki Akita
	1	Arihiro Kanazawa, presiding
14:45	1C21	Anionic polymerization of various vinyl monomers using benzyltrimethylsilanes and fluoride ions as initiator systems Mei Nakamoto, Daichi Fuyuki, Kaoru Adachi
15:00	1C22	Anionic polyaddition of 1,1-diphenylethylene derivatives using various lithium amides Honoka Matsumoto, <u>Kaoru Adachi</u>
15:15	1C23	Anionic polymerization of 6-(p-chlorophenyl)-benzofulvene and degradation behavior of resultant polymer <u>Jiaxuan Wu</u> ,Karen Kawazome,Ayana Fukui,Chihiro

Homma, Takashi Ishizone

Mineto Uchiyama, presiding

15:30	1C24	Anionic polymerization of a-methylenetetralins with substituents on aromatic ring Karen Kawazome, <u>Chihiro Homma</u> , Takashi Ishizone
15:45	1C25	Anionic polymerization of styrenes bearing electrophilic functional groups by initiators generated in flow Yuya Yonekura , Yosuke Ashikari, Tomoko Kawaguchi, Kyosuke Tomite, Takashi Tamaki, Mai Furusawa, Aiichiro Nagaki
16:00	1C26	Anionic polymerization of 2-phenyl-5-vinylfuran <u>Hayato Nakamura,</u> Yuki Kurishiba,Chihiro Homma,Takashi Ishizone
16:15	1C27	Synthesis of sequence-controlled homopolymer via anionic self- alternating polymerization of AB-type divinyl monomers with a halogen group <u>Tsuyoshi Matsuo</u> ,Hamin Kim,Chihiro Homma,Takashi Ishizone

Thu. Jun 6

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Shin-Ichi Matsuoka, presiding 9:30 2C03 Synthesis of ABC/ACB-Type Triblock Copolymers Based on Polystyrene and Polymethacrylate via Living Anionic Polymerization and Higher-Order Structural Analysis Ryota Uehara, Shinsuke Maekawa, Takehiro Seshimo, Takahiro Dazai, Kazufumi Sato, Kan Hatakeyama, Yuta Nabae, Teruaki Havakawa 9:45 2C04 Living Anionic Polymerization with C-H Bonds as Dormant Species: Control of Molecular Weight and Tacticity for Various Monomers Katsutoshi Sagawa, Hironobu Watanabe, Mineto Uchiyama, Masami Kamigaito 10:00 2C05 Living Anionic Polymerization of Aromatic Vinyl Monomers Based on Reversible Activation of C-H Bonds as Dormant Species Koki SAKAI, Hironobu WATANABE, Mineto UCHIYAMA, Masami KAMIGAITO Kaoru Adachi, presiding 2C06 10:15 Anionic alternating copolymerization of styrene derivative having a bulky substituent at *meta*-position and 1,1-diphenylethylene Rinya Kawashima, Kotaro Koike, Hamin Kim, Chihiro Homma, Takashi Ishizone 10:30 2C07 Living anionic addition reaction of 1,1-diphenylethylene derivative possessing acyl group Ikushi Suzuki, Tomohiko Nishijima, Chihiro Honma, Takashi Ishizone 10:45 2C08 Synthesis of sequence-controlled polymers by living anionic addition reaction and acyclic diene metathesis polymerization Tomohiko Nishijima, Chihiro Homma, Takashi Ishizone Shin-Ichi Yusa, presiding 11:00 2C09 Group-Transfer Radical Polymerization Using Photoredox

		Catalysts for Various Monomers Shinnosuke NAKAYAMA , Hironobu WATANABE, Mineto UCHIYAMA, Masami KAMIGAITO
11:15	2C10	Neighboring Group Effects in Polymer Reactions of Vinylboron Copolymers <u>Takuma Kawada</u> ,Tsuyoshi Nishikawa,Makoto Ouchi
11:30	2C11	Radical Polymerization of Vinylboronic Acid Derivatives: Stereocontrol by Monomer Design and Lewis Acid Additives and Post-polymerization Transformation into Tacticity-controlled PVA <u>Hiroshi Suzuki</u> ,Tsuyoshi Nishikawa,Makoto Ouchi
	•	rsuyoshi Nishikawa, presiding
12:45	2C13	Synthesis of Poly(N-vinylpyrrolidone) Analogues Having Sulfur Atoms in the Backbones by Direct Radical Polymerizations of C=S Double Bond <u>Tatsuya HATTORI</u> ,Hironobu WATANABE,Mineto UCHIYAMA,Masami KAMIGAITO
13:00	2C14	Synthesis of Polymers Containing Nitrogen Atoms in the Main Chains by Radical Polymerization of Oxime Ethers through their C=N Double Bonds <u>Yunosuke NAKACHI</u> , Hironobu WATANABE, Mineto UCHIYAMA, Masami KAMIGAITO
13:15	2C15	Practical synthesis of linear and hyperbranched polymers by microemulsion TERP with hydrophobic organotellurium chain transfer agents <u>Nanami Miyoshi</u> , Masatoshi Tosaka, Shigeru Yamago
13:30	2C16	Synthesis of Dendritic Hyperbranched Polyacrylate by Controlled Radical Polymerization and Their Zero-Shear Viscosity <u>TIANXIANG TONG</u> , Masato Kibune, Masatoshi Tosaka, Yumi Matumiya, Hiroshi Watanabe, Shigeru Yamago
	•	Jin Motoyanagi, presiding
13:45	2C17	CoPolDB: Database of monomer reactivity ratios in radical copolymerization <u>Masatoshi Tosaka, Keiichiro Takahashi, Hiroshi</u> Mamitsuka, Shigeru Yamago
14:00	2C18	A Library Synthesis of Isotactic Polyacrylamides via Radical Polymerization of a Bulky and Transformable Monomer and Post-Polymerization Modification YUEHANG PAN , Makoto Ouchi
14:15	2C19	Development of ultra-high molecular weight polymethacrylamide using deep eutectics. Ryosuke YOSHIMURA, Reina SHINOHE, Hideharu MORI
14:30	2C20	Development of ion-conductive polyelectrolytes by photo-radical polymerization of deep eutectic monomers based on N-vinylcaprolactam Yuya SASAKI, Reina SHINOHE, Hideharu MORI
14:45	2C21	RAFT Copolymerization of VAc and Vinyl Ethers for the Synthesis of Well-defined PVA <u>Taigo Morioka</u> ,Risa Fujita,Riko Kashima,Tomohiro Kubo,Kotaro Satoh
	1	Daisuke Nagai, presiding
15:00	2C22	Synthesis and polymerization of exo-methylene five-membered cyclic monomers containing N atom with different substituents Sota Takashima , Ryoya Kamiki, Sota Yamamoto, Tomohiro

		Kubo,Kotaro Satoh
15:15	2C23	Synthesis of Degradable Vinyl Polymers by Addition- Fragmentation Radical Ring-Opening Copolymerization of Thionolactide Derivatives Ryoya Kamiki, Tomohiro Kubo, Kotaro Satoh
15:30	2C24	Radical Ring-Opening Copolymerization of Bicyclic Thiocarbonyl Monomers Derived from Bio-based beta-Pinene <u>Tomohiro Ikeyama</u> ,Ryoya Kamiki,Shiho Tanizaki,Tomohiro Kubo
15:45	2C25	Synthesis of Photo-Degradable Polymers via Sequence-Specific Radical Copolymerization of Activated Ester Containing Acrylate and Postpolymerization Modification Keita Kuroda , Makoto Ouchi
16:00	2C26	Backbone Degradation of Vinyl Polymers Triggered by Activation of Pendant C-H Bond: Effects of Sequence and Pendant Structures on Degradation Behaviors <u>Masaya Kinugawa</u> , Jeong Hyeon Lee, Makoto Ouchi
	T	omohiro Kubo, presiding
16:15	2C27	Radical copolymerization of N-cyclohexyl maleimide and vinyl ethers with various substituents: effects of substituents on thermal stability, optical property and biocompatibility of the copolymers <u>Tamotsu Hashimoto</u> ,Kanta Sato,Michio Urushisaki,Toshikazu Sakaguchi,Nakaji Tadashi
16:30	2C28	Synthesis of alternating copolymers based on a vinyl ether having a pendant quaternary ammonium salt and their antimicrobial properties <u>Baku Koito</u> , Jin Motoyanagi, Yuji Aso, Masahiko Minoda
16:45	2C29	Development of photoredox polymer catalysts based on pyrene core and their application to the reductive coupling reaction Risa Suzuki, Daisuke Nagai, Shusuke Okamoto

Fri. Jun 7

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Junpei Kuwabara, presiding 9:30 3C03 Copolymerization of Ethylene with Methylenecyclopropanes with Bicyclic Structure by Cobalt Catalyst Yuki Hori, Yuta Kimura, Daisuke Takeuchi Synthesis of boronic acid-functionalized isotactic polypropylene 9:45 3C04 and its application for polyolefin modifier Kazuki Shimizu, Ryo Tanaka, Yuushou Nakayama, Takeshi Shiono, Shinichi Kihara 10:00 Influence of the chemical structure of boronic acid functionalities 3C05 on the crosslinking rate of EPM Yusuke Bando, Ryo Tanaka, Yusho Nakayama, Takeshi Shiono 10:15 3C06 Precise synthesis of ethylene/styrene/butadiene terpolymers by lanthanide-based catalyst systems Shojiro Kaita, Shigenaga Takano, Jun-ichi Ishigami Ryo Tanaka, presiding 10:30 3C07 Helix-sense-selective polymerization of phenylacetylenes using

		rhodium complexes having helical chirality <u>Akari Oka</u> ,Kensuke Echizen,Tsuyoshi Taniguchi,Tatsuya Nishimura,Katsuhiro Maeda
10:45	3C08	Synthesis and applications of poly(p-phenylene) derivatives via direct arylation polymerization using 3-methylpyridin-2-yl directing group. <u>Genta Horiguchi</u> ,Ryoyu Hifumi,Ikuyoshi Tomita
11:00	3C09	Synthesis of Poly(arylene vinylene)s via Manganese-catalyzed Hydroarylation Polyaddition <u>Kakeru Tsukahara</u> ,Ryota Iwamori,Junpei Kuwabara,Takaki Kanbara
11:15	3C10	Synthesis of Thiophene-Based Poly(arylenevinylene)s via Thioether Ligated Pd Catalyzed Direct Alkenylation <u>Daichi Terauchi</u> ,Ryota Iwamori,Junpei Kuwabara,Takaki Kanbara
	S	huji Okada, presiding
11:30	3C11	Self-assembly of Edge Functionalized Nanographenes <u>Ryo Sekiya</u> ,Haruka Moriguchi,Takeharu Haino
12:45	3C13	Creating Flexible Crystals and Exploring the Mechanical Properties of Anthracene Derivatives that Freely Incorporate Guest Molecules <u>Yuto Hino</u> , Takumi Matsuo, Shotaro Hayashi
13:00	3C14	Synthesis of <i>o</i> -Carborane Containing Macrocycle and Change in Optical Properties by Guest Recognition <u>Mei Tokutomi</u> , Kazuhiro Yuhara, Kazuo Tanaka
	R	yo Sekiya, presiding
13:15	3C15ILY	Development of functional materials based on ion-pair recognition $\underline{\text{Ryohei Yamakado}}$
13:45	3C17	Quick Synthesis of Ru(II)-Based Metallosupramolecular Polymer with Enhanced Electrochromic Properties Using Microwave Assistance Banchhanidhi Prusti, Utpal Rana, Ritsuko Nagahata, Masayoshi
14:00	3C18	Higuchi Development of fibrous and sheeted nanostructures formed from hybrid of glycyrrhetinic acid glycosides with Fe(III) spin crossover complexes Kota Araki, Keita Kuroiwa
	K	eita Kuroiwa, presiding
14:15	3C19	Multistimuli-responsive fluorenone-based supramolecular organogels <u>Atsushi Seki</u> ,Mao Suzuki,Syota Yamada,Ken'ichi Aoki
14:30	3C20	Control of Drug Release from Protein Gels Based on the Valency of Salts Michiya Arafuka, Akihiro Yabuki, JIHA LEE
14:45	3C21	Development of Drug-encapsulated Protein Films and their drug release behavior <u>Hiroya Tsubota</u> , Akihiro Yabuki, JI HA LEE

Room D

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Toshifumi Satoh, presiding

10:00	1D05	Synthesis of Sequence-Defined Polymers via Iterative Additions Haruka Yamauchi,Syunya Inayama, <u>Shotaro Hayashi</u>
10:15	1D06	Synthesis and properties of core-gel type star polysulfide by acyl group transfer polymerization of thiirane with cyclic and linear thiocarbamate Ryouta Tsutsui, Hiroto Kudo, Akiyuki Ryoki
10:30	1D07	Precise Synthesis of Alternating Graft Copolymers and Evaluation of Physical Properties Specific to Controlled Sequence <u>Aoto Ishikawa</u> , Makoto Ouchi
10:45	1D08	Precise synthesis of novel poly(lactic acid)-grafted alternating copolymers and their molecular assembly formation Naoya Kinoshita ,Jin Motoyanagi,Masahiko Minoda
]	Kazuya Matsumoto, presiding
11:00	1D09	Synthesis of multicyclic polystyrene and polystyrene-containing multicyclic copolymers via cyclopolymerization Yamato Ebii, Feng Li, Takuya Yamamoto, Kenji Tajima, Takuya Isono, Toshifumi Satoh
11:15	1D10	Synthesis of multicyclic poly(butyl acrylate) for application in damping materials <u>Kotaro Ibe</u> , Yamato Ebii, Kazushige Suzuki, Feng Li, Takuya Yamamoto, Takuya Isono, Toshihumi Satoh
11:30	1D11	Preparation of topological gels using penetrating polymerization and evaluation of their physical properties <u>Hiroaki Ogawa</u> ,Fumika Seko,Yuto Nakazawa,Kousei Sinnzaki,Kennitirou Mizuguti,Nobuo Murase,Yuichi Ohya
]	Kaoru Adachi, presiding
12:45	1D13	Structural design of multiarm star poly(N-isopropylacrylamide) for control of unique aggregation behavior and construction of functional nanospaces Shuya Hayashi, Shohei Ida, Shokyoku Kanaoka
13:00	1D14	Heat-triggered gel formation by physical interaction between multiarm star polymers and different types of linear polymers <u>Asaka Nishigaki</u> ,Sho Sugimoto,Shohei Ida,Shokyoku Kanaoka
13:15	1D15	Synthesis and Properties of Multiarm Star Polymer-Crosslinked Hydrogels with Locally Dense Dangling Chains Souma Suzuki, <u>Shohei Ida</u> , Hiroki Takeshita, Masatoshi Oyama, Keiji Nakajima, Shokyoku Kanaoka
13:30	1D16	The synthesis and properties of tellurium-containing hyperbranched polymers by polyaddition reaction of tellurium tetrachloride with epoxide and oxetane. Ryosuke Taguchi, Hiroto Kudo
	\$	Shokyoku Kanaoka, presiding
13:45	1D17	Synthesis of multibranched polymers having hydrosilyl groups at each side chain ends and their application to surface immobilization <u>Chiho Utaki</u> , Takeru Iwamura, Kaoru Adachi
14:00	1D18	Synthesis of main-chain degradable hyperbranched

		poly(hemiacetal esters) and their application to EUV-resist materials <u>Kouta Iwane</u> ,Hiroto Kudo
14:15	1D19	Preparation of ethylene-crosslinked ladder-like polysiloxanes and effect of silylating agents on protection of residual silanol groups Sho Nonaka , Kazuhiro Shikinaka, Tomoyasu Hirai, Yoshiro Kaneko
14:30	1D20	Synthesis and evaluation of silica particles grafted with electrolyte units (III) -Study of higher molecular weight- Yusuke Watabe, Masahiro Fujita, Yuko Takeoka, Masahiro Rikukawa
	1	Tomoyasu Hirai, presiding
14:45	1D21	Effect of curvature of initiator-modified silica surface on surface radical polymerization minghao Lu, Reiko Saito
15:00	1D22	Fabrication of Polymer Nanomaterials Using Clays <u>Takahiro TAMARU,</u> Takahiro KAKUTA,Tada-aki YAMAGISHI
15:15	1D23	Correlation between acrylic side chain structure and bond exchange capacity in dynamic disulfide-crosslinked acrylic elastomers Shinji Suzuki , Mikihiro Hayashi
15:30	1D24	Synthesis of Cyclic Chiral Isotactic Poly(propylene glycol)s and Their Topological and Optical Separation by Using Chiral Chromatography Yuki Tanaka,Yuna Kinoshita,Tomoko Ono,Takuya Yamamoto
15:45	1D25	Development of adhesive polymer films based on the synergy effect of the surface structure having vertically oriented polymer pillars and electrostatic interactions <u>Kaito Kishimoto</u> ,Jin Motoyanagi,Masahiko Minoda
	7	łuko Takeoka, presiding
16:00	1D26	Radical Polymerization and Fine Particle Formation of Vinylphosphonic Acid Ester <u>Nonoka Yamamura</u> ,Atsushi Matsumoto,Yasushi Maeda,Shinji Sugihara
16:15	1D27	Two-Dimensional Assembly of Polythiophenes Directed by a Triptycene Supramolecular Scaffold <u>Masato Fukumitsu</u> ,Tomoya Fukui,Yoshiaki Shoji,Takanori Fukushima

Thu. Jun 6

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

		on Dinuclear Hypervalent Tin Compounds <u>Kento Tanaka</u> ,Kazuya Tanimura,Masayuki Gon,Kazuo Tanaka
10:15	2D06	Synthesis of poly(2-vinylpyridine)-b-polydimethylsiloxane and its application to nanostructured template materials <u>Haruka Samizo</u> ,Riku Takahashi,Kan Hatakeyama,Yuta Nabae,Teruaki Hayakawa
10:30	2D07	Fabrication and Evaluation of Fluorinated Polymer Hybrid Materials with Highly Fluorinated POSS Fillers <u>Tatsuaki Kunimitsu</u> ,Keisuke Shibahara,Masayuki Gon,Kazuo Tanaka
	F	Kensuke Naka, presiding
10:45	2D08	Construction of luminescent nanoobjects by polymerization induced self-assembly using deep eutectic solvents. <u>Kento SATO</u> , Hirotsugu MIYAKAWA, Reina SHINOHE, Shingo YUKI, Hideharu MORI
11:00	2D09	Creation of novel luminescence materials using aggregation- induced emission (AIE) and clusterization-triggered emission (CTE)
		Satoru OZEKI,Kanako YAMAMOTO,Hideharu MORI
11:15	2D10	Discovery of Luminescent Functionality of the Anionic Carborane by Countercations <u>Takumi Yanagihara</u> , Kazuo Tanaka
11:30	2D11	Synthesis and Optical Properties of <i>o</i> -Carborane-Pyrene-based Solid-State Fluorescent Probes Shunsuke Nishiyama, Kazuo Tanaka
	F	Kazuhiro Yamabuki, presiding
12:45	2D13	Photophysical Properties of 9-Hydroxyphenalenone Boron Complexes and Effects of Monodentate Ligands <u>Yuga TARUMI</u> ,Yuto AOYAMA,Shunichiro ITO,Kazuo TANAKA
13:00	2D14	Controlling the Electron Acceptability of Boron Tropolonate Complexes by Regioselective Functionalization <u>Hikari Ogoshi</u> ,Shunichiro Ito,Kazuo Tanaka
13:15	2D15	Homopolymerization of Boron Dialdiminate Complexes and Their Stimuli-Responsive Luminescence <u>Shunichiro Ito</u> ,Yuki Sakai,Kazuo Tanaka
13:30	2D16	Stimuli-Responsive Luminescence Through Controlling the Interchain Interactions of π-Conjugated Polymers Based on Pyridylenolate Boron Complexes <u>Yuto AOYAMA</u> ,Shunichiro ITO,Kazuo TANAKA
	7	Takuya Yamamoto, presiding
13:45	2D17	Nanoparticle-based elastomers with high tear-resistance <u>Yuma Sasaki,</u> Yuichiro Nishizawa,Takuma Kureha,Kazuya Uenishi,Kazuko Nakazono,Toshikazu Takata,Daisuke Suzuki
14:00	2D18	Single-Molecule Imaging of Polypseudorotaxane by FS-AFM Ryoga Hori,Ken-ichi Shinohara
14:15	2D19	Synthesis of [c2]Daisy-chain Rotaxane Network Constructed with Reversible Cross-linking Points Consisting of Two-ammonium-armed DB24C8 <u>Moe KODA</u> ,Kenjiro ONIMURA,Kazuhiro YAMABUKI
14:30	2D20	Optically active polyaryleneethynylenes bearing bipyridine moieties: Synthesis, higher-order structures and chirality/metal ion recognition

Fumio Sanda, Mio Hosotani, Taichi Sotani, Hiromitsu Sogawa

Kan Hatakeyama, presiding

	120	an matakeyama, presiding
14:45	2D21	Synthesis of inorganic-sugar hybrid materials toward constructing ultrafine nanostructures <u>Yu Oishi</u> ,Taiki Nishimura,Takuya Yamamoto,Toshifumi Satoh,Takuya Isono
15:00	2D22	Systematic synthesis of inorganic-sugar hybrid materials toward constructing quasicrystal and Frank-Kasper phase <u>Taiki Nishimura</u> ,Feng Li,Takuya Yamamoto,Kenji Tajima,Hsin-Lung Chen,Toshifumi Satoh,Takuya Isono
15:15	2D23	Development of sugar-based block copolymers for toughening poly(\varepsilon-caprolactone) <u>Yurika Fujiwara, Yuki Tsuji, Minami Ebe, Takaya</u> Kobayashi, Kazushige Suzuki, Weeranuch Lang, Feng Li, Takuya Yamamoto, Kenji Tajima, Toshifumi Satoh, Takuya Isono
15:30	2D24	Synthesis of Amorphous Conjugated Polymer Networks with Graphitic Structures and Their Application to Reinforced Materials with Composites into Resins <u>Tomoki Sakuma</u> , Hiroaki Imai, Yuya Oaki
	K	azuo Tanaka, presiding
15:45	2D25	Synthesis and properties of aromatic poly(ether ketone) block copolymers containing methoxy groups Masaru yoneyama, Mayu Arai, Takeshi Yamanobe
16:00	2D26	Synthesis, Higher-Order Structure, and Dielectric Property of Poly(phenylene ether)-Based Block Copolymers <u>Riku Takahashi,</u> Kan Hatakeyama,Yuta Nabae,Teruaki Hayakawa
16:15	2D27	Block Copolymerization of Less and More Activated Monomer with Difunctional RAFT Agent <u>Genki Sano</u> ,Mikito Muratomi,Atsushi Matsumoto,Yasushi Maeda,Shinji Sugihara
16:30	2D28	Synthesis and evaluation of polyphenylene-based copolymers with superacid groups(III)-Effect of hydrophilic structure- Rio Takahashi, Masahiro Fujita, Yuko Takeoka, Masahiro Rikukawa
16:45	2D29	Systematic synthesis of polyfluorene-based block copolymers for application in carbon nanotube solubilization <u>Rin Iwasaki</u> ,Mayoh Ashiya,Mei-Nung Chen,Yu-Cheng Chiu,Feng Li,Takuya Yamamoto,Kenji Tajima,Toshifumi Satoh,Takuya Isono

Fri. Jun 7

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Takaya Terashima, presiding

9:30	3D03	Constructing Laterally Alternating Arrays of Polymer Chains in Bichannel MOF Templates <u>Keat Beamsley</u> ,Nobuhiko Hosono,Takashi Uemura
9:45	3D04	Fabrication of Double-Stranded Polymers with Reactive Side-Chains Using Metal-Organic Frameworks <u>Yuki Kametani</u> ,Masahiro Abe,Takashi Uemura
10:00	3D05	Synthesis of polymer bundles using one-dimensional coordination

mesopores as template <u>Yosuke Nukui</u>,Yuki Kametani,Takashi Uemura

Yuki Kametani, presiding

10:15	3D06	PS-PMMA Block Copolymers Carrying Urea Junction: Cooperative Self Assembly Enabling Phase Separation of Low Molecular Weight Polymer Suguru Sonobe, Teruaki Hayakawa, Makoto Ouchi
10:30	3D07	Microphase Separation of Cationic Alternating Copolymers: Strategies to Control Nanostructures <u>Takaya Terashima</u> ,Ryoto Sujita
10:45	3D08	Water-Assisted Microphase Separation of Acrylic Acid Salt-Based Random Copolymers <u>Yuki Horiike</u> ,Makoto Ouchi,Takaya Terashima
11:00	3D09	Microphase separation of acrylonitrile/hydrogen bonding alkylacrylamide statistical copolymers Kenshiro Iguchi, Makoto Ouchi, Takaya Terashima
11:15	3D10	Development of Near-Infrared Light-Emitting π-Conjugated Polymers Based on Hypervalent Silicon Azobenzene Compounds <u>Ippei Kanetani</u> ,Masayuki Gon,Kazuo Tanaka
11:30	3D11	Construction of Near-infrared Light-Emitting π-Conjugated Polymers Based on Geometry of Hypervalent Antimony <u>Kazuya Tanimura</u> , Masayuki Gon, Kazuo Tanaka
		Tomoyuki Ikai, presiding
12:45	3D13	Hierarchical Micro-/Macro Phase Separation in UV curing Based on Photo-induced Controlled Radical Polymerization <u>Takeo Suga</u> , Honoka Fumoto, Shuhei Abe, Kenichi Oyaizu
13:00	3D14	Dynamic Chain Exchange and Self-Sorting of Amphiphilic Alternating Copolymer Micelles <u>Hiroyuki Kouno</u> ,Makoto Ouchi,Takaya Terashima
13:15	3D15	Self-Sorting Micelles Based on Ionic Random Copolymers and PEG random Copolymers <u>Rikuto Kanno</u> ,Makoto Ouchi,Takaya Terashima
13:30	3D16	Micellar Structure of Amphiphilic Random Copolymers Bearing Alkyl and Polyoxyethylene Chains in Water <u>Takahiro Sato</u> ,Takaya Terashima
	•	Takeo Suga, presiding
13:45	3D17	Controlling of preferred-handed helical conformation in linear polysiloxane main chain and evaluation of its functional properties <u>Tomoki Mure</u> , Yoshinobu Nakamura, Syuuji Fujii, Tomoyasu Hirai
14:00	3D18	Secondary Structure Modulation of Optically-Active Triptycene-Based Helical Ladder Polymers through pi-Extension of Achiral Units Atsuya Tanaka, Tomoyuki Ikai, Takumi Shiotani, Kosuke Oki, Eiji Yashima
14:15	3D19	Synthesis of Tethered Binaphthyl-Embedded One-Handed Helical Ladder Polymers and Their Chiroptical Properties <u>Tomoyuki Ikai</u> ,Namiki Mishima,Takehiro Matsumoto,Sayaka Miyoshi,Kosuke Oki,Eiji Yashima
14:30	3D20	Synthesis of helical poly(diphenylacetylene)s bearing various optically active amide groups and their application to colorimetric chiral sensors

Room E

Wed. Jun 5

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

	1	Mineto Uchiyama, presiding
10:00	1E05	Re-examination of the reactivity of amino acid N-carboxy anhydrides 101. Correction of representative studies <u>Hitoshi Kanazawa</u> , Aya Inada
10:15	1E06	Re-examination of the reactivity of amino acid N-carboxyanhydrides 102. Problems with the two reports published in Nature Hitoshi Kanazawa , Aya Inada
10:30	1E07	Study of Homocoupling Defects in Thiophene-containing π-Conjugated Polymers <u>Masayuki Wakioka</u> ,Takeru Hirukawa,Hinatsu Ito,Hitoshi Hanamura,Akira Shinohara
]	Katsuya Maeyama, presiding
10:45	1E08	Synthesis of sulfur-containing polyketones by step-growth polymerization and their degradability Shun Hashimoto, Yuichiro Kobayashi, Hiroyasu Yamaguchi
11:00	1E09	Design and Synthesis of Deprotection-Induced Degradable Polymers: Introduction of Various Protecting Groups and Evaluation of Degradation Behaviors <u>Yoji TANAKA</u> ,Hironobu WATANABE,Mineto UCHIYAMA,Ravi Teja Ananthu,Tomohiro KUBO,Koutarou SATOH,Masami KAMIGAITO
11:15	1E10	Polyesters synthesized by dimerizing lignin derivatives and condensing them with diols, and evaluation of their thermal property and degradability <u>Miyuki Oshimura</u> ,Kazuma Abe,Ryo Kawatani,Tomohiro Hirano,Koichi Ute
]	Masaru Yoneyama, presiding
13:00	1E14	Colorless Polyimides Derived from Novel Spiro-type Monomers (10). Strategies to Overcome the Trade-off between Low CTE and Low Birefringence <u>Masatoshi Hasegawa</u> , Toyo Ikuma, Yoshihiko Terada, Junichi Ishii
13:15	1E15	Modified Polyimides for use in Flexible Printed Circuit Boards for High-speed Data Communication (5) Masatoshi Hasegawa, Taro Fukuda, Yuto Ichiba, Junichi Ishii
13:30	1E16	Synthesis and Dielectric Properties of Double-Decker Silsesquioxane-Containing Polyimides <u>Natsuko Sashi,</u> Erina Yoshida,Hayato Maeda,Kan Hatakeyama,Yuta Nabae,Ririka Sawada,Shinji Ando,Teruaki Hayakawa
13:45	1E17	Synthesis and properties of heat-resistant poly (phenylene ether)s

14:00	1E18	with bulky substituents <u>Kentaro Sone</u> , Hayato Maeda, Kan Hatakeyama, Yuta Nabae, Teruaki Hayakawa Synthesis and Characterization of Water/Oil repellent, Heatresistant, Organosoluble Aromatic Poly(ether ketone)s Bearing Multi-perfluoroalkyl Groups at the Both Ends <u>haruki konta</u> , katsuya maeyama
	Y	Yuta Nabae, presiding
14:15	1E19	Development of novel polycondensation reaction toward N-tetra- substituted polyurea and its thermo-responsiveness in water <u>Keitaro Matsuoka</u> ,Mio Sasaki,Akari Sugano,Kazuki Sada
14:30	1E20	Synthesis of Bio-based Poly(ether ester)s by Ammonium Salt Catalysts and Aluminum Catalysts <u>Daisuke Takeuchi</u> ,Watanabe Toshiki,Tomonori Sonoki
14:45	1E21	Preparation of divanillin-based nitrile N-oxides and metal-free cycloaddition polymerization with various diynes <u>Hiromitsu Sogawa</u> , Yuki Kakita, Fumio Sanda
15:00	1E22	Precisely controlled polymerization of (-)-Levoglucosenone by sequential 1,4-addition / condensation with dihydrazides Shogo Yashiro , Atsushi Tahara, Toshio Hokajo, Shinji Kudo, Takayuki Doi
	I	Daisuke Takeuchi, presiding
15:15	1E23	Synthesis and fluorescence properties of polycarbonates with a pi-extended fluorene in the main chain <u>Gen-ichi Konishi</u> ,Tomoharu Matsushita,Tanaka Takuya
15:30	1E24	Improvement of mechanical properties of porous cyclohexyl epoxy resin Shuma Shinoda, <u>Reiko Saito</u>
15:45	1E25	Development of Malonic Ester Synthesis-type Polymerization Toward Sequence-Controlled Carbon Chain Polymers <u>Taichi Meno</u> ,Shunsuke Tsuchiya,Keitaro Matsuoka,Kazuki Sada
16:00	1E26	Synthesis of polyimines by oxidative polymerization and their structural analysis using model compounds <u>Hayate Tajima</u> , Takeshi Yamanobe, Masaru Yoneyama
16:15	1E27	Synthesis of Oligomeric Porphyrin Arrays via Hiyama-type Sonogashira Cross-Coupling Reaction Driven by Siloxane Formation <u>Wataru Nakamura</u> ,Mitsuhiko Morisue

Thu. Jun 6

9:45

10:00

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Hiromitsu Sogawa, presiding 2E04 Synthesis of polybenzothiazoles by oxidative cyclopolymerization of bifurfural, aromatic diamines, and element sulfur Ryota Abe, Takeshi Yamanobe, Yuya Tachibana, Masaru Yoneyama 2E05 Synthesis of polybenzothiazoles by oxidative cyclopolymerization of aromatic diamines, diacrylates, and sulfur

Masaru Yoneyama, Nao Yanagi, Takeshi Yamanobe

10:15	2E06	Synthesis of bio-based polymer derived from curcumin <u>Kenta Onishi</u> ,Hirito Kudo
10:30	2E07	Passerini Polymerization of Naturally Occurring Lipoic Acid for Dynamically Crosslinking 1,2-Dithiolane-functionalized Polymers Yasuyuki Nakamura, Yi-Shen Huang, Chih-Feng Huang
	Te	etsuya Kambe, presiding
10:45	2E08ILY	Challenge to Atomic Resolution Observation of Polymeric Materials <u>Tomohiro Miyata</u>
	Te	omohiro Miyata, presiding
11:15	2E10	Creation of Functional Composite Materials Using Powderized Gallium-Indium Liquid Metal <u>Christopher Hiromi SHIMAMURA</u> ,Shunichiro ITO,Kazuo TANAKA
11:30	2E11	Synthesis and properties of two-dimensional boron-based atomic layers <u>Tetsuya Kambe</u>
	H	ideyuki Otsuka, presiding
12:45	2E13	Synthesis of Polymers Featuring Strong Acidity based on the reactivity of 1,1-bis(triflyl)ethylene. <u>Takuma Oguchi</u> ,Hikaru Yanai,Ryohei Kakuchi
13:00	2E14	Post-polymerization modification of a,a-difluoroacetic acid ester group-containing polymers Koki Kasai,Hideki Amii,Ryohei Kakuchi
13:15	2E15	Post-polymerization modification by direct arylation of a polymer having 1,2,3-triazole side chains Yuki Kitagawa ,Shotaro Hayashi
13:30	2E16	Synthesis and Applications of Intramolecular Charge Transfer π-Conjugated Polymers Containing Electron-acceptor Thiophene Dioxide Units Shin Ogino,Ryoyu Hifumi,Ikuyoshi Tomita
13:45	2E17	Polymer Chemistry of Main-Chain Stiff-Stilbene Photoswitches in Solutions, in Bulk, and at Surfaces <u>Naoki Kaneda</u> ,Keiichi Imato,Ayane Sasaki,Ichiro Imae,Yousuke Ooyama
	SI	hotaro Hayashi, presiding
14:00	2E18	Synthesis of Fiber Materials by Combination of Radiation-induced Graft Polymerization and Kabachnik-Fields Reaction. <u>Minoru Kuroiwa</u> ,Kiho Matsubara,Masaaki Omichi,Hiroyuki Hoshina,Noriaki Seko,Ryohei Kakuchi
14:15	2E19	Graft-copolymerization of styrenesulfonic acid onto the surface of natural rubber particles <u>Yoshimasa Yamamoto</u> ,Seiichi Kawahara
14:30	2E20	Preparation of Enzyme Molecular-Dispersed Polymers via Nanofibrillation for Accelerated Degradation <u>Mikako Tachioka</u> ,Mikiko Tsudome,Maki Tokuda,Shigeru Deguchi
14:45	2E21	Mechanochromic polymer particles: The relationship between particle structure and mechanoresponsiveness <u>Daisuke Kuromiya</u> , Takumi Yamamoto, Akira Takahashi, Hideyuki Otsuka
	R	yohei Kakuchi, presiding
15:00	2E22	Selective cage opening and closing of boratrane moieties in

		polymers and concomitant glass transition temperature changes <u>Akira Takahashi</u> ,Hideyuki Otsuka
15:15	2E23	Lewis Adduct-formation/dissociation and LCST Properties of Triethanolamine-pendant Amphiphilic Polymers Shio Uebo, Akira Takahashi, Hideyuki Otsuka
15:30	2E24	Design of Anthracene-Naphthoquinone Adducts for Reversible Crosslinking/Material Recycling of Polymers at High Temperatures
	070	Ryunosuke Tanaami, Kenichi Oyaizu, Takeo Suga
15:45	2E25	Material Recycling of Cross-linked Polyethylene Based on Diels- Alder Chemistry
		<u>Yohei Yasuda</u> ,Naoya Yamauchi,Sachie Nagano,Ryunosuke Tanaami,Kenichi Oyaizu,Takeo Suga
	Т	akeo Suga, presiding
16:00	2E26	Synthesis and mechanochemical reactions of polymers with diarylacetonitrile-a-carboxylic esters <u>Yuto Uchida</u> , Hajime Sugita, Akira Takahashi, Hideyuki Otsuka
16:15	2E27	Synthesis and Mechanochromism of Crystalline Polymers with Mechanochromophore at Center of Main Chains <u>Ko Onuma</u> ,Akira Takahashi,Hideyuki Otsuka
16:30	2E28	Development and evaluation of non-symmetric radical type mechanophores that show heat-resistance and mechanofluorescence <u>Kaito Hosono</u> , Tatsuki Sato, Takumi Yamamoto, Akira Takahashi, Hideyuki Otsuka
16:45	2E29	Analysis of radical oxidations of 1,1-diarylethylene derivatives using polymeric mechanoradicals Akira Kodaka , Yuto Uchida, Takumi Yamamoto, Hajime Sugita, Akira Takahashi, Hideyuki Otsuka

Fri. Jun 7

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Mikihiro Hayashi, presiding 9:30 3E03 Synthesis and physical properties of degradable cross-linked polybutadiene using polycysteine as a cross-linker Kousuke Tsuchiya, Kayo Terada, Yui Tsuji, Keiji Numata, Takuya Katashima, Takamasa Sakai 9:45 3E04 Preparation and degradation of covalently crosslinked alginate networks containing disulfide bonds Hiromitsu Sogawa, Riko Ikezumi, Fumio Sanda 10:00 3E05 Underwater degradation of hindered diaminodisulfide and its use for polymer degradation Masashi Yamauchi, Hirogi Yokochi, Gota Tomono, Akira Takahashi, Hideyuki Otsuka Fumio Sanda, presiding

10:15 3E06ILY Synthesis and degradation of polymers using carboxy-exchange in conjugate substitution reaction and its application to vitrimer-like elastomer

Yasuhiro Kohsaka

10:45	3E08	Main-chain Scission and Repolymerization of Polyesters through a Carboxylic Acid Exchange by Conjugate Substitution Reaction Kinari Tsurumi, Sae Tezuka, <u>Takumi Noda</u> , Yasuhiro Kohsaka
11:00	3E09	Synthesis of polyesters bearing hydroxy side groups via click reaction and transformation into vitrimers through intermolecular transesterification <u>Mikihiro Hayashi</u> , Taketo Isogai
11:15	3E10	Synthesis and properties of cross-linked polymers with dynamic bisarylcyanoacetates <u>Jihye Jeon</u> ,Rikito Takashima,Akira Takahashi,Hideyuki Otsuka
	I	Kotaro Satoh, presiding
13:00	3E14	Thermal degradation behavior of BOC-containing methacrylate polymers including thermally latent acid monomer units Ryotaro Akahori, Yasuhito Suzuki, <u>Akikazu Matsumoto</u>
13:15	3E15	Synthesis and ammonolysis of network polymers based on aliphatic polycarbonates <u>Rikuto Niki, Kazuaki Rikiyama, Tatsuo Taniguchi, Daisuke Aoki</u>
13:30	3E16	Polymer additives that can be converted to fertilizers after use and those recycle systems Shunsuke Fujimata, Kazuaki Rikiyama, Tatsuo Taniguchi, Daisuke Aoki
13:45	3E17	Modification of sugar-based polycarbonates via bond exchange reactions <u>Tomoya Sakagami</u> ,Kazuaki Rikiyama,Tatsuo Taniguchi,Daisuke Aoki
	I	Daisuke Aoki, presiding
14:00	3E18	Analysis of Gelation Mechanism by Structural Analysis Using Degradation <u>Junichiro Takahashi</u> ,Satoshi Sakai,Tomohiro Kubo,Kotaro Satoh
14:15	3E19	Controlled/Living Click Polymerization for the Synthesis of Self-Immolative Polymers <u>Yuto Nakauchi</u> ,Satoshi Sakai,Sota Yamamoto,Tomohiro Kubo,Kotaro Satoh
14:30	3E20	Direct thionation of polyesters to enhance their degradability <u>Masayuki Okamoto</u> , Tomohiro Kubo, Kotaro Satoh
14:45	3E21	Degradation behavior of ABS studied by isothermal in-situ infrared spectroscopy combined with principal component analysis Ryota Watanabe, Akihiro Oishi, Sayaka Nakamura, Hideaki Hagihara, Hideyuki Shinzawa

Room F

Wed. Jun 5

D. BIOPOLYMERS AND BIORELATED POLYMERS

Yui Tsuji, presiding

10:00 1F05 Study on the structural changes in the crystalline and non-

		crystalline regions of 13C labeled silk due to stretching treatment, as investigated by 13C solid-state NMR tetsuo asakura,akio nishimura,akira naito
10:15	1F06	Structure and properties of fullerene-containing protein cages <u>Taiga Suzuki</u> , Yuki Hishikawa, Yumie Nishiyama, Kazunori Motai, Yuhei Hayamizu, Takafumi Ueno
10:30	1F07	Molecular interface engineering of in-cell protein crystals for dynamical change of the crystal lattices <u>Misaki Nagama</u> ,Junko Tanaka,Tiezheng Pan,Maity Basudev,Satoshi Abe,Takafumi Ueno
		Takafumi Ueno, presiding
10:45	1F08	Evaluation of Enzymatic Activities and Substrate Specificity of Modular Units 8 and 9 in the Polymyxin B Non-Ribosomal Peptide Synthetase <u>Wataru Ando</u> , Taichi Mano, Mai Nemoto, Toshihisa Mizuno
11:00	1F09	Evaluation of the enzymatic activity of the module 1 in polymyxin B synthase and study on the substrate recognition site of the several modules for L-Dab in polymyxin B synthase Mai Nemoto, Wataru Ando, Taichi Mano, Toshihisa Mizuno
11:15	1F10	Synthesis of rotaxane from cyclic peptide with an alternating sequence of Pro and Gly <u>Taichi Kurita</u> , Joan Gimenez-Dejoz, Hirotaka Uji, Keiji Numata
		Toshihisa Mizuno, presiding
13:15	1F15	Oxygen-responsive viscoelasticity of hemoglobin–PEG gel <u>Takashi Matsuhira</u> ,Hiromi Sakai
13:30	1F16	Development of a new mitochondrial targeting peptide sequence for plants based on the secondary structure prediction Naoya Abe , Masaki Odahara, Shamitha Rao Yagi, Keiji Numata
13:45	1F17	Construction of microtubule superstructures by presentation of Tau-derived peptide on the outer surface of microtubules <u>Hiroshi Inaba</u> ,Daichi Kageyama,Akira Kakugo,Kazunori Matsuura
		Yoshiaki Hirano, presiding
14:00	1F18	Creation of corona virus replica equipped with spike protein and its binding analysis to ACE2 <u>Kazunori Matsuura</u> , Hiroto Furukawa, Hiroshi Inaba, Yoshihiro Sasaki, Kazunari Akiyoshi
14:15	1F19	Identification of Peptides Recognizing SARS-CoV-2 Spike Proteins by Biopanning in Acoustically Levitated Droplets. <u>Manaka Kawai</u> , Toshinori Sato, Teruhiko Matsubara
14:30	1F20	Construction and Evaluation of Cancer Cell Selective Drug Delivery System IV: Synthesis of oligonucleotide therapeutics conjugates aimed at suppressing malignant progression of pancreatic cancer hirari kato ,ryota azuma,yasuyuki araki,masaki nishijima,mitsuyo matsumoto,asako yamayoshi,kazuhiko igarashi,mika omura,ikuhiko nakase,takehiko wada
		Kazunori Matsuura, presiding
14:45	1F21	Inner-membrane synthesis of oriented transmembrane DNA units <u>Haruna TAKEHARA</u> ,Takumi NISHIDA,Akinori KUZUYA
15:00	1F22	Binding analysis of DNA Origami to liposome membranes <u>Mikano KAWAI</u> ,Akinori KUZUYA
15:15	1F23	Development of long range energy transmission system utilizing

		DNA-scaffolded BRET system <u>Asuka TATEDORI,</u> Yuki MINAMIDE,Koichi TANIMOTO,Fumiaki TAKANO,Akinori KUZUYA
15:30	1F24	DNA conjugates with cationic comb-type copolymer for triplex DNA stabilization Raito Hayashi,Minako Saito,Naohiko Shimada, <u>Atsushi Maruyama</u>
	s	hoichiro Asayama, presiding
15:45	1F25	Photoregulation of nanostructure composed of L-aTNA triplex carrying artificial nucleobase <u>Keiji Murayama</u> ,Keito Hirano,Hiroyuki Asanuma
16:00	1F26	Development of Chimeric Artificial Nucleic Acids (CANA) Toward Pancreatic Cancer Therapeutics Targeting Vasohibin 2 I: - Design, Synthesis, and in vitro Property Study. <u>Kosuke Machida</u> , Masahito Inagaki, Mitsuyo Matsumoto, Yasuyuki Araki, Yasushi Sato, Takehiko Wada
16:15	1F27	Development of Chimeric Artificial Nucleic Acids (CANA) toward Pancreatic Cancer Therapeutics Targeting BACH1 V – Investigation of CANA–Target RNA Complex Stability and Its Effect on Cleavage Efficiency- <u>Yuki Igarashi</u> , Yuto Horiuchi, Mitsuyo Matsumoto, Masahito Inagaki, Yasuyuki Araki, Masaki Nishijima, Yu Mikame, Asako Yamayoshi, Kazuhiko Igarashi, Takehiko Wada
16:30	1F28	Construction of Chimeric Artificial Nucleic Acids (CANA) toward Pancreatic Cancer Treatments by Inhibition of Transcription Factor BACH1 V: Establishment of Molecular Design Strategy Based on in vitro /in vivo Analysis Yuto Horiuchi, Kazutoshi Fujita, Yuki Igarashi, Nozomu Ishiwata, Masahito Inagaki, Mitsuyo Matsumoto, Hironori Hayash, Yu Mikame, Yasuyuki Araki, Masaki Nishijima, Asako Yamayoshi, Eiichi Kodama, Takehiko Wada

Thu. Jun 6

AWARD LECTURES

	M	asato Ikeda, presiding
10:00	2F05AL	Preparation and Characterization of Two-dimensional Sheet-shaped Poly(methyl methacrylate) Synthesized via γ-Ray Polymerization in Nanoclay Template Yuya Doi
	T	akeshi Serizawa, presiding
10:30	2F07AL	Observation of Molecular Motions in Polymer Thin Films by Laboratory Grazing Incidence Diffracted X-ray Blinking <u>Rena Inamasu</u> ,Hiroki Yamaguchi,Tatsuya Arai,Jaewon Chang,Masahiro Kuramochi,Kazuhiro Mio,C.Yuji Sasaki
	T	akuma Yasuda, presiding
11:00	2F09AL	Stretchable π-Conjugated Polymer Electrets for Mechanoelectr

Akira Shinohara, Manabu Yoshida, Chengjun Pan, Takashi Nakanishi

D. BIOPOLYMERS AND BIORELATED POLYMERS "English Session"

Koichi Shiraishi, presiding 2F14ILI Leveraging β-Adrenergic Receptor Signaling Blockade for Improved Cancer Immunotherapy Through Biomimetic Nanovaccine Zheng Wang Regulation of macrophages polarization by fluorescein-2F16 conjugation for iron-oxide MR contrast agent

Raghav Soni, Xin Tian, Atsushi Mahara In vivo whole tissue imaging of tumor microvasculature by 2F17 supramolecular MR contrast agents. Xin Tian, Raghav Soni, Atsushi Mahara

Atsushi Mahara, presiding

13:00

13:30

13:45

14:00	2F18	Molecular cooperativity plays crucial roles for immunogenicity Koichi Shiraishi, Masayuki Yokoyama
14:15	2F19	Binding specificity of Anti-PEG antibody to PEG depends on molecular behavior of PEG <u>Debabrata Maiti</u> ,Koichi Shiraishi,Masayuki Yokoyama
14:30	2F20	Self-Immolative Behavior of Reduction-Responsive DNA-Based Nanostructures Containing Poly(carbamate) Core Ren Ishiyama, Taichi Fukumori, Syuuhei Komatsu, Akihiko Kikuchi, <u>Yoshitsugu Akiyama</u>
14:45	2F21	Design and Characterization of Artesunate-containing Polymers <u>Natsumi Ito</u> , Taishu Iwase, Gyeongwoo Lee, Nabil Ahmed, Koichiro Uto, Mitsuhiro Ebara
14:45	2F21	Design and Characterization of Artesunate-conta Natsumi Ito, Taishu Iwase, Gyeongwoo Lee, Nabil

		Tsuyoshi Kimura, presiding
15:00	2F22	Hydration analysis of a lactose-containing glycopolymer <u>Shohei Shiomoto</u> ,Masaru Tanaka
15:15	2F23	Synthesis of Cholinephosphate-type Poly(meth)acrylate and Characterization of Their Hydration Water Yasutada Ohta,Raita Goseki, Motoyasu Kobayashi
15:30	2F24	Control of Temperature-Responsive Gold Nanorod Assembly with Uniform Orientation on dsDNA Brush Substrate <u>Jingyan Yang</u> , Hideyuki Mitomo, Yu Seikizaw, Yusukei Yonamine, Kuniharu Ijiro
15:45	2F25	Smart enrichment and purification strategy of SARS-CoV-2 viruses in real biological samples from 166 patients to avoid misdiagnosis of RT-PCR <u>Ahmed Nabil</u> , Erika Yoshihara, Ayman A. Hassan, Gamal Shiha, Mitsuhiro Ebara
		Mitsuhiro Ebara, presiding

		Shiha, Mitsuhiro Ebara
	1	Mitsuhiro Ebara, presiding
16:00	2F26	Effect of 8-arm PEG functionalized porcine pericardium as the antiadhesion membrane in vivo <u>Sreypich Say</u> ,Mika Suzuki,Yoshihide Hashimoto,Tsuyoshi Kimura,Akio Kishida
16:15	2F27	Gluing blood into gel using a water-soluble polymer as an embolic agent <u>Hailong Fan</u> ,Toshiya Osanai,Jian Ping Gong
16:30	2F28	Development of fluid interfacial phospholipid membranes with

tunable mechanical properties as dynamic cell-interactive

scaffolds

<u>Junhong ZHOU</u>,Hongxin WANG,Jun NAKANISHI

16:45 2F29 Structure and properties of phosphomimic N-terminal domain of spider dragline silk proteins and its implications for spider silk synthesis.

<u>Nur Alia Oktaviani</u>,Hamish Craig,Mami Goto,Fumiaki Hayashi,Masaru Mori,Kazuharu Arakawa,Keiji Numata

D. BIOPOLYMERS AND BIORELATED POLYMERS

Mineo Hashizume, presiding

9:30	3F03	Characterization of thiol-ene reaction products using fully methacrylated D-glucopyranose and 1,2-ethanedithiol <u>Maiki Kubota</u> ,Ryuji Sugiura,Atsushi Kobayashi
9:45	3F04	synthesis of alternating glyco-copolymers for synthesizing polysaccharides Shuji Zenke, Yuto Nakanishi, Ryo Omikawa, Tomonari Tanaka
10:00	3F05	Preparation of chitosan beads using polyanions as crosslinkers and investigation of their application as pH-responsive protein carriers. Satoshi Tanimoto, Takumi Morita, Shokyoku Kanaoka, Makoto Anraku
10:15	3F06	Preparation of chitosan/starch blend beads as protein carriers and evaluation of pH-responsibility <u>Takumi Morita</u> ,Shokyoku Kanaoka,Satoshi Tanimoto
10:30	3F07	Synthesis of mixed chitin esters with thermoplasticity Yuki Shigenobu, Masayasu Totani, Jun-ichi Kadokawa
	K	azuo Sakurai, presiding
10:45	3F08	Synthesis of Glucosamino-2-Deoxyglucan by Enzymatic Copolymerization <u>Yuta Miyahara</u> ,Masayasu Totani,Jun-ichi Kadokawa
11:00	3F09	Fabrication of Photo-Responsive Polysaccharide Composite Films Using Azobenzene-Conjugated Hyaluronic Acid and Their Evaluation Takuya Sagawa, Riho Nakama, Mineo Hashizume
11:15	3F10	Structural Reinforcement of Polysaccharide Composite Films in Swollen State Using Biomolecule-Derived Cross-Linking Agents Yui Sakai, Takuya Sagawa, Mineo Hashizume
11:30	3F11	Development of Chitosan gel as a near-infrared fluorescent dye <u>Kaho Morinaga</u> , Yuki Akagi
	Jı	un-Ichi Kadokawa, presiding
12:45	3F13	Surface modification of cellulose fibers via self-assembly of alkylated cellulose oligomers and bacterial adhesion properties Sayaka Okamoto , Yuuki Hata, Takeshi Serizawa
13:00	3F14	Evaluation of Self-Folding Behavior of Amphiphilic Glycopolymers in Water <u>Yoko Kitsuki</u> , Hikaru Matsumoto, Masanori Nagao, Yoshiko Miura
13:15	3F15	Precise Synthesis of Cyclic Glycopolymers by Click Chemistry Yusuke Kumon, Hikaru Matsumoto, Masanori Nagao, Yosiko Miura

Takeshi Serizawa, presiding

13:30	3F16	Hydrophobization of celluose nanofiber by enzymatic copolymerization of D-glucalwith α-D-glucose 1-phosphate <u>Masayasu Totani</u> ,Tomoya Anai,Jun-ichi Kadokawa
13:45	3F17	Quantitative evaluation of the interactions between glycopolymers in the presence of metal ions <u>Tomoya Sumura</u> , Hikaru Matsumoto, Masanori Nagao, Yoshiko Miura
14:00	3F18	Evaluation of binding of synthetic polymers whose motility is controlled by folding structure to target proteins. <u>Daichi Yoshimatsu</u> , Hikaru Matsumoto, Masanori Nagao, Yoshiko Miura
14:15	3F19	Changes in the uptake behavior of natural polysaccharide/nucleic acid complexes by Dectin-1 expression level <u>Sota Yoshitake</u> ,Kazuki Sumiya,Hiroto Izumi,Kazuo Sakurai

Room G

Wed. Jun 5

INVITED LECTURES "English Session"

Yukio Nagasaki, presiding 10:00 1G05IL Advanced Wearable Organic Electrochemical Transistors Utilizing Poly(3,4-Ethylenedioxythiophene) Derivatives within Channel Layers for Biomedical Applications Yu-Sheng Hsiao 10:30 1G07IL Development of antiviral copper-plated polypropylene non-woven fabric filter Yu-I Hsu 11:00 1G09IL Controlling Circular Polarization Luminescence of Stereoregular Poly(methyl methacrylate) Ming-Chia Li, Tsz-Ming Yung, Hinari Sakai, Tomoyasu Hirai Hiroyuki Aoki, presiding 13:30 1G16IL Analysis of the molecular interaction in structure-controlled polymer interface and construction of machine learning model Tsukuru Masuda 14:00 1G18IL Semiconducting Polymers with Conjugation Breakers for Stretchable Field-Effect Transistors Yan-Cheng Lin, Ping-Hong Chen, Megumi Matsuda, Tomoya Higashihara 14:30 1G20IL Synthetic development on Two-dimensional polymers and their use for water purification Michio Matsumoto Yukio Nagasaki, presiding 15:00 1G22IL Progress on the Waste Polycarbonate Recycling Chien-Hsin Wu, Ying-Chi Huang, Ru-Jong Jeng 15:30 1G24IL Polymersomes-based activable therapeutic nanoreactors for tumor-specific cancer therapy

Junjie Li

16:00 1G26IL A study on extending the scope of reagents in inverse vulcanization for preparation of sulfur-rich polymers Ying-Ling Liu, Yue-Sheng Lai, Ho-Keng Lin

Thu. Jun 6

F. INDUSTRIAL POLYMERS AND TECHNOLOGY "English Session"

Yuji Shibasaki, presiding 9:30 2G03 Thermal diffusion of carbon into polytetrafluoroethylene Masayuki ITO 9:45 2G04 Evaluation of Water Resistance of Adhesive Joints Using Open-Faced Specimens keiji houjou, Kazumasa Shimato, Horiuchi Shin, Nao Terasaki, Haruhisa Akiyama 10:00 2G05 Fabrication of water-system silicone-modified polyurethane nanofibers for waterproof and breathable membranes FANG LI, Toshihisa Tanaka, Daisuke Noda, Shinji Irifune, Hiromasa Sato 10:15 2G06 Effect of Different Soaking Solvents on the Structure and Properties of P(3HB) Copolymers Drawn films in Microcrystalline Nucleation Extension Method KAI WENG, Yumiko Takayama, Motomu Nishijo, Toshihisa Tanaka 10:30 2G07 Multiscale structural analysis of solid electrolytes using **iMATERIA** Nana Fukaya, Haruyuki Takahashi, Satoshi Koizumi

D. BIOPOLYMERS AND BIORELATED POLYMERS

Yoshiko Miura, presiding

10:45	2G08	Synthesis and functional evaluation of amino acid-bearing polymers that bind to lignin Tomonari Tanaka , Rika Hinohara
11:00	2G09	Biocompatibility of copolymer composed of zwitterionic vinyl ethers and maleimides with various side chains <u>Tadashi Nakaji-H.</u> ,Tomoyuki Yamaguchi,Michio Urushisaki,Toshikazu Sakaguchi,Tamotsu Hashimoto
11:15	2G10	Development of hierarchical polyion complex structures obtained via phase separation driven by rationally designed polymers Takumi Yamada,Biplab KC,Hiroshi Kamizawa,Teruki Nii,Takeshi Mori,Yoshiki Katayama,Akihiro Kishimura
11:30	2G11	Microphase separation of aqueous polymer blends: Self- generation of periodically aligned uniformly-sized binary-droplets <u>Mayu Shono</u> ,Koki Aburatani,Miho Yanagisawa,Kenichi Yoshikawa,Akihisa Shioi
	Kı	uniharu Ijiro, presiding
12:45	2G13ILY	Fabrication of soft materials based on biomolecules

12:45 2G13ILY Fabrication of soft materials based on biomolecules Kazuki Murai

13:15	2G15	Membrane fusion by oligopeptide-polymer conjugates facilitating adhesion between bilayer membranes <u>Yuya Sato</u> , Ung-il Chung, Yuji Teramura
13:30	2G16	Synthesis of Amino Acid-Derived Zwitterionic Polymer and Evaluation of Their Ice-Binding Abilities <u>Shuya Tanaka</u> ,Hikaru Matsumoto,Masanori Nagao,Yoshiko Miura
13:45	2G17	Folding behaviors of amino acid-derived vinyl polymers containing anionic and cationic blocks Shuhei Hiroe,Shin-nosuke Nishimura,Tomoyuki Koga
	To	omonari Tanaka, presiding
14:00	2G18	Structural changes of template peptides progressing on hydroxyapatite mineralization <u>Yusuke Hattori</u> ,Shogo Matsubara,Masahiro Higuchi
14:15	2G19	Development of Bio-Synthetic Fusion Materials Formed by Mucin-Boronic Acid Interaction and Application to Biomaterials Masaki Nakahata, Satoru Kawakami, Akihito Hashidzume
14:30	2G20	Structure induced food texture printed by food 3D printing Kaei Furuya, <u>Makoto Takemasa</u>
14:45	2G21	Encapsulation in coacervates induced by cooling augments DNA enzyme activity Takuya Komachi,Shunya Kawai,Yuki Hirayama,Atsushi Maruyama,Naohiko Shimada
15:00	2G22	Control of rolling circle transcription of an RNA polymerase with gold nanoparticles mimicking a repressor protein Yusuke Yonamine , Wei Jie Cheah, Tomoki Ikemizu, Hideyuki Mitomo, Kuniharu Ijiro
15:15	2G23	Polydopamine modification of polypropylene for improved adhesion. <u>Akane Odagaki</u> ,Yu-I Hsu,Hiroshi Uyama
	K	azunari Akiyoshi, presiding
15:30	2G24ILY	Multi-Functionalize Silk Protein-Based Drug-Carriers via Coalescence with Noble Metallic Nanostructures <u>Anh T.N. Dao</u>
16:00	2G26ILY	Polymers containing metal complexes toward drug designs Shigehito Osawa
16:30	2G28	Synthesis of amphiphilic block copolymers and particles possessing kidney cell recognition Haruki ITO,Syuuhei KOMATSU,Yoshitsugu AKIYAMA,Akihiko KIKUCHI
16:45	2G29	Interactions of thermosensitive shape-deformable polymer particles having macrophage targeting moieties and macrophages Tomohiro OIZURU,Syuuhei KOMATSU,Akihiko KIKUCHI

Fri. Jun 7

D. BIOPOLYMERS AND BIORELATED POLYMERS

Takahiro Muraoka, presiding

9:30	3G03	Characterization and regulation of 2D-3D convertible lipid
		membrane transformation

0.45	2001	ancheng Zhang,Yuta Uei,Tomoaki Matsuura, <u>Atsushi Maruyama</u>
9:45	3G04	Formation of lipid cubic phase with organic-inorganic hybrid structure <u>Kazuma Yasuhara</u> , Miki Kariya, Kenichiro Omoto, Kaoru Nomura, Kento Yonezawa, Hironari Kamikubo, Toshio Nishino, Tomomi Inoie, Gwenael Rapenne
10:00	3G05	Creation of Artificial Cytoskeleton by Photoresponsive Peptide Nanofibers <u>Yingbing Liang</u> , Hiroshi Inaba, Kazunori Matsuura
10:15	3G06	Evaluation of up-conversion in cholesterol-containing liposomes <u>Hideki Kawai</u> ,Urara Hioki
	1	Atsushi Maruyama, presiding
10:30	3G07	Fabrication of single-enzyme nanogels with zwitterionic polymers <u>JINCAI LI</u> ,YINAN LUAN,XUEJIN HUANG,MADOKA TAKAI
10:45	3G08	Extraction and Characterization of Membrane-based nano- particles derived from Petal Apoplast <u>Mizuki Yoshihara,</u> Haruka Iida,Rina Shimizu,Asuka Yamashita,Yoshihiro Sasaki,Masataka Yoshimoto,Hikaru Takaya
11:00	3G09	Creation of Artificial Membrane Proteins with Catalytic activity Based on Amphiphilic Random Copolymers <u>Chieri Inada</u> ,Tomoki Nishimura
11:15	3G10	Synthesis and unction of Artificial Ion Channels Based on Amphiphilic Block Copolymers <u>Shunji Kosaka</u> ,Tomoki Nishimura
11:30	3G11	Fabriaction of graft copolymer micelles with different shapes and their recognition by macrophages Yusuke Sakamoto,Shota Fujii,Shin Takano,Ando Mitsuru,Noriyuki Kodera,Tomoki Nishimura
]	Kenichi Niikura, presiding
12:45	3G13	Controlled interaction of polyoxazolines with biomembranes based on their temperature responsiveness <u>Kazuki Nakamura</u> , Yoshihiro Sasaki, Tomoki Nishimura, Kazunari Akiyoshi
13:00	3G14	Phase transition of anisotropic nanostructures constructed by amphiphilic diblock peptoid with a crystalline segment Renya Fukuda, Yota Okuno, Tomoki Nishimura, Akinori Kuzuya, Yasuhiko Iwasaki
13:15	3G15	Specificity of Cononsolvency Induced Microphase Separation Yuji Higaki, Takumi Masuda, Nakamura Mai, Takahashi Masaya
	7	Tomoki Nishimura, presiding
13:30	3G16	Material Science of Membrane Deformation (1): Development of a One-sided Membrane Expanding Molecular Machine and Its Applications for Manipulation of Membrane Deformation Ken Yoshizawa, Noriyuki Uchida, Takahiro Muraoka
13:45	3G17	Material Science of Membrane Deformation (2): Structurally Stable Phospholipid Membrane Tube Induced by Self-assembly of Peptide Receptors <u>Noriyuki Uchida,</u> Ryu Ishizaka,Anju Kawakita,Masaki Okumura,Takahiro Muraoka
14:00	3G18	Azacrown ether/Tannic acid-based supramolecular conjugation with the protein-encapsulation functionality Chisaki Nakaji, Akihiko Hatano, Kenichi Niikura

14:15 3G19 Structural Investigation of Cyclic Poly(Ethylene Glycol)-Gold Nanoparticle Adsorption Complexes

<u>Tomohisa Watanabe, Hiroki Iwase, Akiyuki Ryoki, Akira</u>
Takatsuka, Masato Yamasaki, Yoko Kinoshita, Takuya Yamamoto

Room H

Wed. Jun 5

13:45

1H17

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

Hiroharu Ajiro, presiding 10:00 1H05ILI Controlled Synthesis of Dynamic Covalent Poly(disulfide)s Tianyi Du, Miaomiao Zhang, Boming Shen, Yuming Su, Cheng Wang,Peiyuan Yu,Yun Liu 10:30 1H07 Controlled/Living Click Polymerization of Conjugated AB Monomers Seiichiro Uchida, Satoshi Sakai, Tomohiro Kubo, Kotaro Satoh 10:45 1H08 Synthesis and Controlled/Living Click Polymerization of Monodisperse PCL Oligomers Yasuaki Kobayashi, Satoshi Sakai, Tomohiro Kubo, Kotaro Satoh Shin-Ichi Yusa, presiding 11:00 1H09 Polymerization of monodisperse poly(butylene succinate) oligomers and their degradation studies Ravi Teja ANANTHU, Tomohiro KUBO, Masami KAMIGAITO, Takako KIKUCHI, Kotaro SATOH Exploration on synthesis of unique topologies bearing polymer via 11:15 1H10 dynamic bond formation of phenylboronic acid and diol Tojo Fenosoa ANDRIANALY, Tsuyoshi ANDO, Hiroharu AJIRO 1H11 A New Coordination Induced In Situ Electropolymerization 11:30 Approach for the Synthesis of Metallosupramolecular Polymers (MSPs) and its Electrochromic Application Satya Ranjan Jena, Jian Zhang, Masayoshi Higuchi Takanori Iwasaki, presiding 12:45 1H13 Controlled Ring-Opening Polymerization of a Cyclic Carbonate Monomer with ortho-Nitrobenzyl Group and Photo-degradation of the Resulting Polymers Jiade WU, Masatoshi TOSAKA, Shigeru YAMAGO 13:00 1H14 Polymerization of Various 1-Phenyl-1,3-Butadiene Derivatives from Plant-Based Compounds Yasunobu Isobe, Shiho Tanizaki, Tomohiro Kubo, Kotaro Satoh 13:15 1H15 Photocontrolled RAFT polymerization for the preparation of catechol-containing polymers Rui Guo, Shiho Tanizaki, Tomohiro Kubo, Kotaro Satoh 13:30 1H16 Exploring the Potential of Organomediator Tropone and its Derivatives for Reversible-Deactivation Radical Polymerization in Aqueous Medium I-Hsiang Chang, Ting-Yu Lin, Po-Tsun Lai, Chi-How Peng

Reversible-Deactivation Radical Polymerization of Vinyl Monomers

Mediated by Schiff-Bases <u>Wachara Benchaphanthawee</u>,Chi-How Peng

Ikuvoshi	Tomita,	presiding
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Ikuyoshi Tomita, presiding		
14:00	1H18	Machine learning based evaluation for radiation-induced graft polymerization in green solvents <u>Kiho Matsubara</u> ,Tooru Niradsuka,Masaaki Omichi,Noriaki Seko,Takashi Matsuda,Kei Takahashi,Ryouhei Kakuchi
14:15	1H19	Catalytic hydrogenolysis of ureas for chemical recycling of plastics <u>Takanori Iwasaki</u> ,Kazuki Tsuge,Naoki Naito,Kyoko Nozaki
14:30	1H20	Synthesis of Alternating Copolymers Possessing the Dense Triazole Backbone through Copper(I)-Catalyzed Azide-Alkyne Cycloaddition Polymerization <u>Akihito Hashidzume</u> ,Yuri Kamon,Masaki Nakahata
14:45	1H21	Fluorine-driven amorphous solid-state polycondensation: Phosgene-free synthesis of high-molecular weight polycarbonate from fluorinated carbonate Taihei Tanigu,Naoko Shirota,Takashi Okazoe,Shin-ichi Matsuoka,Katsuhiro Yamamo,Masato Suzuki
	A	kihito Hashidzume, presiding
15:00	1H22ILI	New sp-carbon-rich backbones enabled by condensation polymerization of propargylic electrophiles Rong Zhu
15:30	1H24	BINOL-Based Bimetallic Main Group Complexes for Lactide Polymerization <u>Maxym Tansky</u> ,Robert J. Comito
	SI	hin-Ichi Matsuoka, presiding
15:45	1H25	synthesis of biobased poly(ester amide)s by acyclic diene metathesis polymerization of oligopeptide-derived diene monomers and tandem hydrogenation Mohamed Mehawed Abdellatif, Kotohiro Nomura
16:00	1H26	Precise Synthesis of bottlebrush conjugated polymer based on poly(fluorene vinylene) by olefin metathesis <u>Daisuke Shimoyama</u> , Hiroki Chino, Mikiko Kunisawa, Kotohiro Nomura
16:15	1H27	Coordination Copolymerization Behavior of Norbornene and Allene Derivatives with Highly Active Nickel Catalysts Taidong Yao , Ryoyu Hifumi, Ikuyoshi Tomita
D. BIOPOLYMERS AND BIORELATED POLYMERS		

Akihiko Kikuchi, presiding

9:30	2Н03	Cilostazol-releasing acellular tissue for suppressing the vascular graft stenosis <u>Atsushi Mahara</u> ,Kaito Shimizu,Hue Le,Raghav Soni,Yoshiaki Hirano,Tetsuji Yamaoka
9:45	2Н04	Electrochemical detection of sialic acid using conducting polymers with phenylboronic acid-containing dopants Lingxuan Chen, <u>Tatsuro Goda</u>
10:00	2H05	Fabrication of Electrospun Nanofibers for Removal of Indoxyl Sulfate from Blood <u>Makoto Sasaki</u> ,Mitsuhiro Ebara

10:15	2H06	Synthesis and Properties of Polymers Bearing Betaine Structures Based on Polyallylamines <u>Yasuyuki Mori</u> ,Yoshio Furusho
	M	itsuhiro Ebara, presiding
10:30	2H07	Characterization of polymer nanoparticles responding to glucose for possible usage in visual diagnosis of diabetes mellitus Fumihide INOUE,Syuuhei KOMATSU,Taka-Aki ASOH,Akihiko KIKUCHI
10:45	2H08	Preparation of pigment-encapsulated polymer particles with DNA corona layer for visual diagnosis Shunsuke HATTORI,Syuuhei KOMATSU,Yoshitsugu AKIYAMA,Taka-Aki ASOH,Akihiko KIKUCHI
11:00	2H09	Surface modification of cellulosic fibrous materials via self-assembly of cello-oligosaccharides for microorganism control Yuuki Hata, Yudai Mizuuchi, Sayaka Okamoto, Hiromi Miyazaki, Shingo Nakamura, Toshiki Sawada, Takeshi Serizawa
11:15	2H10	Distinguishment of Anti-PEG Antibodies by Molecularly Designable Cello-oligosaccharide Assemblies <u>Kai Sugiura</u> ,Yuuki Hata,Toshiki Sawada,Hiroshi Tanaka,Takeshi Serizawa
	Si	hoichiro Asayama, presiding
13:00	2H14ILY	Development of a multi-functional nucleic acid delivery system using phenylboronic acid -from medicine to agriculture- Naoto Yoshinaga
13:30	2H16	Cytosolic delivery of proteins using phospholipid polymer bioconjugates exhibiting cell permeability <u>Yuta Yoshizaki</u> ,Koki Onoda,Tomohiro Konno
13:45	2H17	Design of Self-Assembled Nanoparticles Composed of Branched-Chain Amino Acid Polymers and Improvement of Exercise Performance <u>Takuto Toriumi</u> , Yukio Nagsaki, Nobuyuki Morimoto
14:00	2H18	Live imaging analysis with mitochondria-localized sulfobetaine polymers <u>Sayaka Toita</u> , Nobuyuki Morimoto
	N	obuyuki Morimoto, presiding
14:15	2H19	Design of Proximal Enzymes-Targeted Polymer that Synergistically and Selectively Inhibits Cancer Cell Proliferation <u>Yuki Koba</u> ,Masahiko Nakamoto,Michiya Matsusaki
14:30	2H20	Tumor Microenvironment-sensitive Cancer Cell Death Induction Based on Regulating Aggregation Property of Ursodeoxycholic Acid Modified Molecular Block <u>Kazuki Moroishi</u> ,Masahiko Nakamoto,Michiya Matsusaki
14:45	2H21	Emergence of Target Enzyme Inhibition Triggered by Bioorthogonal Reaction between Polymeric Self-Assemblies <u>Masahiko Nakamoto</u> ,Rentaro Sakamoto,Yuki Koba,Michiya Matsusaki
15:00	2H22	Anti-inflammatory Effect of Poly(cysteine)-Based Polymer Antioxidant Drugs on Nonalcoholic Steatohepatitis <u>Yuta Koda</u> ,Yukio Nagasaki
	M	asahiko Nakamoto, presiding
15:15	2H23	Cytosolic siRNA delivery using peptide-lipid hybrid vesicle via membrane fusion pathway

		<u>Motoki Ueda, Mohammed Abosheasha, Afnan Elgowily, Yoshihiro Ito</u>
15:30	2H24	Different tumor accumulation properties between PEGylated dendrimers and PEGylated liposome after the second injection Chie Kojima , Junjie Yao, Akikazu Matsumoto
15:45	2H25	Controlled release of benzoxaborole-based drugs by polymeric carriers having diol groups <u>Yohei Kotsuchibashi</u> ,Yumika Unno,Sayuki Iwai,Kota Katsube
16:00	2H26	Suppression of hepatic insulin clearance by Zn-porphyrin-beta-galactose conjugates Shoichiro ASAYAMA , Shoma YOKOYAMA
16:15	2H27	Synthesis of Photoresponsive Polymers with Phenylboronic Acid Groups and Their Applications for Killing Tumor Cells <u>Takashi Miyata</u> ,Yoshitaka Hattori,Akifumi Kawamura
	s	ayaka Toita, presiding
16:30	2H28	Gold nanoparticle composites for improved retention time in blood for micro-sized angiography <u>Narufumi Kitamura</u> ,Takumu Takase,Tomoya Inose,Kohsuke Gonda
16:45	2Н29	Cellular uptake and anticancer activity study of DOX-loaded DNA quadruplex mesogels <u>Maria HASHIMOTO</u> , Haruki TANAKA, Daichi INUI, Kohei TATSUMI, Kana TERAGAMI, Yuichi OHYA, Akinori KUZUYA

Fri. Jun 7

D. BIOPOLYMERS AND BIORELATED POLYMERS

Akifumi Kawamura, presiding 9:30 3H03 PEGylation of anti-PD-L1 antibodies for the treatment of immunotherapy-resistant malignant brain tumors Yuki Mochida, Tao Yang, Xueying Liu, Hiroaki Kinoh, Horacio Cabral, Kazunori Kataoka 9:45 3H04 Development of hydrophobic boron cluster integrated extracellular vesicle and their application for BNCT Riku Kawasaki, Ayano Oshige, Keita Yamana, Yu Sanada, Takeshi Nagasaki, Minoru Suzuki, Ryosuke Mizuta, Yoshihiro Sasaki, Kazunari Akiyoshi, Atsushi Ikeda 10:00 3H05 Structural analysis of monodisperse polymeric nanoparticles encapsulating anticancer Takuma Kojima, Shin Takano, Kazuo Sakurai Yuki Mochida, presiding 3H06 10:15 Controlled Ondemand Drug Release by Diels-Alder-polymers Modified with Magnetic Nanoparticles Nanami Fujisawa, Mitsuhiro Ebara, James Lai 10:30 3H07 Preparation of thermo-responsive nanocapsule for DDS carriers Akifumi Kawamura, Tatsuya Miyoshi, Takashi Miyata Yuichi Ohya, presiding 3H08 10:45 Evaluation of capsule-forming capabilities of the GP-ZIP mutants Honami Yamazaki, Kousuke Takahashi, Toshihisa Mizuno

11:0	0 3Н09	Penetration and targeting abilities into tissue model gels of CaCO3-coated vesicles as DDS carriers <u>Wakana Nishiyama</u> , Shogo Matsubara, Masahiro Higuchi
11:1	5 3H10	Preparation of poly(γ-glutamic acid)/starch/hydroxyapatite hydrogels with self-healing ability <u>Rina Kugimiya</u> ,Yu-I Hsu,Akihide Sugawara,Hiroshi Uyama
11:30	0 3H11	Bone formation analysis of drug loaded polymer-inorganic composite materials for bone defect treatment Takuro AIKAWA, Syuuhei KOMATSU, Taka-Aki ASOH, Akihiko KIKUCHI
		Akihiro Nishiguchi, presiding
12:4	5 3H13	Novel cell culture system created with water-soluble bioinert polymer showing immediate photo-crosslinking <u>Kimio Sumaru</u> , Ayaka Tomoda, Kana Morishita, Toshiyuki Takagi
13:00	0 3H14	Development of Photo-responsive Cell Culture Scaffolds Using Coumarin-Modified Shellac Derivatives. <u>Kouki Ando</u> , Yurino Sunakawa, Toshihisa Mizuno
13:1	5 3H15	Creation of a visible light responsive azobenzene-bearing scaffold for the regulation of integrin-mediated mechanotransduction Itsuki Miyaguni, Kenta Homma, Michiya Matsusaki
13:30	0 3Н16	Analysis of collective cell migration on a novel photo-responsive hydrogel with a specific cell adhesion ligand on its surface <u>Kazuhiro Tatematsu</u> ,Shota Yamamoto,Masao Kamimura,Kazuo Yamaguchi,Jun Nakanishi
13:4	5 3H17	Fabrication and evaluation of the hydrogel containing cancer spheroids for the construction of cancer microenvironment Mako Kobayashi, Keito Tsutahara, Ryosuke Kawabata, Yoshihide Hashimoto, Tsuyoshi Kimura, Akio Kishida, Masaya Yamamoto
		Masaya Yamamoto, presiding
14:0	0 3H18	Preparation and differentiation of mesenchymal stem cell aggregates using its inducing peptides Masaki Iwamoto,Hiroaki Kadobayashi,Yoshiaki Hirano
14:1	5 3H19	Development of porous injectable gels by liquid-liquid phase separation and reconstruction of blood capillary networks Akihiro Nishiguchi , Shima Ito, Debabrata Palai, Tetsushi Taguchi
14:30	0 3H20	Tissue regeneration using biodegradable temperature-responsive injectable polymer and platelet rich plasma (PRP) <u>Yuichi Ohya, Keisuke Sasaki, Itsuki Kasatani, Yuki Miyaji, Nobuo Murase, Motogi Tamai, Noriyuki Taguchi, Yoshio Tanaka, Tomohisa Nagasao</u>
14:4	5 3H21	Design of Hydrogel Spray System with Tissue Adhesiveness and Instant Solidification Shohei Ishikawa,Hiroyuki Kamata,Takamasa Sakai

Room J

Wed. Jun 5

Kazushi l	Enomoto,	presiding
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	IX	azusin Enomoto, presiding
10:00	1J05	Daytime radiative cooling materials consisting of inorganic microparticle-dispersed polymer sheet <u>Tsunenobu Onodera</u> ,Makoto Shimizu,Hiroo Yugami,Hidetoshi Oikawa,Junichi Koike
10:15	1J06	Highly selective anion-exchange of a two-dimensional bis(terpyridine)cobalt(II) polymer <u>Kenji Takada</u> ,Hiroshi Nishihara
10:30	1J07	Photo-induced luminescence enhancement of ZnO Nanoparticles Assembled by Catechol-Functionalized Polycyclosiloxane Nanofilm <u>Qian Zhou</u> ,Huie Zhu,Masaya Mitsuishi
	H	uie Zhu, presiding
10:45	1J08ILI	Manipulating Nanosheets Orientation for Advanced Materials Xiang Wang, Yasuhiro Ishida
11:15	1J10	Stress-strain sensor fabricated with movable cross-linked carbon composites Ryohei Ikura, Kajimoto Kota, Park Junsu, Yoshinori Takashima
11:30	1J11	The hybrid material of thermal responsive copolymer gel with homogeneous network and gold nanoparticles Yian Wang, Mitsuo Hara, Yukikazu Takeoka
	M	asayoshi Higuchi, presiding
12:45	1J13ILI	Silicon Containing Functional Materials for Advanced Applications <u>Huie Zhu</u>
13:15	1J15	Development of Organic-Inorganic Hybrid Materials for 6th Generation Mobile Communication System <u>Seisuke Ata</u>
	SI	hunsuke Yamamoto, presiding
13:30	1J16	Correlation between the Molecular Structures and Frequency- Dependent Dielectric Properties of Aromatic Polyimides in the 25– 330 GHz Range <u>Haonan Liu</u> ,Ririka Sawada,Shana Yanagimoto,Yoshiyuki Yanagimoto,Shinji Ando
13:45	1J17	Highly sensitive analyses of sub-bandgap absorption in conjugated polymer films <u>Mizuki Yamazaki</u> ,Hyung Do Kim,Hideo Ohkita
14:00	1J18	Electrochromic printing using metallosupramolecular polymer <u>Masayoshi Higuchi</u> ,Jain Zhang,Ranjan Jena
	K	ozo Matsumoto, presiding
14:15	1J19	Surface Modification of Polypropylene by Azide-terminated Polysulfobetaine-grafted Silica Nanoparticles Ryuto Honda,Raita Goseki, <u>Motoyasu Kobayashi</u>
14:30	1J20ILY	Reliability evaluation of adhesively bonded joints and application to structural parts <u>Yu Sekiguchi</u>
	K	hoa Le, presiding
15:00	1J22	Adhesion control using orientation control of photo-reactive polymer liquid crystals <u>Mizuho Kondo</u> ,Tatsuki Nagata,Nobuhiro Kawatsuki

15:15	1J23	Eco-friendly Photolithography Technology Using Water-soluble Photoresist Materials <u>Yuna Hachikubo</u> ,Mano Ando,Sayaka Miura,Rio Yamagishi,Satoshi Takei
	I	Marine Louis, presiding
15:30	1J24	Development of highly sensitive laser ultrasonics using photorefractive liquid crystals <u>Takeo Sasaki</u> ,Van Khoa Le,Yumiko Naka
15:45	1J25	Correlation between the Photophysical Properties and Structural Changes of Thianthrene-Containing Imide Compound and Polyimide Generated by High Pressure <u>Liangkang Yu</u> , Hiroka Yamamatsu, Ryuichi Isoda, Haonan Liu, Shinji Ando
16:00	1J26	Fast colour switching of chiral electrochromic conjugated polymer devices <u>Masashi Otaki</u> , Hiromasa Goto
16:15	1J27	Nanofabrication of chiral nanostructures and its optical properties under modal coupling conditions <u>Tomoya Oshikiri</u> , Yasutaka Matsuo, Hiromasa Niinomi, Masaru Nakagawa

Thu. Jun 6

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

	Та	kashi Miyata, presiding
9:30	2J03	Strain Sensing by Orientational Change in Chiral Nematic Liquid Crystal Polymer Particles <u>Maki Ogata</u> ,Ryota Morimoto,Kohsuke Matsumoto,Osamu Tsutsumi
9:45	2J04	Reversible changes in gold nanorod orientation on polymer brush substrates via their thickness changes <u>Hideyuki Mitomo</u> ,Yu Sekizawa,Yuka Hasegawa,Yusuke Yonamine,Kuniharu Ijiro
10:00	2J05	Self-oscillating Polymer Coacervate <u>Haowei SUN,</u> Takafumi Enomoto,Aya Akimoto,Ryo Yoshida
10:15	2J06	Hierarchical Assembly of Self-oscillating Polymer Materials Zhouna Tang, Takafumi Enomoto, Takeshi Ueki, Ryota Tamate, Aya Mizutani Akimoto, Ryo Yoshida
	Hi	deyuki Mitomo, presiding
10:30	2J07	Phase separation induced glass transition with critical miscible condition <u>Takayuki Nonoyama</u> , Mayu Watanabe, Jian Ping Gong
10:45	2J08	Design of Temperature-responsive Polymers Undergoing Liquid- liquid Phase Separation and Observation of Formation of Coacervate Droplets <u>Takashi Miyata</u> ,Ryo Mashiba,Akifumi Kawamura
11:00	2J09	Development of Rotaxane-based Supramolecular Mechanophores Using Acenes as Fluorophores <u>Keigo Nonaka</u> ,Yoshimitsu Sagara
11:15	2J10ILI	Stimuli-Controlled Supramolecular Assemblies of

Photoresponsive Molecular Amphiphiles in Aqueous Media <u>Franco King-Chi Leung</u>

Ji Ha Lee, presiding

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12:45	2J13	Preparation of Dual Stimuli-Responsive Gels with Properties Controllable by Light and Temperature for Cell Regulation <u>Jared Travers Finch</u> ,Akifumi Kawamura,Takashi Miyata
13:00	2J14	Response Evaluation and Functionalization of Temperature- responsive Hydrogels with Different Side Chain Lengths <u>Taichi Nishi</u> , Takuma Kureha
13:15	2J15	Design of self-oscillating gel systems with built-in polymer reductant <u>Bokyoung JEON</u> ,Takafumi ENOMOTO,Aya M. AKIMOTO,Ryo YOSHIDA
13:30	2J16	Regulation of Self-oscillating Gels via Electrochemical Reaction <u>TSAI NING HU</u> ,Takafumi Enomoto,Aya M. Akimoto,Ryo Yoshida
13:45	2J17	Highly stretchable, conductive zwitterionic polymer hydrogels composed with cellulose/carbon nanomaterials <u>Tinghui Zhao</u> ,Tsukuru Masuda,Madoka Takai
	J	in Gong, presiding
14:00	2J18	Design and Optimization of a Photo-Responsive Hydrogel Inducing Pesticide Release via UV Stimulation <u>Ji Ha Lee</u> ,Wataru Kanda,Tomoyuki Tachibana,Riku Kawasaki,Isamu Akiba,Akihiro Yabuki
14:15	2J19	Organic-inorganic hybrid soft material exhibiting a sol-to-gel transition upon cooling and heating Shoma Kondo,Tomoki Nishimura,Yasuo Ebina,Takayoshi Sasaki, <u>Koki Sano</u>
14:30	2J20	Inorganic supramolecular nanosheets formed from highly oriented nanofibers <u>Daisuke Ogawa</u> ,Tomoki Nishimura,Koki Sano
	IV.	Aasahiro Funahashi, presiding
14:45	2J21	Development of Liquid-Crystalline Interfaces Exhibiting Biorecognition Functions <u>Junya Uchida</u> , Mina Hasome, Rie Makiura, Takashi Kato
15:00	2J22	Multiresponsive Azobenzene-Containing Chiral Liquid Crystal Elastomers for Advanced Applications <u>Zhengdan Lin</u> ,Shangsong Li,Yinding Chi,Yaoye Hong,Baohong Chen,Kan Hatakeyama,Yuta Nabae,Teruaki Hayakawa,Shu Yang
15:15	2J23	Controlling Helical Axis Orientation in Chiral Liquid-crystalline Polymers by Photo-gradient Polymerization <u>Yuki Shikata</u> ,Shohei Sugiyama,Maki Yanagihara,Kohsuke Matsumoto,Osamu Tsutsumi
15:30	2J24	Crosslinking Effect on Material Properties of Chiral Nematic Liquid Crystal Polymer Particles <u>Kohsuke Matsumoto</u> ,Kazuki Kawai,Tomoki Shigeyama,Osamu Tsutsumi
	J	unya Uchida, presiding
15:45	2J25	Sensitive Color Change of Chiral Liquid Crystal Elastomer Introducing Kirigami Structure <u>Kohsuke Matsumoto,</u> Mina Matsuda,Osamu Tsutsumi
16:00	2J26	Fine structure and electrochemical properties of a liquid crystalline perylene bisimide derivative bearing a crown ether ring

Tatsuaki Kajiwara,Shinobu Uemura,<u>Masahiro Funahashi</u>

Koki Sano, presiding

16:15	2J27	Modification of the surface of pseudo-polyrotaxane nanosheet with protein/enzyme <u>Tomoya Iizuka</u> ,Uenuma Shuntaro,Ito Kohzo
16:30	2J28	Combustion fabrication and levitation of ultralight carbon nanotube aerogels below air density <u>Tomonaga Ueno</u> ,Reo Yanagi,Airi Okuno,Toko Hattori

Fri. Jun 7

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

		Yosuke Okamura, presiding
9:30	3J03	Developing Molecular Descriptor of High Chemical Interpretability and Actual Demonstration with Anion Exchange Membrane Yin Kan Phua, Tsuyohiko Fujigaya, Koichiro Kato
9:45	3J04	Preparation and characteristics of ion-gel electrolytes using cationic cellulose <u>Masahiro Fujita</u> , Yutaro Hayashi, Yuko Takeoka, Masahiro Rikukawa
		Tomoya Higashihara, presiding
10:00	3J05	Development of Novel Semiconducting Polymers Based on Quinoxalines and Their Application to Organic Photovoltaic Cells <u>Hiroki Mori</u> ,Hiroki Yamane,Rin Kotani,Yasushi Nishihara
10:15	3J06	Charge carrier dynamics in photocatalysts based on organic semiconductor nanoparticles <u>Kazuki Kohzuki</u> ,Tsubasa Mikie,Itaru Osaka,Hideo Ohkita
10:30	3J07	Charge generation and recombination dynamics in fullerene- and nonfullerene-based polymer solar cells <u>Jihun Jeon</u> ,Hyung Do Kim,Hideo Ohkita
	:	Dongwook Kim, presiding
10:45	3J08	High density redox-targeting flow battery with potential-tuned polymer mediators Kenichi Oyaizu,Yuto Igarashi
11:00	3J09	Magnesium, zinc and aluminum secondary batteries based on layered electrolyte structure <u>Akira Watanabe</u> ,Takao Miwa
11:15	3J10	Highly conductive and durable piperidinium-based anion exchange membranes by super-acid promoted polycondensation Ahmed Mohamed Ahmed Mahmoud , Kenji Miyatake
11:30	3J11	Effect of semi-fluoroalkyl pendant length on the properties of poly(arylene piperidinium) anion conductive terpolymer membranes <u>Vikrant Yadav</u> ,Kenji Miyatake
	:	Kan Hatakeyama, presiding
12:45	3J13	Latent Porosity of a Tris(methoxyphenylisoxazolyl)benzene <u>Takehiro Hirao</u> ,Yudai Ono,Naomi Kawata,Takeharu Haino
13:00	3J14	CO2 selectivity enhancement of PDMS membrane by post

		molecular modification <u>Kosuke Taketsuna</u> ,Takeo Nakano,Shigenori Fujikawa
13:15	3J15	Direct growth of a MOF thin layer on a chemically-modified polydimethylsiloxane membranes Ryuki Moriyasu,Kosuke Taketsuna,Roman Selyanchyn,Xin Zheng,Shinichiro Noro,Shigenori Fujikawa
13:30	3J16	Plasmon-induced heating to enhance gas permeability of separation membranes <u>Yuka Hashimoto</u> ,Kodai Matsumoto,Shigenori Fujikawa
	1	Masahiro Fujita, presiding
13:45	3J17	Evaluation of carbon dioxide (CO2) transport behavior in poly(fluoroalkyl acrylate) and poly(fluoroalkyl methacrylate) Sinan FENG, Yucheng ZHANG, Roman SELYANCHYN, Shigenori FUJIKAWA, Shinichi MURATA, Atsushi TAKAHARA
14:00	3J18	Application of a one-handed helical poly(diphenylacetylene) derivatives to polymer-type chiral adsorbent Shota Sona, <u>Daisuke Hirose</u> , Katsuhiro Maeda
14:15	3J19	Self-assembly and carbonization of poly(4-vinyl pyridine)-b-poly(2,2,2-trifluoroethyl methacrylate) for fabrication of nitrogen-doped mesoporous carbons <u>Youngwon Kong</u> ,Yuta Miyamori,Haruna Sasaki,Hitomi Kawahara,Kan Hatakeyama,Teruaki Hayakawa,Yuta Nabae
14:30	3J20	Highly sensitive detection of heavy metal ions by using a polythiophene-printed paper-based chemical sensor Yui Sasaki,Xiaojun Lyu,Takayuki Kawashima,Yijing Zhang,Kohei Ohshiro,Kiyosumi Okabe,Kazuhiko Tsuchiya,Tsuyoshi Minami

Room K

Wed. Jun 5

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

Masaya Mitsuishi, presiding 1K05 10:00 Reversible formation of pseudo-crown ether structure in hydrogel driven by hydrophobic interaction Hongyao Zhou, Sakuya Nakagawa, Hideo Ando, Teppei Yamada 1K06 10:15 Effects of side chain length on hydrogel network by probe diffusion technique Keita Namba, Takuma Kureha 10:30 1K07 The changes in mechanical properties of hydrogels with different terminal functional groups of polymer side chain Yuka Wakayama, Takuma Kureha 10:45 1K08 Relation between fracture properties and cycle rank for networks of star prepolymer mixtures with different functionalities Yuichi Masubuchi Yuichi Masubuchi, presiding 11:00 1K09 AFM-nDMA for characterizing mechanical dynamics of epoxy resins at nanoscale

		Kim Hung Nguyen,Ken Nakajima
11:15	1K10	Strain- and load-dependent drive properties of photo-responsive nematic elastomers <u>Takuya Ohzono</u> , Emiko Koyama
11:30	1K11	Fatigue fracture of composite hydrogel with anisotropic lamellar bilayer structure <u>Most Laboni BEGUM</u> , Milena LAMA, Xueyu LI, Md. Anamul HAQUE, Jian Ping GONG
		Keiji Tanaka, presiding
12:45	1K13	Double network gel with nearly ideal first network structure <u>Naohiro Kashimura,</u> Yiran Cui,Xiang Li,Tasuku Nakajima,Tsutomu Indei,Jian Ping Gong
13:00	1K14	Theoretical study for hysteretic stress-strain behavior of highly-stretched double-network gels <u>Tsutomu Indei</u> ,Takahiro Matsuda,Tasuku Nakajima,Tatiana B. Kouznetsova,Stephen L. Craig,Jian Ping Gong
13:15	1K15	Double-network gel as a tool for structural analysis of polymer network Tasuku Nakajima,Nanami Sato,Jian Ping Gong
13:30	1K16	Effect on strain-induced crystallization of protein addition into natural rubbers Yui Tsuji, Takato Matsui, Hiroyasu Masunaga, Keiji Numata
		Tasuku Nakajima, presiding
13:45	1K17	Network Structure and physical properties of mixed gelatin gels <u>Shingo Matsukawa</u> ,Hazuku Takagi,Yumika Hayano,Lester Geonzon
14:00	1K18	Relationship between Fluctuation of Cross-linking Points and Rubbery Plateau Modulus in Rotaxane-type Elastomers <u>Osamu Urakawa</u> ,Seigo Hirai,Tadashi Inoue
14:15	1K19	Mechanical Properties of Epoxy Resin with One-Time Rearrangeable Network <u>Kazuma Kumamoto</u> ,Atsuomi Shundo,Satoru Yamamoto,Keiji Tanaka
		Takuma Kureha, presiding
14:30	1K20	Cross-linking Effect on Time-temperature Scaling for Creep Rupture Behavior of Epoxy Resins <u>Atsuomi Shundo</u> ,Mika Aoki,Keiji Tanaka
14:45	1K21	Solution conformation of polysaccharides from jasmine tea processing waste <u>Hai Huang</u> ,Wenqing Zhang,Ken Terao
15:00	1K22	Complex formation behavior of nanoparticles with collagen in aqueous solution <u>Ken Terao</u> ,Kota Sagawa,Nanaka Kamishima
		Ken Terao, presiding
15:15	1K23	Side chain effects on the polymer conformation in water by light scattering method Sakyo Hiraizumi , Takuma Kureha
15:30	1K24	Polymerization-induced vitrification and chemical reaction kinetics at the vicinity of vitrification Yasuhito Suzuki , Akikazu Matsumoto
15:45	1K25	Effect of Residual Water on Electro-Rheological Effect and

Electrical Properties of Nano-suspensions <u>Katsufumi Tanaka</u>,Shingo Shingo Yonezumi,Kawaguchi Masahiro,Xin Lin,Midori Takasaki,Haruki Kobayashi,Masami Nakano

Seigou Kawaguchi, presiding

16:00	1K26	Dynamic analysis of interface shape evolution during the drying process of polymer solution Reina Hagiwara,Kosuke Okeyoshi
16:15	1K27	Evaluation of lamellar crystal axis orientation in polyethylene by melting and large static shear deformation using a combination of MD and NEMD Mohammed Althaf Hussain, Takashi Yamamoto, Shigeru Yao
16:30	1K28	Chiral liquid crystalline water implied by dynamics of homoimmiscible water at the interface between water and chiral ice III Hiromasa Niinomi, Tomoya Yamazaki, Hiroki Nada, Tetsuya Hama, Akira Kouchi, Tomoya Oshikiri, Masaru Nakagawa, Yuki Kimura

Thu. Jun 6

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

	Shuntaro Uenuma, presiding						
9:30	2K03	Preparation and characterization of monodisperse polystyrene-based microspheres by RAFT precipitation polymerization <u>Liangzi Zhi</u> ,Naoki Haraguchi					
9:45	2K04	Synthesis and characterization of sulfonic acid-fuctionalized hollow polymer microsphere via precipitation polymerization MD RABIUL ALAM, Naoki Haraguchi					
		Naoki Haraguchi, presiding					
10:00	2K05	Synthesis of Nanocomposite microgels for stabilization of gelfoams <u>Yuichiro Nishizawa</u> ,Yuto Shimada,Kazuyoshi Murata,Haruka Minato,Daisuke Suzuki					
10:15	2K06	Changes in Amount and Composition of Pseudo-Polyrotaxane Nanosheets Formed with a-Cyclodextrin <u>Haruki Kazumi</u> ,Shuntaro Uenuma,Hideaki Yokoyama,Kohzo Ito					
10:30	2K07	Design of Supramolecular Liquid Crystals Enabled by Rotaxane Structure Formation <u>Gosuke Washino</u> ,Suzushi Nishimura,Atsushi Shishido					

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

Masashi Mizukami, presiding

10:45	2K08	Viscoelasticity of monolayers of stearic acid at the air-water <u>Taizo Mori</u> , Takeshi Hasegawa
11:00	2K09	Mechanism and Structural Requirements for Spontaneous Polymer Infiltration into MOF Nanopores <u>Haruaki Suzuki</u> ,Nobuhiko Hosono,Takashi Uemura

11:15	2K10	Aggregation States and Surface Wettability in Films of Copolymers Containing a Relatively High Content of Perfluorovinylether <u>Daisuke Kawaguchi, Mizuki Okuda, Junki Masuda, Ai</u> Kohata, Shintaro Nakagawa, Kimiaki Kashiwagi, Norihide Sugiyama, Takashi Okazoe, Midori Akiyama
11:30	2K11	Synthesis and Thin Film Properties of Highly Fluorinated Polynorbornenes <u>Makoto Uno</u> ,Takashi Okazoe,Daisuke Kawaguchi
	Т	Comohiro Konno, presiding
12:45	2K13	Local Heterogeneous Aggregation States of Epoxy Product at Adherend Interfaces <u>Satoru Yamamoto</u> ,Keiji Tanaka
13:00	2K14	Thermal Motion of Epoxy Segments by Fluorescence Spectroscopy <u>Honori Tajima</u> , Yuji Yasukochi, Tatsuki Abe, Keiji Tanaka
13:15	2K15	Pulling and Recovery Behaviors of Isolated Polystyrene Strings on Substrate <u>Yuma Morimitsu</u> ,Keiji Tanaka
13:30	2K16	Impact of Polystyrene Adsorption on Its Adhesion Properties <u>Reiki Eto,</u> Hidenobu Taneda,Tatsuki Abe,Satoru Yamamoto,Keiji Tanaka
	C	Osamu Urakawa, presiding
13:45	2K17	Fluidity of Polystyrene in Interfacial Region with Silicon Substrate Shintaro Saeki, Hidenobu Taneda, Keiji Tanaka
14:00	2K18	Conformational Anisotropy of Polystyrene Chains in Interfacial Region with Silica Substrate <u>Rinoa Fujii</u> ,Satoru Yamamoto,Keiji Tanaka
14:15	2K19	Two-dimensional Mapping of Local Conformation of Polymer Chains at the Solid Interface <u>Tatsuki Abe</u> ,Keiji Tanaka
	Γ	Daisuke Kawaguchi, presiding
14:30	2K20	Direct Observation of Thermal Motion of Isolated Poly(Styrene-r-Vinyl Catechol) Chains at Al2O3 Substrate <u>Shuji Morita,</u> Yuma Morimitsu,Shiho Tanizaki,Satoru Yamamoto,Kotaro Satoh,Keiji Tanaka
14:45	2K21	Enhanced Premelting of Ice in Contact with Hydrophilic Polymer Films Jon Pallbo, Hemette Sylvain, <u>Masashi Mizukami</u> , Kazue Kurihara
15:00	2K22	Surface properties of hydrogel microspheres evaluated by electrophoresis <u>Yuichiro Nishizawa</u> ,Ryuji Namioka,Daisuke Suzuki
	Y	uichiro Nishizawa, presiding
15:15	2K23	Concentrated PMMA Brush Layers Characterized by Surface Forces and Resonance Shear Measurement Yutaka Takahashi , Masashi Mizukami, Yoshinobu Tsujii, Kazue Kurihara
15:45	2K25	Colorimetric Assay of Tumor Markers Using Sugar-Protruding Double-Stranded DNA-Functionalized Gold Nanoparticles <u>Taichi Fukumori</u> ,Yudai Takahashi,Ren Ishiyama,Syuuhei Komatsu,Tohru Takarada,Mizuo Maeda,Akihiko Kikuchi,Yoshitsugu Akiyama
16:00	2K26	Self-assembly of rod-coil multiblock polyimides into flower-like

microparticles through precipitation polymerization Yuqian Chen,Kan Hatakeyama,Yuta Nabae,Teruaki Hayakawa

Teruaki Hayakawa, presiding

16:15	2K27	STM Observation of Dynamics of Poly(3-hexylthiophene) Monolayers at Solution/Graphite Interfaces <u>Daisuke Takajo</u> ,Hiroyasu Katsuno,Koichi Sudoh
16:30	2K28	Single-Chain Structure Analysis of Polymers by AFM Nanofishing from Nanopores <u>Yu Kono</u> ,Nobuhiko Hosono,Takashi Uemura
16:45	2K29	Development of an MRI methodology for polymeric films by exsitu solid-state NMR with needle-like ferromagnet Natsuki Kawabata, <u>Naoki Asakawa</u>

Fri. Jun 7

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

	,	Mikihito Takenaka, presiding
9:30	3K03	Unlocking Unconventional Mechanical Enhancements: Pseudo Polyrotaxane Nanosheets for Precision Polymer Orientation Cong Liu,Shuntaro Uenuma,Hideaki Yokoyama,Kohzo Ito
9:45	3K04	Small-angle neutron scattering method combined with heavy water contrast variation to understand dyeing silk fibers <u>Satoshi Koizumi</u> ,Nagai Haruka,Noda Yohei
10:00	3K05	In-situ observation of PET by depolymerization -Understanding of the higher-order structures for chemical recycling- <u>Haruka Nagai</u> ,Satoshi Koizumi,Yohei Noda,Ryuichirou Tamochi,Toshie Yaguchi
	\$	Satoshi Koizumi, presiding
10:15	3K06	Verification of the hierarchical structures of fibers from virgin and recycled polypropylene copolymers high-speed melt spun at different temperatures Mohammad A. Barique, Wataru Takarada, Takao Kameda, Takeshi
		Kikutani
10:30	3K07	Differences in internal structural changes between P(3HB) and its copolymers under stretching Masato Arakawa, Taizo Kabe, Tadahisa Iwata, Mikihito Takenaka
10:45	3K08	Crystal Phase Transition of 1,2-Difluoroethylene (VLF)-vinylidene fluoride (VDF) Copolymers and its VDF-Content Dependence Ryouichi Yano,Daisuke Ota,Kohji Tashiro,Hiroyasu Masunaga,Sono Sasaki
	1	Taizo Kabe, presiding
11:00	3K09	Solvent Casting-Induced Core-Shell Gyroid Structures of ABC Triblock Terpolymers <u>Yuta Miyamori</u> ,Yuta Nabae,Kan Hatakeyama,Teruaki Hayakawa
11:15	3K10	Investigating single-chain structure during the crystallization process by atomic force microscopy Dingrui Wang ,Xiaobin Liang,Ken Nakajima
11:30	3K11	Deformation mechanisms of polyethylene revealed by the visualization of molecular chain orientations

Shusuke Kanomi, Kai Chen, Tomohiro Miyata, Hiroshi Jinnai

Katsuhiro Yamamoto, presiding

	-	Katsumio ramamoto, presiding
12:45	3K13	Additional effects of paraffins with different branched structures on the supermolecular structure and mechanical properties of HDPE <u>Asae Ito</u> ,Akid Ropandi,Koichi Kono,Yusuke Hiejima,Koh-hei Nitta
13:00	3K14	Dissolution-crystal precipitation phase diagrams of pai- conjugated molecules in ionic liquids <u>Satoshi Watanabe</u> ,Rinsuke Nakayama,Kaho Tajiri,Shun Inouchi,Keigo Ono,Shotaro Hayashi,Masashi Kunitake
13:15	3K15	Covalent Introduction of Plasma-Treated Carbon Nanotubes into Polyimide <u>Seira Morimune-Moriya</u> ,Yuuki Iwamura,Haruto Fujikawa,Daisuke Ogawa,Keiji Nakamura
]	Ken Nakajima, presiding
13:30	3K16	Development of Carbon Nanotubes Reinforced Polyamide 66 Nanocomposites <u>XINDI HU</u> ,Seira Morimune-moriya
13:45	3K17	In-situ Polymerization of Resol Phenolic Resin Nanocomposites Based on Cellulose Nanofibers <u>Tsubasa Kondo</u> ,Seira Morimune-Moriya
14:00	3K18	The effect of silane coupling treatment on the properties of silicone rubber/nanodiamond nanocomposites Noah Ukai, Seira Morimune-Moriya
]	Hiroshi Jinnai, presiding
14:30	3K20	Observation of orientational order fluctuations in rod-like colloidal particles near the liquid crystal phase transition by coherent X-ray scattering Taiki Hoshino , Takahiro Mikami, Yoshiaki Honjo, Yoshifumi Amamoto, Kyosuke Ozaki, Toshiyuki Hiraki, Haruki Nishino, Yasumasa Joti, Takaki Hatsui, Takashi Kato
14:45	3K21	Formation of an Organized Structure and Improved Ion Conductivity of Sulfonated Polyimide Thin Films by Organic Solvent Used in Li-ion Battery <u>Kentaro Aoki</u> ,Suwansoontorn Athchaya,Mitsuo Hara,Nobuyuki Zettsu,Katsuhiro Yamamoto,Taborosi Attila,Michihisa Koyama,Shusaku Nagano,Yuki Nagao
15:00	3K22	Synthesis of Liquid-Crystalline Polyimide Designed Using Data Science <u>Hayato Maeda</u> ,Rika Marui,Erina Yoshida,Kan Hatakeyama,Yuta Nabae,Shiori Nakagawa,Meguya Ryu,Junko Morikawa,Stephen Wu,Yoh Noguchi,Yoshihiro Hayashi,Ryo Yoshida,Teruaki Hayakawa

Room L

Wed. Jun 5

Yoshin	ori	Takashima	ι, 1	or	esiding			
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10:00	1L05	Development and LCA of UV-cured polymers derived from non- edible phenolic compound <u>Shinji Kanehashi</u> ,Kan Kato,Kenji Ogino
10:15	1L06	Decomposition of plastics by supercritical water: in situ observations by small-angle neutron scattering and elucidation of its physicochemical mechanisms Motoki Shibata, Yohei Nakanishi, Jun Abe, Hiroshi Arima-Osonoi, Hiroki Iwase, Mitsuhiro Shibayama, Ryuhei Motokawa, Takayuki Kumada, Shin-ichi Takata, Katsuhiro Yamamoto, Mikihito Takenaka, Tsukasa Miyazaki
10:30	1L07	Effect of Nano-MgO on Vulcanization of Natural Rubber <u>Seiichi Kawahara,</u> Huyen Thanh Luu,Masaki Yamano,Yoshimasa Yamamoto
10:45	1L08	Non-close-packed arrangement of colloidal particles using particle softness <u>Yuma Sasaki</u> ,Seina Hiroshige,Masaya Takizawa,Yuichiro Nishizawa,Takayuki Uchihashi,Haruka Minato,Daisuke Suzuki
		Shinji Kanehashi, presiding
11:00	1L09	Identification and classification of polymeric nanoparticles using peptide sensors <u>Shion Hasegawa,</u> Toshiki Sawada,Yuzo Kitazawa,Takuya Kaneda,Takeshi Serizawa
11:15	1L10	Effect of non-laminar flow on plastic recycling characteristics Shigeru Yao, Patchiya Phantong, Nobuhisa Takayama, Hideaki Obuchi
11:30	1L11	Higher-order structural analysis and creep properties of recycled polypropylene <u>Ko Hashimoto</u> ,Yutaka Kobayashi,Shotaro Nishitsuji,Hisao Matsuno,Hiroshi Ito
		Yukiko Enomoto, presiding
12:45	1L13	Micropatterned microplastic generation through degradation of polymeric films with micropattern structures Haruki Uchida , Wakako Uchiyama, Erika Kurita, Masayuki Kirihara, Yohei Kotsuchibashi
13:00	1L14	Evaluation of cellular responses to decomposed/degraded LDPE nano/microplastics <u>Naoto Washihira</u> ,Suphatra Hiranpinyophat,Mako Kobayashi,Sho Fuji,Tadao Tanabe,Tsuyoshi Kimura,Masaya Yamamoto
13:15	1L15	The chemistry of 3-methylene phthalide as a recyclable vinyl monomer: Effects of substitution of aromatic ring on the polymer solubility and recyclability Yota Chiba, Yasuhiro Kohsaka
13:30	1L16	Synthesis of Biodegradable Polyester from Methacrylates <u>Shinnosuke Nishimura</u> ,Ryosuke Kanai,Tomoyuki Koga
13:45	1L17	Synthesis of Novel Polyesters from Cellulose-Derived Epoxide and Cyclic Anhydrides <u>Hiroto Ayakawa,</u> Tianle Gao,Feng Li,Takuya Yamamoto,Takuya Isono,Toshifumi Satoh
		Shinnosuke Nishimura, presiding
14:00	1L18	Stereocomplex of polylactide copolymer bearing gallic acid at both chain end

14:15	1L19ILY	Enhancing Polyester Degradability via Tailored Backbone Modifications <u>Tomohiro Kubo</u>
14:45	1L21	Synthesis of divanillic acid-derived biodegradable polyesters with phenolic hydroxyl group and mechanical properties of their films <u>Yoshihiro Minegishi</u> , Yukiko Enomoto, Tadahisa Iwata
15:00	1L22	Investigating Marine Biodegradability through BOD: The Effects of Poly(L-lactic acid)'s Molecular Weight <u>Jin Ho Seok</u> ,Tadahisa Iwata
	To	omohiro Kubo, presiding
15:15	1L23	Development of biodegradation trigger for biodegradable plastics by chemical surface modification and introduction of antimicrobial cations <u>Jobu Tateiwa</u> ,Yu-i Hsu,Hiroshi Uyama,Tadahisa Iwata
15:30	1L24	Investigation of Thermal Cross-linking Mechanism and Evaluation of Properties Of Microbial Polyesters with Unsaturated Bonds in Their Side Chains Sumire Ogura, Jobu Tateiwa, Taizo Kabe, Yuki Miyahara, Takeharu Tsuge, Tadahisa Iwata
15:45	1L25	Evaluation of catalytic activity of phosphate ceramics for biodegradable polymers (I) -Comparison of catalytic ability of various hydroxyapatite- <u>Misaki Okamura</u> , Masahiro Fujita, Yuko Takeoka, Masahiro Rikukawa
16:00	1L26	Hydrolyzable Aliphatic Polycarbonates by Amide Group <u>Kazuki Fukushima</u> ,Rongjian Lang,So Nakai,Masaru Tanaka,Takashi Kato
16:15	1L27	Study of the effect of PEGylation on the degradation behavior of enzyme embedded polylactic acid <u>Qiuyuan Huang</u> ,Kimura Satoshi,Iwata Tadahisa

Thu. Jun 6

E. POLYMERS AND ENVIRONMENT

Daisuke Aoki, presiding

9:30	2L03	Synthesis of cellulose ester derivatives having 4- (chloromethyl)benzoyl groups and their application to functionalization <u>Yuma Ito</u> ,Tsuyoshi Taniguchi,Shoji Yoshioka,Shafiqur Rahman,Shunsuke Taka,Kuo Hong Wong,Asami Mashio,Hiroshi Hasegawa,Tatsuya Nishimura,Katsuhiro Maeda
9:45	2L04	Differential Effects of Aliphatic and Aromatic Fatty Side Chains in Cellulose Modification <u>Lease Jacqueline</u> , Yoshito Andou
10:00	2L05	Synthesis, characterization and seawater biodegradability of paramylon mix ester derivatives with different DS <u>Ruiqi Li</u> ,Jin Ho Seok,Tadahisa Iwata
10:15	2L06ILY	Development of Oligosaccharide-derived Biobased Polymer Materials <u>Takuya Isono</u>

Takuya Isono, presiding

10:45	2L08	Development of environmentally-friendly carbonate resin using resveratrol Iku Yamashita,Tatsuki Watanabe, <u>Kozo Matsumoto</u>
11:00	2L09	Synthesis of self-immolative bio-based polymers derived from vanillyl alcohol and their degradation behavior Yushi Miki, Yukiko Enomoto, Tadahisa Iwata
11:15	2L10	Functionalization of sugar-based polycarbonate by copolymerization and decomposition behavior in aqueous ammonia <u>Kazuaki Rikiyama</u> , Takayuki Yoshida, Tatsuo Taniguchi, Shotaro Nishitsuji, Daisuke Aoki
11:30	2L11	Preparation of sulfur-containing polymers using surplus sulfur as raw material <u>Yuichiro Kobayashi</u> ,Shun Hashimoto,Ryunosuke Kamioka,Ryuto Nishimura,Hiroyasu Yamaguchi
		Yuichiro Kobayashi, presiding
12:45	2L13	Synthesis and biodegradability of bio-based poly(ester-thioether)s by click reaction Ryota Imamura , Akinori Takasu
13:00	2L14	Synthesis and Characterization of Poly(ethylene succinate) based Block Copolymers Containing Poly(amino acid) <u>Sumito Kumagai,</u> Yasumasa Takenaka,Senri Hayashi,Atsushi Katsuragi,Motosuke Imada,Kaoko Sato,Hideki Abe,Noriyuki Asakura
13:15	2L15	The thermal properties of the disyndiotactic polycrotonates prepared by the group-transfer polymerization Yasumasa Takenaka , Motosuke Imada, Hideki Abe
13:30	2L16	Synthesis of end-functionalized polypropylenes and their adhesive property with carbon fibers for the development of high-performance thermoplastic CFRP <u>Katsutaka Kai</u> , Michio Urushisaki, Toshikazu Sakaguchi, Tamostu Hashimoto, Atsushi Takamura, Daisuke Sasaki
13:45	2L17	Seawater degradability of aliphatic polyesters with C4-C12 dicarboxylic acids <u>Tomoka Shuto</u> , Yuushou Nakayama, Ryo Tanaka, Takeshi Shiono, Shodai Hino, Norioki Kawasaki, Naoko Yamano, Atsuyoshi Nakayama
		Yasumasa Takenaka, presiding
14:00	2L18	Study on Biodegradation Behavior of Poly(3-hydroxybutyrate), Poly(e-caprolactone), and Polyamide 4 with Seawater <u>Atsuyoshi Nakayama</u> ,Norioki Kawasaki,Shodai Hino,Naoko Yamano,Hideo Okamura
14:15	2L19	Evaluation of bond dissociation behavior of anthracene photo dimers containing imino group aiming for the application to degradable polymers Fumiki Sakashita, Eriko Sato
14:30	2L20	Machine learning approach for design and understanding of biodegradable polymers <u>Yoshifumi Amamoto</u> ,Ken Kojio,Atsushi Takahara,Kei Terayama,Jun Kikuchi
14:45	2L21	Effect of Water Pressure on Nanostructural Changes in Polycaprolactone Thin Films Treated by Seawater Immersion

<u>Hiroto Osakaki</u>,Keito Shimakawa,Ryu Miyajima,Mamiko Takigawa,Hiroyasu Masunaga,An Yingjun,Atsushi Takahara,Sono Sasaki

Eriko Sato, presiding

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15:00	2L22	Marine PHBH-degrading bacteria and their degrading enzymes <u>Tomohiro Hiraishi</u> ,Senri Hayashi,Momoko Kitamura,Noriyuki Asakura,Hideki Abe
15:15	2L23	Visualization of Marine Degradation Process of Biodegradable Polyester by Raman Mapping Analysis Masahiro Hatayama, <u>Harumi Sato</u>
15:30	2L24	Preparation and functionality of microbial-polyester porous material <u>taizo kabe</u> ,rintaro suzuki,tadahisa iwata
15:45	2L25	Effect of pentaerythritol as nucleation agent on PHA crystallization <u>Masahiro Fujita</u> ,Noboru Ohta,Kiyoshi Yagi,Hideki Abe
	Ke	n Kojio, presiding
16:00	2L26	Crystallization enhancement effect of microbially produced lactate-based copolyester on poly(lactate) <u>Yusuke Imai</u> , Yuichi Tominaga, Shinji Tanaka, Shinji Tanaka, Masaru Yoshida, Sho Furutate, Toshihiko Kanda, Shunsuke Sato, Sangho Koh, Seiichi Taguchi
16:15	2L27	Development of Oil/Water Separation Materials by Hydrophobization of Polysaccharide Polyion Complexes <u>Misaki Hayashi</u> ,Takuya Sagawa,Mineo Hashizume
16:30	2L28	Gas barrier properties and their mechanisms in alginic acid and alginates mono-material membranes Hiroki Takachi, Takahiro Hori, Sky Amakawa, <u>Kazukiyo Nagai</u>
16:45	2L29	UV cut transparent films with moisture barrier nature consisting of clay mineral/polyvinyl alcohol/lignin Kazuhiro Shikinaka , Asami Suzuki, Yuichiro Otsuka

Fri. Jun 7

E. POLYMERS AND ENVIRONMENT

Kohei Iritani, presiding

9:30	3L03	Enhancement of strength and toughness of movable cross-linking network materials by incorporation of poly(ε-caprolactone) <u>Sota Nakagawa</u> , Akihide Sugawara, Yoshinori Takashima, Junsu Park, Ryohei Ikura, Hiroshi Uyama
9:45	3L04	Strain-hardening and toughening of polyrotaxane glass <u>Kazuaki Kato</u> ,Kohzo Ito,Taiki Hoshino
10:00	3L05	Bond-exchange properties of vitrimer resin with low inclusion ratio polyrotaxane Shota Ando,Lisa Watakabe,Masaki Hirano,Hideaki Yokoyama,Kohzo Ito
10:15	3L06	Toughening of polymer nanoparticle-based elastomers <u>Yuma Sasaki</u> , Yuichiro Nishizawa, Takuma Kureha, Kazuya Uenishi, Kazuko Nakazono, Toshikazu Takata, Daisuke Suzuki

	:	Kazuaki Kato, presiding
10:30	3L07	Effect of PEG addition on various properties of biobased polyimides containing isosorbide moieties. Yoshiyuki Tsurusaki, Ririka Sawada, Haonan Liu, Shinji Ando
10:45	3L08	Quantitative Assessment of Humidity Dependence of GHz Dielectric Properties and Moisture Absorption in Bio-based Polyimides Using Variable Humidity Infrared Spectroscopy <u>Ririka Sawada</u> , Haonan Liu, Shinji Ando
11:00	3L09	Mechanical Properties of Silicone Composite Rubber Utilizing Glycol-Lignin Derivative as a Filler <u>Ryoma Amanuma, Ayumi Kobayashi, Kohei Iritani, Thi Thi</u> Nge, Tatsuhiko Yamada, Takashi Yamashita
	•	Yuichiro Nishizawa, presiding
12:45	3L13	Mechanical Property Control of Green Alga/Polymer Composites Affected by Extraction of Fats <u>Kohei Iritani</u> ,Yuki Emura,Ayumi Kobayashi,Takashi Yamashita
13:00	3L14	Preparation and physical properties of porous elastic PHBH fibers with P(3HB) as an additive Kohei Toyosaki , Taizo Kabe, Tadahisa Iwata
13:15	3L15	High toughness blends of poly(lactic acid) and elastomers with unsaturated bonds by using dynamic vulcanization Shunya Kubo , Akihide Sugawara, Yu-I Hsu, Hiroshi Uyama
13:30	3L16	High-performance stretched poly(lactic acid) films using rosin-modified phenolic resin <u>Maoko Hayashi,</u> Yu-I Hsu,Akihide Sugawara,Takashi Konishi,Hiroshi Uyama
		Akihide Sugawara, presiding
13:45	3L17	Structural Change of PBS/PBSA Blend Films during Tearing <u>Keito Shimakawa</u> , Hiroto Osakaki, Ryu Miyazima, Hiroyasu Masunaga, Sono Sasaki
14:00	3L18	Environmental Degradation Behaviors of Poly(ether-block-amide) Multi-block Copolymers <u>Yingjun AN</u> ,Adchara PADERMSHOKE,Thinh Van NGUYEN,Hiroyasu MASUNAGA,Sono SASAKI,Atsushi TAKAHARA
14:15	3L19	Crystallization Behavior of Novel Bio-Based Polyesters Synthesized from Plant Oils and Saccharide Compounds Aki Nishiyama, <u>Hiroki Takeshita</u> , Takumitsu Kida, Katsuhisa Tokumitsu, Kotohiro Nomura
14:30	3L20	Climeworks - removing CO2 from the Earth's atmosphere through direct air capture (DAC) <u>Tomohide Yoshida</u>

Room M

Wed. Jun 5

E. POLYMERS AND ENVIRONMENT

Tomoyasu Hirai, presiding

12:45	1M13	Characterization of composite materials containing indible biomasses resources <u>Hiroshi Wada</u>
13:00	1M14	Evaluation of Adhesive Performance and Recyclability in Elastomers with Movable Cross-Links <u>Sho Kosaba,</u> Ryohei Ikura,Kenji Yamaoka,Takayuki Arai,Yoshinori Takashima
13:15	1M15	Depolymerization process of nylon 6 under low-energy conditions Yuka Matsumoto, Naoto Aoyagi, Teruo Kamura
	1	Hiroshi Wada, presiding
13:30	1M16	Depolymerization of super engineering plastics to form bisphenols and their analogues <u>Yasunori Minami</u> ,Tomoo Tsuyuki,Rena Honobe,Yuuki Inagaki,Kazuhiko Sato,Yumiko Nakajima,Masaru Yoshida
13:45	1M17	Preparation of membranes with high gas permeability and high CO2 selectivity based on spray-coating method. <u>Yakumo Kinoshita</u> ,yoshinobu Nakamura,syuuji Fujii,Tomoyasu Hirai
14:00	1M18	Novel Plastic Re-extrusion Process for Regeneration of Mechanical Properties of Low-density Polyethylene Patchiya Phanthong , Shigeru Yao
	1	E. POLYMERS AND ENVIRONMENT "English Session"
	3	Yu-I Hsu, presiding
14:15	1M19	Selecting Bacterial Strains and Establishing Detection Methods of Monomers toward the Improvement of the Biochemical Monomer Recycling System <u>Pin-Fang Li</u> , Ya-Yen Chang, Jane Wang
14:15 14:30	1M19 1M20	Monomers toward the Improvement of the Biochemical Monomer Recycling System
		Monomers toward the Improvement of the Biochemical Monomer Recycling System <u>Pin-Fang Li</u> ,Ya-Yen Chang,Jane Wang Natural Cellulose Microfibers as Adsorbants for Waste Water Treatment <u>Olaf Karthaus</u> ,Konoha Ueda,Shinon Takahashi,Yoshihiko
14:30	1M20	Monomers toward the Improvement of the Biochemical Monomer Recycling System Pin-Fang Li, Ya-Yen Chang, Jane Wang Natural Cellulose Microfibers as Adsorbants for Waste Water Treatment Olaf Karthaus, Konoha Ueda, Shinon Takahashi, Yoshihiko Omura, Chiharu Hayashida, Hiroshi Kunimori Extraction of Fibers from Hagfish Exudate and Characteristics of These Fibers
14:30 14:45	1M20 1M21	Monomers toward the Improvement of the Biochemical Monomer Recycling System Pin-Fang Li, Ya-Yen Chang, Jane Wang Natural Cellulose Microfibers as Adsorbants for Waste Water Treatment Olaf Karthaus, Konoha Ueda, Shinon Takahashi, Yoshihiko Omura, Chiharu Hayashida, Hiroshi Kunimori Extraction of Fibers from Hagfish Exudate and Characteristics of These Fibers Shunsuke Kondo, Aoi Ichinoseki, Koki Suzuki, Jin Gong Mechanism of plasticizing effect of block copolyester for polylactide
14:30 14:45 15:00	1M20 1M21 1M22 1M23	Monomers toward the Improvement of the Biochemical Monomer Recycling System Pin-Fang Li,Ya-Yen Chang,Jane Wang Natural Cellulose Microfibers as Adsorbants for Waste Water Treatment Olaf Karthaus,Konoha Ueda,Shinon Takahashi,Yoshihiko Omura,Chiharu Hayashida,Hiroshi Kunimori Extraction of Fibers from Hagfish Exudate and Characteristics of These Fibers Shunsuke Kondo,Aoi Ichinoseki,Koki Suzuki,Jin Gong Mechanism of plasticizing effect of block copolyester for polylactide Neha Sharma,Tsuyoshi Koga,Shigeru Deguchi,Ikuo Taniguchi Photooxidation-induced Conformational Changes and Degradation Behaviors 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
14:30 14:45 15:00	1M20 1M21 1M22 1M23	Monomers toward the Improvement of the Biochemical Monomer Recycling System Pin-Fang Li, Ya-Yen Chang, Jane Wang Natural Cellulose Microfibers as Adsorbants for Waste Water Treatment Olaf Karthaus, Konoha Ueda, Shinon Takahashi, Yoshihiko Omura, Chiharu Hayashida, Hiroshi Kunimori Extraction of Fibers from Hagfish Exudate and Characteristics of These Fibers Shunsuke Kondo, Aoi Ichinoseki, Koki Suzuki, Jin Gong Mechanism of plasticizing effect of block copolyester for polylactide Neha Sharma, Tsuyoshi Koga, Shigeru Deguchi, Ikuo Taniguchi Photooxidation-induced Conformational Changes and Degradation Behaviors 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

16:15	1M27	Exploring Enzymatic Reactions of Tough Poly(ester)s-Poly(urethane) with Movable Crosslinks: Degradation, Reinforcement, Recycling and Upcycling <u>Jiaxiong Liu</u> ,Ryohei Ikura,Kenji Yamaoka,Akihide Sugawara,Yuya Takahashi,Bunsho Kure,Naomi Takenaka,Junsu Park,Hiroshi Uyama,Yoshinori Takashima
16:30	1M28	Surface Oxidation of Porous Poly(lactic acid) (PLA) Microspheres via Light-activated Chlorine Dioxide Radicals. <u>Hasinah binti Mohamed Rafiq</u> ,Yu-I Hsu,Hiroshi Uyama