Mon. May 19

Initiativ	ves of the Industrial Sector on Carbon and Resource Circulation
Is	saki Takeharu, presiding
1A01IL	Initiative for the circular economy <u>Takayuki Nagai</u>
S	himizu Fumihiko, presiding
1A04IL	Microwave process approach to chemical recycling <u>Keiji Kitani</u>
0	gawa Shuichiro, presiding
1A07IL	Study and Development on DFM-CCU process <u>Koji Kuramoto</u>
]	Messages from the Advanced Chemical Industry
K	atsuragi Toshiya, presiding
1A20IL	Ambidexterity and new business/technology development <u>Shunsuke Yokotsuka</u>
Y	oshida Youichi, presiding
1A23IL	Efforts Toward GX and Carbon Neutrality Through Innovation in MeOH Production Technology <u>Toshihiro Nomura</u>
U	metani Hiroyuki, presiding
1A25IL	Kuraray's innovation <u>Toshihiro Omatsu</u>
	IAO1IL S 1AO4IL 1AO7IL IAO7IL IA20IL Y 1A23IL

Tue. May 20

INVITED LECTURES

Kamigaito Masami, presiding

9:00	2AY1IL	Precise Synthesis and Functions of Dense Triazole Polymers <u>Yuri Kamon</u> ,Masaki Nakahata,Akihito Hashidzume
9:20	2AY2IL	Polymer Synthesis and Function Design Based on Radical Polymerization of Vinylboronic Acid Derivatives and Side-Chain Replacement <u>Tsuyoshi Nishikawa</u>
9:40	2AY3IL	Development of Proton Transfer Anionic Polymerization (PTAP) with C-H Bond as Dormant Species <u>Mineto Uchiyama</u>
	H	Iayakawa Teruaki, presiding
10:00	2AY4IL	Photocontrol of polymer structure and properties by thermally bistable molecular photoswitches <u>Keiichi Imato</u>

10:20 2AY5IL Precision Mineralization Utilizing Polymer Hydrogel Template

Takayuki Nonoyama, Ryuji Kiyama, Maradhana Agung Marsudi, Shinji
Noguchi, Jian Ping Gong10:402AY6ILFuctionalization of linear polysiloxanes through ionization and high-
density integration
Mitsuo Hara

Wed. May 21

INVITED LECTURES

Tanaka Keiji, presiding

9:00	3AY1IL	Raman Spectroscopic Analysis of Mechanical properties and Structural Changes of Polyolefin Materials <u>Takumitsu Kida</u>
9:20	3AY2IL	Polymerization-induced microphase separation <u>Rintaro Takahashi</u>
9:40	3AY3IL	Polymer structural chemistry by dynamic light scattering <u>Takashi Hiroi</u>
	Fı	urukawa Hidemitsu, presiding
10:00	3AY4IL	Development of Sim2Real Materials Informatics Fundamentals in Polymeric Materials <u>Yoshihiro Hayashi</u>
10:20	3AY5IL	Nanoporous Crystals for Microstructural Recognition and Separation of Polymers <u>Nobuhiko Hosono</u>
10:40	3AY6IL	Construction of bio-functional supramolecules based on peptide amphiphiles <u>Rie Wakabayashi</u>

Fri. May 23

AWARD LECTURES

Serizawa Takeshi, presiding

9:30 5A03AL Photooxidative degradation and fragmentation behaviors of oriented isotactic polypropylene <u>Yingjun AN</u>,Tomoko KAJIWARA,Adchara PADERMSHOKE,Thinh Van NGUYEN,Sinan FENG,Hiroyasu MASUNAGA,Yutaka KOBAYASHI,Hiroshi ITO,Sono SASAKI,Atsuhiko Isobe,Atsushi TAKAHARA

Yasuda Takuma, presiding

10:005A05ALPost-functionalization of alternating π-conjugated copolymers
containing fluorene moieties via anodic chlorination using AlCl3

Tomoyuki Kurioka,Ikuyoshi Tomita,Shinsuke Inagi

Ikeda Masato, presiding

10:30 5A07AL Morphology of polymer chains spun onto solid substrates <u>Yuma Morimitsu</u>

Ouchi Makoto, presiding

11:00 5A09AL Synthesis of Degradable Polymers via 1,5-Shift Radical Isomerization Polymerization of Vinyl Ether Derivatives with a Cleavable Bond <u>Mineto Uchiyama</u>

Nomura Kotohiro, presiding

13:00 5A12AL Synthesis, Structure Control and Functions of Coordination Polymers Containing Conjugated Transition Metal Complex Moieties <u>Fumio Sanda</u>

Nitta Koh-hei, presiding

13:45 5A15AL Development of Efficient Multi-Chain Coarse-Grained Models of Polymers Yuichi Masubuchi

Sada Kazuki, presiding

14:30 5A18AL Development of methods for controlling biological functions using synthetic peptides Kazunori Matsuura

Ishida Yasuhiro, presiding

15:15 5A21AL Secondary Structure Control and Functionalization of Synthetic Polymers by Ladderization Tomoyuki Ikai

Sada Kazuki, presiding

16:00 5A24AL Development of Science on the Adsorption of Polymer Microgels at Fluid Interfaces Using Precision Particle Synthesis Daisuke Suzuki

Room B

Mon. May 19

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Uchiyama Mineto, presiding

9:00	1B01	Living Anionic Addition Reaction of 1,1-Diphenylethylene Derivative Possessing Fluoro Group <u>Muhammad Rafi Yusman</u> ,Tomohiko Nishijima,Chihiro Homma,Takashi Ishizone
9:15	1B02	Precise and facile control of monomer sequence via living anionic addition reaction of 1,1-diphenylethylene derivatives <u>Tomohiko Nishijima</u> ,Chihiro Homma,Takashi Ishizone
9:30	1B03	Anionic polymerization of N-tert-butyl-N-(4-vinylbenzylidene)amine in hydrocarbon solvent <u>Kohei Takimoto</u> ,Rinya Kawashima,Chihiro Homma,Takashi Ishizone
	Li	Feng, presiding
9:45	1B04	Dual Control of Molecular Weight and Tacticity in Proton Transfer Anionic Polymerization of Various Acrylic Monomers with C-H Bonds as Dormant Species <u>Katsutoshi SAGAWA</u> ,Hironobu WATANABE,Mineto UCHIYAMA,Masami KAMIGAITO
10:00	1B05	Synthesis of New Alkyl Sorbate Monomers with Bulky Substituents and Anionic Polymerization with Base Catalyst <u>Chiya Nakashima</u> ,Yuto Ide,Akinori Takasu

Homma Chihiro, presiding

15:00	1B20	Ring-opening polymerization of 1,3-dioxa-2-silacycloalkanes: Living polymerization and monomer regeneration by depolymerization <u>Ikuto Tanaka</u> ,Sadahito Aoshima,Arihiro Kanazawa
15:15	1B21	Cationic Copolymerization of Spiroorthoesters and Vinyl Ethers for Alternating Sequence Control <u>Kota Yamamoto</u> ,Sadahito Aoshima,Arihiro Kanazawa
15:30	1B22	Cationic Terpolymerization of Styrene Derivatives, Oxiranes, and Aromatic Aldehydes: Precise Synthesis of ABC-type Periodic Sequence- Controlled Degradable Polymers <u>Yuto Eguchi</u> ,Sadahito Aoshima,Arihiro Kanazawa
15:45	1B23	Cationic polymerization of styrene derivatives using diaryliodonium salts as organic Lewis acid catalysts: Investigation of the photoinduced-acceleration mechanism <u>Yutaka Yokawa</u> ,Sadahito Aoshima,Arihiro Kanazawa

Tue. May 20

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Watanabe Hironobu, presiding

9:00	2B01	Cationic terpolymerization of vinyl ethers, styrenes, and aldehydes : Synthesis of polymers with various sequences bearing two kinds of acidically degradable structures <u>Kaoru Sugai</u> ,Sadahito Aoshima,Arihiro Kanazawa
9:15	2B02	Cationic Ring-Opening Copolymerization of Cyclic Esters and Cyclic Hemiacetal Esters: Effects of Difference in the Number of Ring Members of Cyclic Hemiacetal Esters <u>Manami Banno</u> ,Sadahito Aoshima,Arihiro Kanazawa
9:30	2B03	Cationic Alternating Copolymerization of Cationically Nonhomopolymerizable <i>N</i> -Vinyl Monomer and Cyclic Hemiacetal Ester <u>Momo Okada</u> ,Arihiro Kanazawa
		Isono Takuya, presiding
9:45	2B04	Photoinduced Cationic RAFT Polymerization of Vinyl Ethers by Various Non-Ionic Photoredox Catalysts <u>Akiho SHIMADA</u> ,Hironobu WATANABE,Mineto UCHIYAMA,Masami KAMIGAITO
10:00	2B05	Ring-opening polymerization of 5-cyclic carbonate derived from myo- inositol with linear alkyl group <u>Yuto Oshima</u> ,Hayato Tnanno,Shota Hiraga,Osamu Haba,Tatsuro Toda,Hisanari Yoneda
		Matsuoka Shin-ichi, presiding
15:00	2B20	Modulation of Cyclic Monomer Reactivity by Fluorine-Incorporation for Efficient Self-Switchable Block Copolymer Synthesis via Alternating Copolymerization <u>Chun-Yao Ke</u> ,Takuya Isono,Feng Li,Takuya Yamamoto,Guey-Sheng Liou,Toshifumi Satoh
15:15	2B21	Polymer Synthesis and Hybridization of Polyurea and Phenolic Resin from Diphenyl Carbonate through Phosgene-free Method <u>Fumiyuki Toshimitsu</u> ,Yoshio Furusho,Yuji Kosugi,Takeshi Endo
15:30	2B22	Synthesis and degradation of polyesters from coumarin derivatives using photo and click reaction <u>Miyuki Oshimura,</u> Hikari Saito,Tomohiro Hirano

15:45 2B23 Synthesis of Poly(esterimide)s Containing Double-Decker Silsesquioxane for Low Dielectric Constants <u>Natsuko Sashi</u>,Erina Yoshida,Hayato Maeda,Kan Hatakeyama,Yuta Nabae,Ririka Sawada,Shinji Ando,Teruaki Hayakawa

Wed. May 21

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Hirano Tomohiro, presiding

9:00	3B01	Synthesis and Dielectric Properties of Poly(phenylene ether) with Bulky Substituents on Side Chains <u>Kentaro Sone</u> ,Hayato Maeda,Kan Hatakeyama,Yuta Nabae,Teruaki Hayakawa
9:15	3B02	Synthesis of Negative-Type Photosensitive Polyimides Using 2- Hydroxyethyl Methacrylate as a Crosslinking Agent and its Dielectric Properties. <u>Koki Matsuo</u> ,Hayato Maeda,Riku Takahashi,Makiko Irie,Kazuaki Ebisawa,Kan Hatakeyama,Yuta Nabae,Teruaki Hayakawa
9:30	3B03	Synthesis of Silicon-Containing Hydrocarbon-Based Polymers via Polyaddition of Dihydrosilanes and Diynes <u>Yuka Azuma</u> ,Riku Takahashi,Kan Hatakeyama,Yuta Nabae,Teruaki Hayakawa
	N	ishikawa Tsuyoshi, presiding
9:45	3B04	Selective isomerization polymerization of α-olefins with siloxy groups by Pd catalysts <u>Rintaro Hamada</u> ,Daisuke Takeuchi
10:00	3B05	Alternating Cyclocopolymerization of N-allyl-N-tosylacrylamide and α- olefins catalyzed by palladium complexes <u>Kyoji Oshima,</u> Daisuke Takeuchi
	Т	akeuchi Daisuke, presiding
15:00	3B20	Coordination polymerization of borylacetylene derivatives: Monomer design and post-polymerization transformation based on unique properties of boron <u>Sota Ueyama</u> ,Tsuyoshi Nishikawa,Makoto Ouchi
15:15	3B21	Synthesis and properties of fluorene-containing polycyclopentenes via ring-opening metathesis polymerization. <u>Shota Kihara,</u> Akane Nakajima,Yoshiya Ota,Shin-ichi Matsuoka
15:30	3B22	Synthesis of Alternating Copolymers of Indene with Acrylic Acid Derivatives via Radical Copolymerization and Pendant Transformation and Evaluation of the Physical Properties <u>Yuma Hanaura</u> ,Aoto Ishikawa,Makoto Ouchi
15:45	3B23	Synthesis of Acrylamide Alternating Copolymers Carrying Amine Pendant and the Sequence-Specific Properties <u>Seungchul Kwak</u> ,Makoto Ouchi

Thu. May 22

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Kubo Tomohiro, presiding

9:00	4B01	Analysis of side reaction in surface-initiated atom transfer polymerization under high-pressure condition Yuki Seike, <u>Yuji Kinose</u> ,Yoshinobu Tsujii
9:15	4B02	Synthesis of Itaconic Acid-Derived Poly(<i>N</i> -vinylpyrrolidone) Derivatives and Functionalization via Introduction of Functional Groups in the Side Chains <u>Shione KURITA</u> ,Hironobu WATANABE,Mineto UCHIYAMA,Masami KAMIGAITO
9:30	4B03	Radical Polymeirzation of Thioamides: Synthesis of Polymers with Tunable Degradability and Special Structures via Design of Pendant Groups <u>Toshiki IIDA</u> ,Hironobu WATANABE,Mineto UCHIYAMA,Masami KAMIGAITO
		Kinose Yuji, presiding
9:45	4B04	Radical Polymerization of Formaldehyde in the Presence of Metal Salts: Synthesis and Properties of Copolymers with Oxygen Atoms in the Backbone <u>Ryogo MURAKAMI</u> ,Hironobu WATANABE,Mineto UCHIYAMA,Masami
10:00	4B05	KAMIGAITO Radical polymerization of exo-methylene six-membered cyclic monomers containing nitrogen atom introducing various substituents <u>Sota Takashima</u> ,Tomohiro Kubo,Kotaro Satoh
		Kanazawa Arihiro, presiding
15:00	4B20	Degradation and Depolymerization of Polymers Triggered by Radical Generation via HAT Reaction <u>Masaya Kinugawa,</u> Makoto Ouchi
15:15	4B21	Monomer Design for Synthesis of Methacrylate-Styrene Alternating Copolymers Carrying Functional Groups and the Sequence Properties <u>Haruto Nitanda</u> ,Makoto Ouchi
15:30	4B22	Precision Synthesis of Poly((meth)allyl Alcohol) by One-Pot Cascade Process from Controlled Radical Polymerization to Reduction of Pendant Groups Using (PNNP)Mt Complexes <u>Ryoga HIRATA</u> ,Chihaya MURATA,Hironobu WATANABE,Mineto UCHIYAMA,Naoki NOTO,Susumu SAITO,Masami KAMIGAITO
15:45	4B23	Development of Photocontrolled Polymerization via Reversible Decarboxylation Using Carboxylate Groups as Dormant Species <u>Haruyuki KATADA</u> ,Hironobu WATANABE,Mineto UCHIYAMA,Masami KAMIGAITO

Room C

Mon. May 19

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Kametani Yuki, presiding

9:00	1C01	Circularly Polarized Dual-Emission Properties of <i>o</i> -Carborane Derivatives with Chiral π-Conjugated Units <u>Kazuhiro Yuhara</u> ,Kazuo Tanaka
9:15	1C02	Luminescent Multifunctionalization of Aryl-Substituted Anionic Carboranes with Various Counter Cations <u>Takumi Yanagihara</u> ,Kazuo Tanaka

9:30	1C03	Development of Near-Infrared Light-Emitting Polymers with Electron- Accepting Properties of Hypervalent Silicon Compounds <u>Masayuki Gon</u> ,Ippei Kanetani,Kazuo Tanaka
		Terashima Takaya, presiding
9:45	1C04	Helicity Control of Poly(diphenylacetylene) Derivatives upon Photoirradiation
		<u>Yuki Nishikawa</u> ,Daisuke Hirose,Katsuhiro Maeda
10:00	1C05	MOF-templated synthesis of one-dimensionally crosslinked polymers <u>Yuki Kametani</u> ,Takashi Uemura
		Gon Masayuki, presiding
15:00	1C20	Synthesis and Microphase Separation of Maleic Acid Derivatives/Vinyl Ether Alternating Copolymers <u>Hiroyuki Kouno</u> ,Makoto Ouchi,Takaya Terashima
15:15	1C21	Microphase Separation of Statistical Copolymers Bearing Imidazolium Cations and Alkyl Groups into Controlled Morphology <u>Keita Iuchi</u> ,Makoto Ouchi,Takaya Terashima
15:30	1C22	Microphase Separation of Acrylonitrile-Based Statistical Copolymers: Phase Transition and Orientation Control of Lamellar Structures <u>Takaya Terashima</u> ,Kenshiro Iguchi
15:45	1C23	Direction control of the photoinduced topochemical polymerization of diacetylenes in the side-chain liquid crystalline polymer film <u>Sadayuki Asaoka</u> ,Seiya Yokogi,Hikaru Oota,Shinichi Sakurai

Tue. May 20

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Hirai Tomoyasu, presiding

9:00	2C01	Water-Intercalated and -Responsive Lamellar Materials via the Self- Assembly of Sodium Acrylate Random Copolymers <u>Takaya Terashima</u> ,Yuki Horiike
9:15	2C02	Self-Assembly and Micelle Formation in the Mixtures of Cationic/PEG Random Copolymers <u>Teruya Machino</u> ,Makoto Ouchi,Takaya Terashima
9:30	2C03	Photo or Salt-Responsive Self-Sorting of Amphiphilic Random Copolymer Micelles <u>Rikuto Kanno,</u> Makoto Ouchi,Takaya Terashima
	Id	a Shohei, presiding
9:45	2C04	Synthesis and thermo-response behavior of carbon chain polymers with gem-bisPEG side chain by malonic ester synthesis-type polymerization method <u>Tatsuma Aiuchi</u> ,Taichi Meno,Keitaro Matsuoka,Kazuki Sada
10:00	2C05	One Handed Helicity Induction in Poly(dinaphthylacetylene)s Bearing Carboxy Groups by Chiral Guests and its Memory <u>Al Yeasin</u> ,Tatsuya Nishimura,Katsuhiro Maeda
	N	ishimura Tatsuya, presiding
15:00	2C20	Development of circular polarized luminescence materials based on organic-inorganic hybrid polymers. <u>Shunsuke Morii,</u> Yoshinobu Nakamura,Syuji Fujii,Tomoyasu Hirai
15:15	2C21	Preparation of ordered chiral silica domain using block copolymer as temprate <u>Towa Shinoda</u> ,Yoshinobu Nakamura,Syuji Fujii,Tomoyasu Hirai

15:30	2C22	Preparation of novel giant molecules and evaluation of its nanostructure <u>Mayu Mine</u> ,Shunsuke Morii,Yoshinobu Nakamura,Syuji Fujii,Tomoyasu Hirai
15:45	2C23	Preparation of novel maleimide derivatives for circularly polarized luminescence <u>Kai Terami</u> ,Yoshinobu Nakamura,Shuuji Fujii,Tomoyasu Hirai

Wed. May 21

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Kohsaka Yasuhiro, presiding

9:00	3C01	Synthesis of TPA containing Hyper Branched Polymers by Co catalyzed [2+2+2] Cycloaddition Polymerization of Alkynes and Their Conductive Properties. <u>Yuga Tsunoda</u> ,Kouta Ibe,Sentaro Okamoto
9:15	3C02	Structural design of thermoresponsive star polymers for fine control of aggregation behavior Shuya Hayashi, <u>Shohei Ida</u> ,Shokyoku Kanaoka
9:30	3C03	Design of Alternating Graft Copolymer toward Sequence-Specific Self- Assembly <u>Aoto Ishikawa</u> ,Makoto Ouchi
		Aoki Daisuke, presiding
9:45	3C04	Dismantlable adhesives using main-chain scission by transesterification from side groups <u>Yuto Kawamura</u> ,Yasuhiro Kohsaka
10:00	3C05	Photocurable Dismountable Adhesives by the Combination of Radical Ring-Opening Polymerization and Intramolecular Transesterification Koki Naganuma <u>,Yasuhiro Kohsaka</u>
		Kakuchi Ryohei, presiding
15:00	3C20	Synthesis, main chain editing and degradation of polyolefins bearing carbonyl groups <u>Kohei Takahashi</u>
15:15	3C21	Synthesis of composite materials using polyoxometalates and polysiloxane derivative with hydroxyl groups at the end of the alkyl chains in the imidazolium salt moiety. <u>Taishi Yoshida</u> ,Takeru Ito,Tsukasa Ichikawa,Nobukatsu Nemoto
15:30	3C22	Synthesis and ammonolysis of the cross-liked polymers composed of poly(trimethylene carbonate) and β-cyclodextrin <u>Shuto Uchiumi,</u> Toyokazu Tsutsuba,Tatsuo Taniguchi,Daisuke Aoki
15:45	3C23	Synthesis of hetero-telechelic PEGs and the effect of their structure on the properties of rotaxane cross-linked polymers <u>Yuki Sueyoshi</u> ,Shinya Kinoshita,Toyokazu Tsutsuba,Tatsuo Taniguchi,Daisuke Aoki

Thu. May 22

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Takagi Koji, presiding

9:00	4C01	Development of Cellulose Modifications via Multi-Component Reaction <u>Minoru Kuroiwa</u> ,Issei Otsuka,Atsushi Narumi,Ryohei Kakuchi
9:15	4C02	Synthesis, structure, and properties of ethylene-propylene rubber crosslinked with a combined boroxine/boronic acid ester functionality <u>Ryo Tanaka</u> ,Yusuke Bando,Yuushou Nakayama,Takeshi Shiono
9:30	4C03	Synthesis and Characterization of Coumarin-Modified Photoresponsive Alginate <u>Taketo Yoshida,</u> Hiromitsu Sogawa,Fumio Sanda
	Та	anaka Ryo, presiding
9:45	4C04	Synthesis of Polymers Constructed by 3,5-Hydantoin Rings and their Thermal Properties <u>Tomoya Hayashi</u> ,Haruto Minami,Yuji Kosugi,Takehiro Kawauchi,Yoshio Furusho,Takeshi Endo
10:00	4C05	Designing of AB Monomers and Controlled/Living Click Polymerization for Efficient Self-Immolative Degradation. <u>Yuto Nakauchi</u> ,Tomohiro Kubo,Kotaro Satoh
	Sc	ogawa Hiromitsu, presiding
15:00	4C20	Synthesis and Photoluminescence Properties of Copper Coordination Polymer obtained from Pyridine-Modified Cyclic Aromatic Amide as Chiral Ligand <u>Koji Takagi</u> ,Taiga Shirai,Takuya Nakashima,Tomoyuki Ikai
15:15	4C21	The unexpected kinetics in the synthesis of glycolated polythiophenes <u>Christine Keiko Luscombe</u>
15:30	4C22	Facet-Selective Block Co-Crystallization of Two Different Metal Complexes using a Crystal Lattice Mismatch <u>Tomoya Fukui</u> ,Masahiro Tsuchiya,Naoya Mita,Takanori Fukushima
15:45	4C23	Supramolecular coordination polymer formed by self-assembly of trisporphyrin <u>Naoyuki Hisano</u> ,Tomoki Kodama,Takeharu Haino

Room D

Mon. May 19

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Ito Asae, presiding

9:00	1D01	Comprehensive structural analysis of the stacked lamellar structure of polyethylene for an enhanced understanding of the amorphous region <u>Mirei Abe</u> ,Shusuke Kanomi,Tomohiro Miyata,Hiroshi Jinnai
9:15	1D02	Electron microscopy observation of interfaces between semicrystalline polymers and inorganic substrates <u>Kazuhiro Sato</u> ,Tomohiro Miyata,Shusuke Kanomi,Kai Chen,Hiroshi Jinnai
9:30	1D03	Analysis of crystallization behavior and crystal morphology of polyelectrolytes <u>Yasushi Maeda</u> ,Reiya Watanabe,Atsushi Matsumoto,Shinji Sugihara
	Μ	iyata Tomohiro, presiding
9:45	1D04	The effect of copolymerization with various alpha-olefins on the

crystallization of poly(4-methyl-1-pentene)

		<u>Hiromu Hasegawa</u> ,Asae Ito,Koh-hei Nitta,Yusuke Hiejima,Shuhei Ogata,Masahiko Okamoto
10:00	1D05	Visualization of spatial distribution of angstrom- to nanometer-scale structures in filler-containing epoxy resins <u>Naoto Tobita</u> ,Hiroki Ogawa,Yamamoto Satoru,Tanaka Keiji,Ono Shunsuke,Takenaka Mikihito
10:15	1D06	Influence of alkyl length on the morphology and higher-order structure of poly(amic acid) flower-like particles <u>Yuqian Chen</u> ,Kan Hatakeyama,Yuta Nabae,Teruaki Hayakawa
	Ite	o Asae, presiding
15:00	1D20	Physical Properties of Poly(ethyl acetate) with Different Crystal Polymorphism <u>Mizuki Nakayama</u> ,Takuya Matsumoto,Takasi Nishino
15:15	1D21	Crystallization process for stretched poly(trimethylene terephthalate) near the glass transition temperature III <u>Takashi Konishi</u> ,Hiroshi Yokota,Yoshihisa Miyamoto
	K	onishi Takashi, presiding
15:30	1D22	Effects of a temperature gradient on segregation behavior of plasticized polystyrene <u>Thoa Thi Kim Huynh</u> ,Viet Quoc Do,Masayuki Yamaguchi
15:45	1D23	Role of Fibrous Nucleating Agent on Controlling Isotropic Shrinkage of Poly(lactic acid) <u>Dai Hoang Giang Vo</u> ,Masayuki Yamaguchi
16:00	1D24	Flow-Induced Crystallization of Poly(lactic acid) Blends with Long- Chain Branched Polymers <u>Ruiqi Feng</u> ,Masayuki Yamaguchi

Tue. May 20

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Yamamoto Katsuhiro, presiding

9:00	2D01	Oxygen Diffusion in Amorphous Polymers under Low Temperatures Probed by a Phosphorescent Imide Compound <u>Rika Watanabe</u> ,Marina Doi,Haonan Liu,Masatoshi Tokita,Shinji Ando
9:15	2D02	Study on the Effects of Cellulose Nanofibers on the Crystallization and Mechanical Properties of Polyvinyl Alcohol Nanocomposite <u>Farjana Shahrin Prova</u> , Akihiko Toda, Ken Taguchi
9:30	2D03	Epoxy Nanocomposites with Graphene Oxide <u>Seira Morimune-Moriya</u> ,Kosuke Nogami
	Μ	orimune-Moriya Seira, presiding
9:45	2D04	The sisters of phase-separated structures with triply periodic minimal surfaces (G-, D-, and P-surfaces) in block copolymer/homopolymer blend systems
		Katsuhiro Yamamoto, Yusuke Takai, Hideaki Takagi
10:00	2D05	Pressure-Composition Phase Diagram of Baroplastic Block Copolymers <u>Hiroki Degaki</u> ,Ikuo Taniguchi,Shigeru Deguchi,Tsuyoshi Koga
10:15	2D06	Investigation of Diffusion and Re-orientation in Iodine/Nylon 6 Complex [26]; Wetting Behavior of Simple Iodine under Humid Environment. <u>Akio Kawaguchi</u>

Matsuda Yasuhiro, presiding

15:00	2D20	Application of Viscoelastic Theory to Composite Films Containing Single-Walled Carbon Nanotubes <u>Hiroaki Nobuoka</u> ,Osamu Urakawa,Tadashi Inoue
15:15	2D21	Silica Aggregation State and Composite Viscoelastic Properties for Polystyrene/Poly(vinyl acetate) Blends with Different Compositions <u>Furiku Maruyama</u> ,Yoshihisa Fujii,Naoya Torikai
15:30	2D22	Evaluation of Hydrated Structure and Mechanical Properties of Polyethylene Glycol Hydrogels <u>Shuhei Ogura</u> ,Yoshihisa Fujii,Naoya Torikai
	U	rakawa Osamu, presiding
15:45	2D23	Fibrous Structure and Flow Temperature of Poly(Lactic Acid) Gels Formed at Different Temperatures <u>Yasuhiro Matsuda</u> ,Kaito Tamura,Kei Hosomi,Atsushi Sugita
16:00	2D24	Enhancement of Poly (L-Lactic Acid) Gel Mechanical and Thermal Properties: The Effects of Synthetic Polymer Additives and Fabrication Methods <u>Yasuhiro Matsuda</u> ,Alfitra Putra

Wed. May 21

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Kawahara Seiichi, presiding

9:00 3D	01	Deformation behavior of poly(methylmethacrylate) chains under biaxial stretching process Aya Fujimoto,Ayumi Hamada,Kakeru Obayashi, <u>Ken Kojio</u>
9:15 3D	02	The network structures and the mechanical properties of chemical crosslinking polyurea and polyurethane elastomers <u>Kakeru Obayashi</u> ,Ken Kojio
9:30 3D	03	Analysis of the mechanism of stress characteristics of fluororubber using small-angle neutron scattering and atomic force microscopy <u>Shin-ichirou Oka</u> ,Ayako Aoyagi,Yohei Noda,Satoshi Koizumi
	Ko	ojio Ken, presiding
9:45 3D	04	Structure, strain-induced crystallization and mechanical properties of vulcanized natural rubber <u>Seiichi Kawahara</u> ,Yoshimasa Yamamoto,Masaki Yamano
10:00 3D	05	Thermal and mechanical properties of fluorine-containing liquid crystalline epoxy modified cyanate ester cured system Tsubasa Miyauchi <u>,Kantaro Nishio</u> ,Miyuki Harada
10:15 3D	06	Mechanical and thermal properties of cyanate ester systems modified with POSS with epoxy groups and different side chains <u>Koji Kawahara</u> ,Miyuki Harada,Daisuke Tanida,Yusaku Sainohira
	Sh	undo Atsuomi, presiding
15:00 3D	20	Preparation and Higher-order Structural Characterization of Epoxy Resins cured with Liquid Crystalline Diamine <u>Rika Marui,</u> Kan Hatakeyama,Yuta Nabae,Teruaki Hayakawa
15:15 3D	21	Synthesis of Multifunctional Epoxy Monomer and Thermal Conductivity of Epoxy Resin <u>Takahisa Hiramatsu</u> ,Rika Marui,Kan Hatakeyama,Yuta Nabae,Teruaki Hayakawa
	Na	abae Yuta, presiding

15:30	3D22	Segmental Dynamics in Multicomponent Epoxy Resins <u>Atsushi Tokunaga</u> ,Atsuomi Shundo,Satoru Yamamoto,Keiji Tanaka
15:45	3D23	Segmental Dynamics of Dicyandiamide-Cured Epoxy Resins <u>Yuika Kamei</u> ,Atsuomi Shundo,Satoru Yamamoto,Keiji Tanaka
16:00	3D24	Mechanical properties of homo-IPN films in which cross-linked poly(methyl methacrylate) networks are interpenetrating Soma Higuchi,Shogo Nobukawa, <u>Katsuhiro Inomata</u>

Thu. May 22

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Akagi Yuki, presiding

9:00	4D01	Fast Carboxy Exchange Leading to One-Pot Synthesis and Rapid Stress-Relaxation of Vitrimer-like Acryl Elastomers <u>Tomoyasu Kunii</u> ,Mikihiro Hayashi,Yasuhiro Kohsaka
9:15	4D02	Heterogeneous thermoresponsive behavior of microgels revealed by electrophoresis <u>Yuichiro Nishizawa,</u> Yuji Sato,Daisuke Suzuki
		Nishizawa Yuichiro, presiding
9:30	4D03	Effects of thickeners on near-infrared fluorescent gels <u>Yuki Nakajima</u> ,Kaho Morinaga,Yuki Akagi
9:45	4D04	Relationship between mechanical and solvation properties in TetraPEG network ion gels <u>Tomoya Tashiro</u> ,Aran Kato,Naoyuki Sakumichi,Takamasa Sakai,Kenta Fujii
10:00	4D05	Analysis of structural change induced by swelling in the crosslinked region of polyacrylonitrile freezing and thawing gel <u>Hiroki Asada</u> ,Yutaka Tanaka
		Hagita Katsumi, presiding
15:00	4D20	Exact scaling law for shear modulus of a phantom network as a function of chain density with a nontrivial exponent and its application to the elasticity of rubbers and gels <u>Tetsuo Deguchi</u> ,Erica Uehara,Jason Cantarella,Clayton Shonkwiler
15:15	4D21	Dependence of elasticity on structural inhomogeneity in a polymer network with a fixed valency via equilibrium positions of crosslinks <u>Erica Uehara</u> ,Tetsuo Deguchi
15:30	4D22	Molecular simulation of effects of concentration and polymerization mechanism on network structure of radical polymerization gels <u>Tsutomu Furuya</u> , Tsuyoshi Koga
		Furuya Tsutomu, presiding
15:45	4D23	Coarse-grained MD analysis with bond breakage for 2D scattering pattens of gel networks under stretching <u>Katsumi Hagita</u> ,Takahiro Murashima
16:00	4D24	Investigation of the local environment on the thremoresponsive hydrogel by the nanoparticle probe technique <u>Keita Namba</u> ,Takuma Kureha

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Sanada Yusuke, presiding

9:00	1E01	Quantitative Analysis of Branched High-Density Polyethylene Content Using Spectroscopy in Terahertz region <u>Ayano Kitamura</u> ,Naoya Okitsu,Harumi Sato
9:15	1E02	Molecular dynamics of a polymeric film using ex-situ magnetic resonance imaging under static magnetic field gradient with needle-like ferromagnet Natsuki Kawabata, <u>Naoki Asakawa</u>
9:30	1E03	Memory of orientation for crystals obtained by flow-induced crystallization <u>Guojuan Xu</u> ,Masayuki Yamagichi
		Asakawa Naoki, presiding
9:45	1E04	Viscoelasticity and Theoretical Considerations of Single-Walled Carbon Nanotubes <u>Hiroaki Nobuoka</u> ,Osamu Urakawa,Tadashi Inoue
10:00	1E05	Study of phase separation-dissolution behavior of methylcellulose aqueous solution with hysteresis <u>Yusuke Sanada,</u> Toshiki Hara,Yukiteru Katsumoto
10:15	1E06	Investigation of Lamellar Orientation and Mechanical Properties of Semicrystalline Polyethylene <u>Mohammed Althaf Hussain</u> ,Takashi Yamamoto,Shigeru Yao
		Shundo Atsuomi, presiding
15:00	1E20	Effect of Interfacial Structure of Organic Interlayers on Solid Lubrication Properties of Silver Thiolate Coordination Polymers <u>Hiroshi Eguchi</u> ,Ren Muramatsu,Kenji Nagata
15:15	1E21	Thermal Stability of a Polystyrene Thin Film on the Adsorbed Layers of Random Copolymers Prepared with the Different Spin-Coated Solvents Akane Taniguchi,Yukiko Fujita,Yoshihisa Fujii <u>,Naoya Torikai</u>
15:30	1E22	Stability of Polystyrene Adsorbed Layer and the Spin-Coated Homologue Thin Film under Different Solvent Atmosphere <u>Ryou Tsurui,</u> Yoshihisa Fujii,Naoya Torikai,Yukiko Fujita
		Fujii Yoshihisa, presiding
15:45	1E23	Glass Transition Temperature of Polymer Thin Films on Roughened Solid Interfaces <u>Taketo Nakasuka</u> ,Yuma Morimitsu,Keiji Tanaka
16:00	1E24	Preparation and Structure of Water/Oil Pepellent Polymer Surface <u>Takashi Nishino</u> ,Taichi Takasuga,Takuya Matsumoto,Atsunori Mori

Tue. May 20

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Abe Tatsuki, presiding

9:00 2E01 Assembly of tough poly (methyl acrylate) microparticles at the air/water interface

		<u>Yuma Sasaki</u> ,Yuichiro Nishizawa,Natsuki Watanabe,Takayuki Uchihashi,Daisuke Suzuki
9:15	2E02	Influence of Substrate Wettability on Aggregation State of Interfacial Adsorbed Chains for Polystyrene-b-Poly(methyl methacrylate) Diblock Copolymer <u>Shunei Ichimura</u> ,Yoshihisa Fujii,Naoya Torikai
9:30	2E03	Correlation Between the Positioning of Low Surface Free Energy Blocks and Microdomain Alignment in Thin Films <u>Ryota Uehara</u> ,Shinsuke Maekawa,Takehiro Seshimo,Ryutaro Sugawara,Takahiro Dazai,Kazufumi Sato,Kan Hatakeyama,Yuta Nabae,Teruaki Hayakawa
	Т	orikai Naoya, presiding
9:45	2E04	Interfacial Adhesion of Thermoplastic Polymers to a Solid Substrate <u>Reiki Eto</u> ,Tatsuki Abe,Yuma Morimitsu,Keiji Tanaka
10:00	2E05	Depth Profiling of Cured Epoxy Compounds at the Copper Interface <u>Shintaro Saeki</u> ,Tatsuki Abe,Keiji Tanaka
10:15	2E06	Elucidation of the adhesive mechanism of materials for bonding different substrates <u>Hiromasa Yamamoto</u> ,Yasunobu Hotta,Daisuke Kusano
	М	atsumoto Takuya, presiding
15:00	2E20	Response of Homoimmiscible Water Separated from Bulk Water at Ice/Water Interface to Overpressure <u>Hiromasa Niinomi</u> ,Hiroki Nada,Tomoya Yamazaki,Tetsuya Hama,Akira Kouchi,Tomoya Oshikiri,Masaru Nakagawa,Yuki Kimura
15:15	2E21	Aggregation States of Epoxy Resins at Solid Interfaces with Different Chemical States <u>Koyu Eto</u> ,Tatsuki Abe,Keiji Tanaka
15:30	2E22	Aggregation States of Epoxy Resins Cured at Polyamide 6 surfaces <u>Shunta Tamura</u> ,Tatsuki Abe,Keiji Tanaka
15:45	2E23	Influence of Hygrothermal Aging on the Interfacial Properties of Epoxy Resins <u>Ko Yamaguchi</u> ,Daisuke Kawaguchi,Atsuomi Shundo,Satoru Yamamoto,Noboru Miyata,Tsukasa Miyazaki,Hiroyuki Aoki,Hironori Taguchiri,Takako Kikuchi,Keiji Tanaka
16:00	2E24	Interfacial Mobility of Epoxy Segments at Adhesive Interfaces via Evanescent Wave-Excited Fluorescence Lifetime Measurement <u>Honori Tajima</u> ,Yuji Yasukochi,Tatsuki Abe,Keiji Tanaka

Wed. May 21

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Hayakawa Teruaki, presiding

9:00	3E01	Chain Diffusion in High-Performance Thermoplastics at the Adhered Interface <u>Keigo Kawahara</u> ,Tatsuki Abe,Shin Hirata,Masato Honma,Satoru Yamamoto,Keiji Tanaka
9:15	3E02	Thermal motion of P(St-r-VCa) chains adsorbed on an alumina surface <u>Shuji Morita</u> ,Yuma Morimitsu,Shiho Tanizaki,Satoru Yamamoto,Kotaro Satoh,Keiji Tanaka
9:30	3E03	Solvent-dependent structural changes of poly(phenylacetylene) derivatives bearing alanine residues in the side chains and their direct observation

		<u>Kiichi Hasegawa</u> ,Daiki Oka,Mitsuo Hara,Kazuki Miyata,Takeshi Fukuma,Tatsuya Nishimura,Katsuhiro Maeda
	М	orimitsu Yuma, presiding
9:45	3E04	Compression-Stress Responsive Layered Polydiacetylene with Polymer Guests <u>Reiko Takagi</u> ,Hiroaki Imai,Mitsuo Hara,Yuya Oaki
10:00	3E05	Development of PS-PMMA Block Copolymers Incorporating Poly(n-butyl methacrylate) for Low-Temperature Thermal Annealing toward Perpendicular Microdomain Alignment <u>Hsi Chih Wang</u> ,Takehiro Seshimo,Takahiro Dazai,Kazufumi Sato,Kan Hatakeyama,Yuta Nabae,Teruaki Hayakawa
10:15	3E06	Development of regenerable column packing materials with selective adsorption properties for bisphenol A <u>Masayuki Yokoyama</u> ,Haruki Hoshino,Daisuke Aoki,Tatsuo Taniguchi
	O	aki Yuya, presiding
15:00	3E20	Topic models for analyzing trend in polymer science and classification of measurement images <u>Yoshifumi Amamoto</u> ,Takaaki Ohnishi
15:15	3E21	Exploring 3D Food Printing for Advancing 4D Printing Applications in Smart and Functional Foods <u>Islam Md Shaharul</u> ,Jun Ogawa,Hidemitsu Furukawa
15:30	3E22	Structure and physical properties of composites incorporating nanocellulose before and after organo-modification as an organic filler in a fluorinated polymer matrix <u>Chisato NARA</u> ,Yuya MATSUO,Rumon RokibulHasan,Atsuhiro Fujimori
15:45	3E23	Structural color occurrence by multilayer formation of organo-modified inorganic nanoparticles -effect of photopolymerization of diynoic acid between modified chains- <u>Shoma SAKAMOTO</u> ,Ayane YAMAZAKI,Arisa WATANABE,Katsuhiko SASAKI,Hisayoshi KOBAYASHI,Kiminori HIRAI,Atsuhiro FUJIMORI
16:00	3E24	Mixed Monolayers on the Water Surface of Inorganic Nanoparticles - Nanoclay and Nanodiamond - <u>Ryoma NAKADA</u> ,Tsubasa TAKIGUCHI,Atsuhiro FUJIMORI

Thu. May 22

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Matsui Jun, presiding

9:00	4E01	Effect of the inner shell structure on supercooling of heat storage capsules <u>Nagino Mori</u> ,Soshi Kanaji,Nozomu Suzuki,Hideto Minami,Toyoko Suzuki
9:15	4E02	Preparation of cylindrical composite particles using stirring method <u>Mayuka Mishima</u> ,Asuka Ishii,Toyoko Suzuki,Nozomu Suzuki,Hideto Minami
9:30	4E03	Preparation of Natural Rubber Hollow Particles by Thiol-ene reaction <u>Mahiro Shibatani</u> ,Yusho Fujiwara,Maytawee Malineerat,Yasuyuki Yamada,Takeshi Wakiya,Nozomu Suzuki,Toyoko Suzuki,Hideto Minami

9:45	4E04	Surface modification of carbon black particles to improve electric field response. Hideyoshi Murata,Ryoya Takahashi,Daisuke Aoki,Tatsuo Taniguchi
10:00	4E05	Surface modification of living polymer particles synthesized by RAFT precipitation polymerization Sota Kayama, Daisuke Aoki, Tatsuo Taniguchi
	T	aniguchi Tatsuo, presiding
15:00	4E20	Preparation of non-chemically crosslinked two-dimensional polymer sheets by exfoliation from highly oriented lamellar films Mizuki Ohke <u>,Jun Matsui</u>
15:15	4E21	Surface Rheological Properties of Aligned Cellulose Nanofibril Monolayer Films at the Air-Water Interface <u>Koichiro Ishida</u> ,Yoshinobu Tsujii
15:30	4E22	Compression of highly water-swollen pNIPAm-based microgels at the air/water interface <u>Takahisa Kawamoto</u> ,Haruka Minato,Daisuke Suzuki
15:45	4E23	L/LB films of Teflon-based polymers - a solvent-free spreading method for insoluble molecules - <u>Itsuki FUJII</u> ,Naoto YOKOKAWA,Atsuhiro FUJIMORI
16:00	4E24	Mixed monolayers on the water surface of polyguanamine derivatives containing azacalixarene ring with different metal collection properties <u>Ryoma TERUI</u> ,Manato YOSHINO,Yuji SHIBASAKI,Atsuhiro FUJIMORI

Room F

Mon. May 19

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Asaoka Sadayuki, presiding

9:00	1F01	Photoinduced energy/electron transfer catalytic reactions within single-chain nanoparticles <u>Masanori Nagao</u> ,Kai Mundsinger,Christopher Barner-Kowollik
9:15	1F02	Photoreduction of carbon dioxide using porphyrin-cored star polymers <u>Masanori Nagao</u> ,Shota Furusawa,Hikaru Matsumoto,Yoshiko Miura
9:30	1F03	Synthesis of polymeric adsorbent for selective adsorption of heavy rare earth elements <u>Hiromasa Okawara</u> ,Kohei Watanabe,Azumi Akiyama,Daisuke Aoki,Tatsuo Taniguchi,Tsuyosi Ogata,Kazuhiro Narita
9:45	1F04	Synthesis and gas permeability of poly(diphenylacetylene)s having methyl and silyl groups at meta- and para-position of phenyl groups <u>Toshikazu Sakaguchi</u> ,Shinpei Kajimura,Tamotsu Hashimoto
	Na	agao Masanori, presiding
15:00	1F20	Gas Separation Properties of Network Polymer Membranes Utilizing Diacetylene Groups <u>Shiro Yamakawa</u> ,Kazukiyo Nagai
15:15	1F21	Photocatalytic reduction in the membranes having normally oriented cylindrical nanochannels <u>Sadayuki Asaoka</u> ,Kiko Shiokawa,Kazuki Fukada

15:30	1F22	Synthesis of Single-Handed Helical Ladder Polymers with a Helical Cavity and Helical Grooves and Their Chiral Recognition Capabilities <u>Tomoyuki Ikai</u> ,Takehiro Matsumoto,Shoki Takeda,Kosuke Oki,Eiji Yashima
15:45	1F23	Interaction of Amphiphilic Alternating Copolymers Bearing Dense Triazole Backbone with Cyclodextrins <u>Akihito Hashidzume</u> ,Tomoaki Yamamoto,Ryoichi Taguchi,Zijun Yan,Ryo Ejima,Linlin Xu,Masaki Nakahata,Yuri Kamon
16:00	1F24	Cadmium ion adsorption properties of polyanions carrying carboxylate and thiol-containing amino acid residues in their side chains <u>Masaki Nakahata</u> ,Chikano Okamoto,Motomu Tanaka,Akihito Hashidzume

Tue. May 20

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Kimura Kento, presiding

9:00	2F01	Unraveling Carbon Dioxide (CO2) Transport Behavior in Poly(fluoroalkyl acrylate) and Poly(fluoroalkyl methacrylate): A Comparative Study of Fluoropolymer Structure-Property Relationships <u>Sinan FENG</u> ,Yucheng ZHANG,Roman SELYANCHYN,Shigenori FUJIKAWA,Shinichi MURATA,Atsushi TAKAHARA
9:15	2F02	Synthesis of hollow polymer microsphere-immobilized MacMillan catalysts and their application to asymmetric Diels-Alder reaction <u>Tomoya Ikke</u> ,alam md rabiul,Yuri Hashimoto,Naoki Haraguchi
9:30	2F03	Exciton Dissociation in Fused-Ring π-Conjugated Molecular Films <u>Takumi NOBUOKA</u> ,Yuki SATO,HyungoDo KIM,Shunsuke YAMAMOTO,Hideo OHKITA
9:45	2F04	Excitation energy dependence of charge generation in polythiophene/fullerene blend films <u>Haruka Okazaki</u> ,Kazuki Kohzuki,Shunsuke Yamamoto,Hideo Ohkita
	м	lasuhara Akito, presiding
15:00	2F20	Preparation and conductivity of ionic liquid-doped rigid polymer network film for application to polymer electrolyte fuel cells Ryouhei Nishioka,Naotaka Kimura, <u>Tetsuya Uchida</u>
15:15	2F21	Singlet exciton diffusion in conjugated polymer films with different crystallinities <u>Yulong Tang</u> ,Kazuma Kato,Mizuki Yamazaki,Hyung Do Kim,Shunsuke Yamamoto,Hideo Ohkita
15:30	2F22	Rheological Evaluations of Electrode Slurries Containing Solid Polymer Electrolytes <u>Kento Kimura</u> ,Mana Suzuki,Masayoshi Takano,Ryuta X Suzuki,Yuichiro Nagatsu,Yoichi Tominaga
15:45	2F23	Preparation of novel platinum-substitute oxygen reduction catalysts obtained by calcination of iron phthalocyanine complexes with heterocyclic structures <u>Yuta Nakazato</u> ,Chaolin Bai,Tsukasa Ichikawa,Izuru Kobayashi,Nobukatsu Nemoto,Kotaro Yoshioka,Shota Tanaka,Yuki

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Akagi Yuki, presiding

9:00	3F01	Powderization of Gallium-Indium Eutectic by Surface Modification and Preparation of Conductive Composites <u>Shunichiro Ito</u> ,Christophre Hiromi Shimamura,Kazuo Tanaka
9:15	3F02	Polymerization of an AB2-type monomer with cage silsesquioxane and properties of the polymer <u>Naoki Yamaguchi</u> ,Cashew Nagashima,Hiroaki Imoto,Kensuke Naka
9:30	3F03	Fabrication of supramolecular materials using cage-shaped silsesquioxane bis-urea derivatives <u>Jinshiro Takeuchi,</u> Hiroaki Imoto,Kensuke Naka
9:45	3F04	Surface modification using surface segregation of octaalkoxy- substituted POSSs <u>Nanami Okamura,</u> Jinshiro Takeuchi,Hiroaki Imoto,Kensuke Naka
	In	noto Hiroaki, presiding
15:00	3F20	Mechanical Properties of Polycarbonate with Reversible Cross-Links <u>Yuta Fukao</u> ,Ryohei Ikura,Kenji Yamaoka,Hironobu Morishita,Yoshinori Takashima
15:15	3F21	Fabrication and Mechanical Properties of Nanocomposites with Nano- clay Coated by a Flexible Polymer Layer <u>Tetsuro Kamada</u> ,Takuya Matsumoto,Takashi Nishino
15:30	3F22	Effects of External Solution on the Structure of PEO/silica Mixture <u>Tomoki Takao</u> ,Yuki Akagi,Saki Kusakabe
15:45	3F23	Physical properties of PEO/silica mixtures with chemical bonding <u>Sota Horie</u> ,Saki Kusakabe,Tomoki Takao,Yuki Akagi
16:00	3F24	Preparation of photo oxidized silicon oxide nano films with amphiphilic cyclosiloxanes <u>Chinami Habu</u> ,Yuki Irie,Aki Kashiwazaki,Masaya Mitsuishi

Thu. May 22

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Matsumoto Takuya, presiding

9:00	4F01	Development of nanostructure by hybridizing chitin nanofibers with polyoxometalates and their control of properties <u>Keita Kuroiwa</u> ,Kai Miyamoto,Yamaguchi Ayaka,Shinsuke Ifuku
9:15	4F02	Transparent film obtained from methacrylate with cage silsesquixoane in its side chain <u>Cashew Nagashima</u> ,Hiroaki Imoto,Kensuke Naka
9:30	4F03	Development of Various Functional Cellulose Nanofiber Composite Films Utilizing Polyaniline-Derivative Conversion Synthetic Routes <u>Eiichi Shoji</u> ,Mitsuaki Hatano
9:45	4F04	Innovation of a Polymer Actuator-Driven Low-Voltage Thin Micro Pump-Integrated Card for Microfluidic Systems <u>Eiichi Shoji</u>
	К	uroiwa Keita, presiding
15:00	4F20	Surface properties and icephobicity of polymethacrylates with various side chains

		<u>Takuya Matsumoto</u> ,Yuki Shiramatsu,Takashi Nishino
15:15	4F21	Preparation of adhesives by polymer knitting method with movable cross-links <u>Shunsei Sasaki</u> ,Sho Kosaba,Kenji Yamaoka,Ryohei Ikura,Yoshinori Takashima
15:30	4F22	Fabrication of photo-adhesive materials incorporating ortho- substituted pyridyl groups <u>Masahiro Furutani</u> ,Hinata Okada,Miku Matsui
15:45	4F23	Fluorination of Ethylene-Tetrafluoroethylene Copolymer Film at Surface in Liquid Media <u>Eisuke Yasuo</u> ,Masafumi Sugiyama,Yuichiro Ishibashi,Satoru Hommura,Takashi Okazoe,Daisuke Kawaguchi
16:00	4F24	Surface Modification of Organic Electrochemical Transistors <u>Shunsuke Yamamoto</u> ,Sakyo Abe,Sonosuke Watanabe,Masaya Mitsuishi

Room G

Mon. May 19

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Kubo Shoichi, presiding

9:00	1G01	Synthesis of dye-terminated conjugated polymers via direct arylation reaction and optical property evaluation <u>Ziwei Hu</u> ,Takaki Kanbara,Junpei Kuwabara
9:15	1G02	Structure Effect on the Photophysical Properties of Triarylamine- Derived Polyesters via Ring-Opening Alternating Copolymerization <u>Yu-Jen Shao</u> ,Feng Li,Takuya Isono,Guey-Sheng Liou,Toshifumi Satoh
9:30	1G03	Synthesis and optical properties of novel π-conjugated polymers bearing resorufin unit in the main chain <u>Haruto Tateki</u> ,Aohan Wang
	I	Kuwabara Junpei, presiding
15:00	1G20	Polycondensation of Dithiols and Aldehydes to Develop High Refractive Index Materials <u>Masahiro Kanamaru</u> ,Shichong Zhang,Hiroaki Kishi,Souma Kitano,Taiyou Morimoto,Masashi Shiotuki
15:15	1G21	Single-Beam Recording of Polarization Hologram on Azo-Carbazole Composite Material <u>Mizuki Umeda</u> ,Kenji Kinashi,Boaz Jessie Jackin,Wataru Sakai
15:30	1G22	Novel Azomethine Carbazole Polymer for Full-Color Hologram <u>Abishaka Arul Dhas</u> ,Kenji Kinashi,Jackin Boaz Jessie,Wataru Sakai
15:45	1G23	Nonlinear optical response of dye-doped liquid crystals containing polymer-grafted nanorods <u>Shoichi Kubo</u> ,Jose Carlos Mejia,Atsushi Shishido

Tue. May 20

	1	Kawasaki Riku, presiding
9:00	2G01	Capture of bacteria by nanopillar hydrogels with different aspect ratios <u>Yohei Kotsuchibashi</u> ,Haruki Uchida,Rui Ikeda
9:15	2G02	Preparation of Thermal Conductive Film Composed of Nanosheet- Shaped Cello-oligosaccharide Crystals <u>Hiroto Maruyama</u> ,Yuuki Hata,Mitsuo Hara,Toshiki Sawada,Takeshi Serizawa
9:30	2G03	Development of Filamentous Virus-based Material for Carbon Capture and Storage <u>Yu-Ju Huang</u> ,Shoma Aki,Kazushi Imamura,Yu Hoshino,Toshiki Sawada
9:45	2G04	Development of a Polymer Thin-Film Force Sensor for Direct Application to the Skin <u>Takahiro Aihara</u> ,Shinji Takeoka
	I	Kotsuchibashi Yohei, presiding
15:00	2G20	Synthesis of urethane methacrylate crosslinkers derived from hydroxy urethanes and their application to shape-memory polymers <u>tatsuki morita</u> ,yoshiaki yoshida
15:15	2G21	Design of Liquid Crystalline Polymers with Ligands for Target Molecules and Their Molecule-responsive Behavior <u>Kaito Kinoshita</u> ,Akifumi Kawamura,Takashi Miyata
15:30	2G22	Nonlinear Electronic Characteristics of Doped P3HT Monolayer Networks <u>Naoki Hara</u> ,Yuya Ishizaki,Shusaku Nagano
15:45	2G23	Photoinduced phase separation of compatible binary blends of polymer liquid crystals <u>Yuno Yokota,</u> Yuya Ishizaki,Mitsuo Hara,Takahiro Seki,Shusaku Nagano
16:00	2G24	Orientation and Thermal Diffusivity of Side-Chain Liquid Crystalline Polymers with Smectic A Phases in Thin Films <u>Kanna Kobayashi</u> ,Yuya Ishizaki,Takahiro Seki,Shusaku Nagano

Wed. May 21

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Hayashi Mikihiro, presiding

9:00	3G01	Mechanical properties of gels with polymer chain entanglements and their applications to adhesive sheets <u>Takashi Miyata</u> ,Midori Murakami,Kano Kawamoto,Akifumi Kawamura
9:15	3G02	Development of stimuli-responsive liquid materials showing slow-acting change in photoluminescent color <u>Kyosuke Isoda</u> ,Takumi Omura,Shogo Morisako,Shuya Matsumoto
9:30	3G03	Preparation of rubbery soft polymer electrolyte membrane with nanomatrix channel <u>Yoshimasa Yamamoto</u> ,Seiichi Kawahara
9:45	3G04	4D Printing of Multifunctional Gels: A Polymer-Based Approach to Design and Versatility <u>Sabi Jahan Maliha</u> ,Jun Ogawa,Hidemistu Furukawa
	-	

Isoda Kyosuke, presiding

15:00	3G20	Preparation of block copolymer-based TPE with bond exchangeable sub-crosslink domains <u>Mikihiro Hayashi</u>
15:15	3G21	Precise Synthesis of Polyurethane Elastomer and their Application to Photoinduced Adhesion/Dismounting Marin Takeuchi,Takenori Ikegaya,Shogo Nobukawa, <u>Yasuhiro Kohsaka</u>
15:30	3G22	Carrier transport and circularly polarized luminescence of cholesteric liquid crystals based on oligo(p-phenylenevinylene) moieties <u>Masahiro Funahashi</u> ,Eigo Shimaoka,Masaki Kunihiro,Shuhei Morishita,Noriaki Tsurumachi
15:45	3G23	Machine learning-based size prediction of hydrogel microparticles synthesized via aqueous precipitation polymerization <u>Haruka Minato</u> ,Yuji Sato,Ryuji Namioka,Yasuhiko Igarashi,Risako Shibata,Yuya Oaki,Daisuke Suzuki

Thu. May 22

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Liu Haonan, presiding

9:00	4G01	Higher-ordered Structure and Thermal Conductive Anisotropy of Photo-crosslinked Columnar Liquid Crystal Films <u>Yoshitaka Takezawa</u> ,Tatsuki Shimizu,Takuji Hirose,Koichi Kodama
9:15	4G02	Development of high-strength materials using hydrogels containing phosphate groups <u>Riku Fukuoka</u> ,Takuma Kureha
9:30	4G03	Development of Highly Elastic Hydrogels by Terminal Functional Groups of Side Chain <u>Yuka Wakayama</u> ,Takuma Kureha
9:45	4G04	Mechanical and electrolyte properties of TetraPEG ion gels cross-linked via metal-ion complexation <u>Yoshika Kimura</u> ,Saki Sawayama,Yuji Kamiyama,Takeshi Ueki,Kenta Fujii
	:	Kureha Takuma, presiding
15:00	4G20	Correlation Analysis of Dielectric Properties at GHz Band, Moisture Sorption Behavior, and Molecular Mobility of Polyimides Using Infrared Spectroscopy <u>Ririka Sawada</u> ,Haonan Liu,Shinji Ando
15:15	4G21	Highly Fluorinated Polyimides Exhibiting Extremely Low Frequency and Humidity Dependence in High-Frequency Broadband (10~330 GHz) Dielectric Properties <u>Haonan Liu</u> ,Ririka Sawada,Shana Yanagimoto,Yoshiyuki Yanagimoto,Shinji Ando
15:30	4G22	Development of Low Dielectric Loss Tangent Polymers through the Utilization of Polysiloxanes with Phenyl Side Groups <u>Riku Takahashi</u> ,Kan Hatakeyama,Yuta Nabae,Teruaki Hayakawa
15:45	4G23	Aggregated Structures and Fundamental Properties of N-shaped Organic Semiconductors with Short Alkyl Chains <u>Masato Mitani</u> ,Shohei Kumagai,Takuya Seki,Go Watanabe,Toshihiro Okamoto

Room H

Mon. May 19

D. BIOPOLYMERS AND BIORELATED POLYMERS

Sawada Toshiki, presiding

9:00	1H01	Stimuli-responsive phase transitions designed on in-cell protein crystals <u>Kosuke Kikuchi</u> ,Misaki Nagama,Junko Tanaka,Haonan Kong,Satoshi Abe,Takafumi Ueno
9:15	1H02	Construction of Artificial Metal-free Peroxidase Using a Protein Cage <u>JIAXIN TIAN</u> ,Basudev Maity,Satoshi Abe,Tiezheng PAN,Tadaomi Furuta,Takafumi Ueno
9:30	1H03	Development of a highly selective mitochondrial targeting peptide with controlled cell penetrating by light irradiation <u>Naoya Abe</u> ,Taha Behroozi Kohlan,Anna Finne Wistrand,Keiji Numata
9:45	1H04	Intracellular drug delivery by artificial viral capsids modified with perfluoro ether peptides <u>Avijit Ghosh</u> ,Yuka Yamamoto,Hiroshi Inaba,Takashi Okazoe,Yu Ota,Kazunori Matsuura
	K	ikuchi Kosuke, presiding
15:00	1H20	Functional control of intracellular microtubules by bundling with tetrameric-protein <u>Soei Watari</u> ,Hiroshi Inaba,Takanari Inoue,Kazunori Matsuura
15:15	1H21	Construction of Peptide Array-Based Classification System for Water-
		Soluble Polymers <u>Yuki Tano</u> ,Toshiki Sawada,Shogo Saito,Masayoshi Tanaka,Mina Okochi,Takeshi Serizawa
15:30	1H22	Yuki Tano, Toshiki Sawada, Shogo Saito, Masayoshi Tanaka, Mina

Tue. May 20

D. BIOPOLYMERS AND BIORELATED POLYMERS

Hata Yuuki, presiding

9:00	2H01	Stabilization of microtubule structures by Tau-derived peptide dimers <u>Hiroshi Inaba</u> ,Yui Hayakawa,Akira Kakugo,Kazunori Matsuura
9:15	2H02	Peroxidase-like nanozyme activity of AuNP-loaded dual pH- and temperatureresponsive dendrimers <u>Chie KOJIMA</u> ,Hai Xia
9:30	2H03	Rational development of ligands that control the function of DNA tetraplexes

		Lutan Liu <u>,Shuntaro Takahashi,</u> Joseph Openy,Guido Clever,Naoki Sugimoto
9:45	2H04	Development of Chimeric Artificial Nucleic Acids (CANA) with Catalytic Target RNA Cleavage Functions Toward the Cancer Therapeutics: Developments suppression of pancreatic cancer malignancy Kosuke Machida,Mion Kino,Hiroki Baba,Yuki Igarashi,CHUAN WANGHSIN,Hieu trong Bui,Masahito Inagaki,Mitsuyo Matsumoto,Yasuyuki Araki,Hironori Hayashi,Eiichi Kodama,Kazuhiko Igarashi, <u>Takehiko Wada</u>
		Kojima Chie, presiding
15:00	2H20	Evaluation of the effect of hydration state on molecular recognition of glycopolymers <u>Yoko Kitsuki</u> ,Masanori Nagao,Hikaru Matsumoto,Masaru Tanaka,Yukiko Tanaka,Takumi Yamaguchi,Yue Zhang,Yoshiko Miura
15:15	2H21	Precise Synthesis of Cyclic Glycopolymers by Post-Click chemistry <u>Yusuke Kumon</u> ,Masanori Nagao,Hikaru Matsumoto,Yoshiko Miura
15:30	2H22	Top-Down Preparation of Cello-oligosaccharides by Phosphoric Acid- Catalyzed Hydrolysis of Cellulose and Their Self-Assembly <u>Yuuki Hata</u> ,Kosuke Yokota,Takeshi Serizawa
15:45	2H23	A Discrimination of glycosaminoglycans by polymer/supramolecular complexes <u>Shun-ichi Tamaru</u>

Wed. May 21

D. BIOPOLYMERS AND BIORELATED POLYMERS

Sawada Toshiki, presiding

9:00	3H01	Evaluation of thermodynamic effects of carbohydrate multivalency on avidity using synthetic discrete glycooligomers <u>Masanori Nagao</u> ,Yu Hoshino,Yoshiko Miura
9:15	3H02	Thermodynamic effects of self-folding behavior of synthetic polymers on the interactions with proteins <u>Masanori Nagao</u> ,Daichi Yoshimatsu,Hikaru Matsumoto,Yoshiko Miura
9:30	3H03	Evaluation of up-conversion in dye-encapsulated cationic liposomes <u>Yuna Imagawa</u> ,Hideki Kawai
9:45	3H04	Development of LYTAC agents via Siglec-E by using glycopolymers <u>Tsuyoshi Ochi</u> ,Masanori Nagao,Hikaru Matsumoto,Hirohiko Ise,Yoshiko Miura
	Na	agao Masanori, presiding
15:00	3H20	Droplets produced by phase separation of aqueous solutions
	01120	comprising multiple zwitterionic polymers Yuji Higaki,Haruna Shiroi
15:15	3H21	comprising multiple zwitterionic polymers
15:15 15:30		comprising multiple zwitterionic polymers <u>Yuji Higaki</u> ,Haruna Shiroi Formation of Robust Films via Interfacial Assembly of Surface- Alkylated Synthetic Nanocelluloses

Thu. May 22

D. BIOPOLYMERS AND BIORELATED POLYMERS

Naito Mitsuru, presiding

9:00	4H01	One-Dimensional Graft Copolymer Assemblies with Controlled Length by Crystallization-Driven Self-Assembly <u>Sorami Yamagiwa</u> ,Tomoki Nishimura
9:15	4H02	Development of amphiphilic polymer anchors for in vivo cell surface engineering <u>Yuka Kitamura</u> ,Tomoki Nishimura
9:30	4H03	Design of UCST-Type Temperature-responsive Polymers That Undergo Liquid-Liquid Phase Separation under Physiological Ionic Strength <u>Takashi Miyata</u> ,Yuto Fujii,Akifumi Kawamura,Nobuyuki Morimoto
9:45	4H04	Preparation of biomolecule-encapsulated nanocapsule by interfacial cross-linking of emulsion <u>Akifumi Kawamura</u> ,Miyu Shimizu,Rika Hirabayashi,Takashi Miyata
	Ν	ishimura Tomoki, presiding
15:00	4H20	Tuning plasmonic activity through one-dimensional assembly of DNA- modified gold nanodiscs <u>Yusuke Yonamine</u> ,Melda Taspika,Hideyuki Mitomo,Kuniharu Ijiro
15:15	4H21	Analysis of Liposomal Membrane Permeability of Sulfobetaine Polymers Sayaka TOITA, Takuto TORIUMI, Nobuyuki MORIMOTO
15:30	4H22	Rearrangement of anionic moiety for diamine-based polyzwitterion toward modulated pH-responsiveness Sachi Ibuki,Tomohiro Umeno,Makoto Oba, <u>Hiroyasu Takemoto</u>
15:45	4H23	Design of enzyme-responsive polymers that show liquid-liquid phase separation Rei Ksunose,Yuka Morioka,Atsushi Maruyama, <u>Naohiko Shimada</u>

Room J

Mon. May 19

D. BIOPOLYMERS AND BIORELATED POLYMERS

Koga Tomoyuki, presiding

9:00	1J01	Fabrication of thermoresponsive cell assembly technology driven by triple helix formation of collagen model peptide <u>Kazuki Yoshida</u> ,Michiya Matsusaki
9:15	1J02	Development of Anisotropic Fibers Using Phase Separation of Collagen and Polyacrylic Acid and Their Application to 3D Tissue culture <u>Asuka Kato</u> ,Koichi Hattori,Shiro Kitano,Michiya Matsusaki
9:30	1J03	Molecular Design of Phosphatidylserine-inspired Polymers for Anti- inflammatory Therapy <u>Kosuke Sato</u> ,Ahmed Nabil,Mitsuhiro Ebara

9:45	1J04	Design of Polymers Containing Artesunate for Ferroptosis Induction <u>Natsumi Ito</u> ,Ahmed Nabil,Koichirou Uto,Mitsuhiro Ebara
	H	omma Kenta, presiding
15:00	1J20	Shape memory hydrogels from poly(γ-glutamic acid)-based polymers Ayumi Toji,Shin-nosuke Nishimura, <u>Tomoyuki Koga</u>
15:15	1J21	Fabrication of Urea-Adsorbing Nanofibers for Wearable Blood Purification Devices <u>Keigo Sugahara</u> ,Makoto Sasaki,Mitsuhiro Ebara
15:30	1J22	Studies of Anion-Exchange Dyes and Durability Evaluation of their Dye-Coupled Polyethylene Film for Retinal Prosthesis <u>Md Chanmiya Sheikh</u> ,Kohei Oka,Takano Nonaka,Kosuke Sonoda,Naotaka Kimura,Tetsuya Uchida
15:45	1J23	Piezoelectric Nanofiber Meshes Based on Mn-Ti Bimetallic Organic Framework for Tumor Treating Field (TTF) <u>Shiqin Dai</u> ,Mitsuhiro Ebara

Tue. May 20

D. BIOPOLYMERS AND BIORELATED POLYMERS

Iwasaki Yasuhiko, presiding

9:00	2J01	Fabrication of senolytic polymer that recognizes senscent cell surface enzyme and forms thin-layer hydrogel <u>Kenta Homma</u> ,Riko Akehi,Michiya Matsusaki
9:15	2J02	Improvement of Escaping Endocytic Uptake by Regulating Hydrophobicity and Charge of Molecular Block That Disrupt Cell Membrane in Response to Tumor Microenvironment <u>Kazuki Moroishi,</u> Masahiko Nakamoto,Michiya Matsusaki
9:30	2J03	Inhibition of Abeta Aggregation by Cholesterol-End-Modified PEG Vesicles and Micelles <u>Shoichiro ASAYAMA</u> ,Shota WATANABE,Motoki UEDA
9:45	2J04	Suppression of oxidative stress by Zn ion delivery into endoplasmic reticulum <u>Motoki Ueda</u> ,Misaki Shimuta,Shoichiro Asayama
		Asayama Shoichiro, presiding
15:00	2J20	Development of foreign antigen delivery system for modification of cancer antigens Shinichi Mochizuki,Momona Ota,Aki Kakinami,Sayaka Oitate
15:15	2J21	Design and biofunctional evaluation of biomembrane hybrid silver nanoparticles <u>Tatsuhiro Yokoyama</u> ,Hiroyuki Harada,Ryosuke Mizuta,Esuke Kanao,Shin-ich Sawada,Kazunari Akiyoshi,Yoshihiro Sasaki
15:30	2J22	Biodistribution of amphiphilic polyphosphodiesters as solubilizers for lipophilic anti-cancer drugs <u>Hitomi Iisaka</u> ,Yota Okuno,Yasuhiko Iwasaki
15:45	2J23	Improving mRNA delivery efficiency to mitochondria using peptides by optimizing poly(A) tail length <u>Naoto Yoshinaga</u> ,Keiji Numata

D. BIOPOLYMERS AND BIORELATED POLYMERS

Wada Takehiko, presiding

9:00	3J01	Anti-cancer effects of epidermal growth factor-immobilized polymeric nanoparticles <u>Shota Yamamoto,</u> Jun Nakanishi
9:15	3J02	mRNA delivery based on physical and chemical stimuli-responsive Zn(II)-dipicolylamine-attached polythiophene <u>Akira Matsumoto,</u> Yui Sasaki,Tsuyoshi Minami
9:30	3J03	Development of drug loading technique for hydrophobic compounds toward extracellular vesicle. <u>Riku Kawasaki</u> ,Ayano Oshige,Ryosuke Mizuta,Yoshihiro Sasaki,Kazunari Akiyoshi,Minoru Suzuki,Takeshi Nagasaki,Keita Yamana,Atsushi Ikeda
9:45	3J04	Temperature-dependent changes in surface potential of oligo(ethylene glycol)-coated gold nanoparticles <u>Hideyuki Mitomo</u> ,Mitomo Nakamura,Kuniharu Ijiro
	Y	onamine Yusuke, presiding
15:00	3J20	Construction and Evaluation of Cancer Cell-Selective Drug Delivery System: Development of Efficient Intracellular Transfection Systems Based on Oligoarginine Combined with PAD derivatives Hirari Kato,Kodai Ishikawa,Mitsuyo Matsumoto,Yasuyuki Araki,Ikuhiko Nakase,Asako Yamayoshi,Kazuhiko Igarashi, <u>Takehiko</u> <u>Wada</u>
15:15	3J21	Development of scaffolding material with blood vessel-like properties to control sustained release of glucose for tissue engineering <u>Panitporn Laowpanitchakorn</u> ,Marie Piantino,Michiya Matsusaki
15:30	3J22	Fabrication of Blood Capillary Micro-Tissues without Fibroblast

Thu. May 22

D. BIOPOLYMERS AND BIORELATED POLYMERS

Nagase Kenichi, presiding

9:00	4J01	Construction of Hybrid Cell Spheroids based on nanogel composite keratin microspheres <u>Hibiki Sakata</u> ,Yuki Tanaka,Wey Yih Heah,Hikaru Takaya,Yohei Yamamoto,Kazunari Akiyoshi,Ryosuke Mizuta,Yoshihiro Sasaki
9:15	4J02	Design of Nanofiber Meshes with Senolytic Drugs for Selective Removal of Senescent cells <u>Tatsuya Saito</u> ,Mitsuhiro Ebara
9:30	4J03	Preparation of photo-responsive poly(dimethylsiloxane) films with changeable surface properties and cell behavior on their surface. <u>Jun Komuratani</u> ,Neiro Kodama,Akifumi Kawamura,Takashi Miyata
9:45	4J04	Effects of Shape-Memory Nanofibers Substrate on Cellular Function <u>Nao Kawata</u> ,Koichiro Uto,Mitsuhiro Ebara
		Kawamura Akifumi, presiding
15:00	4J20	Functional growth factor releasing nanoparticles for effective hepatocyte tissue transplantation <u>Kenichi Nagase</u> ,Marin Nagaoka,Yuto Nakano,Rie Utoh

15:15	4J21	Functional mixed polymer brush for effective separation of mesenchymal stem cell <u>Kenichi Nagase</u> ,Haruno Wakayama,Hideko Kanazawa
15:30	4J22	Comparative Analysis of the Wound Healing Potential of Exosomes <u>Weixu Zhang</u> ,Satoe Obuchi,Akiko Kuramochi,Yuji Teramura

Room K

Mon. May 19

E. POLYMERS AND ENVIRONMENT

Kabe Taizo, presiding

9:00	1K01	Biodegradability of hardly biodegradable polyamides depending on the copolymerization ratio <u>Shota Ando</u> ,Takashi Masaki,Daisuke Kasai,Eri Ueno,Namiko Gibu,Yingjun An,Takako Kikuchi,Maina Yonemura,Dai-ichiro Kato,Atsushi Takahara,Kohzo Ito
9:15	1K02	Biodegradability of hardly biodegradable polyamides by cryogenic- griding <u>Shota Ando</u> ,Daisuke Kasai,Eri Ueno,Megumi Akiyama,Namiko Gibu,Takako Kikuchi,Atsushi Takahara,Kohzo Ito
9:30	1K03	Depolymerization of poly(hydroxyurethane)s to five-membered cyclic carbonates and amines <u>Yasuyuki Mori</u> ,Sho Morinaga,Yoshio Furusho,Takehiro Kawauchi,Takeshi Endo
9:45	1K04	Synthesis of self-catalyzed Networked Polydithiourethanes and their application to easily disassembly adhesives <u>Tsubasa Sakiyama</u> ,Yoshiaki Yoshida
10:00	1K05	Control of material properties through structural design of pressure- responsive block copolymers <u>Yutaro Shimizu</u> ,Ikuo Taniguchi
		Ishii Daisuke, presiding
15:00	1K20	Investigation of Thermal Cross-linking Mechanism and Evaluation of Properties of Microbial Polyesters with Unsaturated Bonds in Their Side Chains <u>Sumire Ogura</u> ,Jobu Tateiwa,Taizo Kabe,Yuki Miyahara,Takeharu Tsuge,Tadahisa Iwata
15:15	1K21	Improving the tensile strength of poly(ethylene succinate) fiber and evaluating enzymatic degradability <u>Kei Ishida</u> ,Taizo Kabe,Sumito Kumagai,Yasumasa Takenaka,Hideki Abe,Tadahisa Iwata
15:30	1K22	Effect of carbon numbers of dicarboxylic acids and diols on marine biodegradation of aliphatic polyesters <u>Yuushou Nakayama</u> ,Tomoka Shuto,Ryo Tanaka,Takeshi Shiono,Shodai Hino,Norioki Kawasaki,Naoko Yamano,Atsuyoshi Nakayama
15:45	1K23	Development of technology for imparting biodegradability to non- degradable copolyesters by introducing degradable monomers <u>Hailin Zhou</u> ,Shuhei Nishizawa,Sho Inagaki,Atsuhisa Miyawaki,Hidetomo Kai,Tomoki Dohi,Chika Harano,Takashi Mihara,Akihiro Koiso

E. POLYMERS AND ENVIRONMENT

Andou Yoshito, presiding

9:00	2K01	Rapid preparation of porous fibers from microbial polyester by partial melt spinning and drawing method after isothermal crystallization near Tg <u>taizo kabe</u> ,kohei toyosaki,tadahisa iwata
9:15	2K02	Development of Novel marine biodegradable polymer blends containing poly(ethylene succinate) copolymers <u>Sumito Kumagai</u> ,Yasumasa Takenaka,Motosuke Imada,Hideki Abe,Tomohiro Hiraishi,Noriyuki Asakura,Senri Hayashi
9:30	2K03	Biodegradation of P(3HB) by novel P(3HB)-degrading bacteria: effect of addition of poly(feruclic acid-co-glycolic acid) <u>Daisuke Ishii</u> ,Mayu Tsuruga,Tomoko Seyama,Haruhiko Masaki,Masatake Kanai
9:45	2K04	Development of Oligosaccharide-Containing Block Copolymer as Additives for Toughening of Cellulose Acetate <u>Sho Fukushima</u> ,Takaya Kobayashi,Lang Weeranuch,Kenji Takahashi,Takuya Yamamoto,Kenji Tajima,Li Feng,Toshifumi Satoh,Takuya Isono
10:00	2K05	Dissolution and Reaction of Cellulose by the Addition of Bulky Organosuperbase <u>Tatsuya Nishida</u> ,Daisuke Hirose,Katsuhiro Maeda
	Is	shii Daisuke, presiding
15:00	2K20	Selective Deuteration of Bacterial Cellulose in Media containing Deuterium <u>Rintaro Furukawa</u> ,Takuya Mtsumoto,Takashi Nishino
15:15	2K21	Dehydration Condensation of Chitin Oligosaccharides by Carbon Catalysts with Weak Acid Sites <u>Takuya Sagawa,</u> Tatsuki Yasuda,Mineo Hashizume
15:30	2K22	The cockscomb gel obtained from a cockscomb extract <u>Hironori Izawa</u> ,Tomohiro Hasebe,Masaki Nakai
15:45	2K23	Improvement in the Mechanical Properties of Cellulose Composites via the Interactions Between the Polymer Matrix and Fillers <u>Yuta Kameya</u> ,Kenji Yamaoka,Ryohei Ikura,Akihide Sugawara,Hiroshi Uyama,Yoshinori Takashima

Wed. May 21

E. POLYMERS AND ENVIRONMENT

Kitayama Yukiya, presiding

9:00	3K01	Synthesis of novolacs from lignoanisoles based on molecular designs in organic systems <u>Ritsuki Matsuoka</u> ,Mitsuru Aoyagi,Harumi Sato
9:15	3K02	Functionalization of sugar-based polycarbonates by block- copolymerization and their ammonolysis behaviors in aqueous media <u>Kazuaki Rikiyama</u> ,Tatsuo Taniguchi,Daisuke Aoki
9:30	3K03	Preparation and low-temperature formability of core-shell nanoparticle baroplastics

		<u>Takaya Okazaki</u> ,Fanny Gladys,Ikuo Taniguchi
10:00	3K05	Environmental Degradation of Prooxidant-based Polyolefins <u>Adchara PADERMSHOKE</u> ,Yingjun AN,Nguyen V. THINH,Yutaka KOBAYASHI,Hiroshi ITO,Atsushi TAKAHARA
	1	Ando Shota, presiding
15:00	3K20	Analysis of the biodegradation behavior of microplastics derived from biodegradable plastics in the marine environment <u>Takako KIKUCHI</u> ,Hironori TAGUCHI,Nao OSAKA,Keiji TANAKA
15:15	3K21	Decomposition of GFRP resin by using atmospheric pressure microwave heating <u>Kazutoshi Ikenaga</u> ,Kinari Oda,Katsuki Kusakabe
15:30	3K22	Synthesis of Degradable Polymer Capsules by Interfacial Photocycloaddition Polymerization <u>Yukiya Kitayama,</u> Misato Yamashita,Atsushi Harada
15:45	3K23	Enhancement of Enzyme Stability and Degradation Promotion of Enzyme-Embedded Poly(Lactic Acid) through Thermal Processing under a Nitrogen Atmosphere <u>Qiuyuan Huang</u> ,Satoshi Kimura,Tadahisa Iwata

Thu. May 22

F. INDUSTRIAL POLYMERS AND TECHNOLOGY

Koyanagi Jun, presiding

9:00	4K01	Innovation of food textures through laser-based additive manufacturing of food using polysaccharides and proteins <u>Kazuma MIyazaki</u> ,Makoto Takemasa
9:15	4K02	Food texture analysis based on deep learning using dental model and 6-axis force torque sensor in the compression measurements <u>Ryo Sugihara</u> ,Makoto Takemasa
		Takemasa Makoto, presiding
9:30	4K03	Prediction of strength and durability for polymer materials based on entropy <u>Jun Koyanagi</u> ,Yutaka Oya
9:45	4K04	Design and Pneumatic Deformation of Arrowhead-shaped Auxetic Ring Structure <u>Kaisei Kamiya,</u> Kasuma Morikawa,Hiroshi Endo
10:00	4K05	Using 4D Printing and Hydrogel Technologies to Create Biomimetic Soft Robot <u>Hossain Pintu</u> ,Jun Ogawa,Hidemitsu Furukawa
		Tamai Toshiyuki, presiding
15:00	4K20	Development of polylactic acid molding and processing technology for the fabrication of hollow microneedles for extraction of interstitial fluid from subcutaneous <u>Kotaro Iwamoto</u> ,Yutaro Chino,Yusuke Ito,Reina Yoshizaki,Naohiko Sugita,Madoka Takai
15:15	4K21	Degradation Properties of Polyimide for Noble Gas Filter <u>Mina Amo</u> ,Takahisa Matsuzaki,Hitoshi Narita,Tomoharu Hashimoto,Yasutaka Aoki,Daisuke Amemiya
		Takai Madoka, presiding
15:30	4K22	Control of mechanical properties of polypropylene using beta- nucleating agent

Yuji Matsumoto, Shogo Masai, Naoto Ueda

15:45 4K23 Surface Modification of Polyethylene Naphthalate Substrates by Codeposition of Polydopamine with Polyethyleneimine and its Application in Electroless Deposition Toshiyuki Tamai, Mitsuru Watanabe, Yoshio Nakahara, Setsuko Yajima

Room S

Tue. May 20

INVITED LECTURES

Satoh Kotaro, presiding

15:00	2SS1IL	Polymer Synthesis for a Sustainable Society: Perspective beyond Challenges <u>Mitsuo Sawamoto</u>
15:30	2SS2IL	Water-soluble Helical Poly(quinoxaline)s: Screw-sense Induction and Chiral Functions <u>Michinori Suginome</u>
16:00	2SS3IL	Progress of Supramolecular Polymerization: Towards a Sustainable Future <u>Takuzo Aida</u>

Wed. May 21

INVITED LECTURES

Mayumi Koichi, presiding

15:00	3SS1IL	Polymer Crystallization <u>Toshiji Kanaya</u>
15:30	3SS2IL	Recommendation of Small-angle Scattering Research <u>Mitsuhiro Shibayama</u>
16:00	3SS3IL	Viscoelastic effects on Glassy Materials Mikihito Takenaka

Thu. May 22

INVITED LECTURES

Sakai Takamasa, presiding

15:00	4SS1IL	From Slide-Ring Gel to Tough Polymers <u>Kohzo Ito</u>
15:30	4SS2IL	Creation of Nanocomposite Hydrogel: Its Essence and Developments <u>Kazutoshi Haraguchi</u>
16:00	4SS3IL	New Developments in Double Network Materials Jian Ping Gong