Room A

Wed. May 25

70th Anniversary Lecture

Madoka Takai, presiding

9:30 1A03IL Smart Polymer Technologies for Global Health <u>Mitsuhiro Ebara</u>

Michiya Matsusaki, presiding

10:15 1A06IL Development of high-performance bioplastics based on innovative heterocycle designs Tatsuo Kaneko

Takashi Miyata, presiding

11:00 1A09IL Bioenergetic systems working in nature and polymeric sol-gel design

<u>Kosuke Okeyoshi</u>

Toshiaki Ougizawa, presiding

12:30 1A12IL Innovative Adhesion Technology Based on 4-dimensional Multiscale Analysis of Interfaces Keiji Tanaka

Miyuki Harada, presiding

13:15 1A15IL Analysis of higher order structures of mesogenic epoxy resins having high thermal conductivities cured on various adhesive substrates <u>Yoshitaka Takezawa</u>

Toshiyuki Oyama, presiding

14:00 1A18IL Material design and functionalization of high heat resistant resins Keiko Ohtsuka

Award Lecture

Shinji Sugihara, presiding

14:45 1A21AL Supramolecular Assemblies and Polymer Recognition Based on Polygonal Prism-Shaped Macrocyclic Pillar[n]arenes <u>Tomoki Ogoshi</u>

Kazunori Sugiyasu, presiding

15:30 1A24AL Creation of Crystalline, Porous, Organic Materials Using Directional Hydrogen Bonds Ichiro Hisaki

Masao Doi, presiding

16:15 1A27AL Multiscale Modeling of Polymers - Developments and Perspectives <u>Kurt Kremer</u>

Award Lecture

Hiroshi Jinnai, presiding

9:30 2A03AL Functionalization of Block Polymers: From Fundamental Understanding to Advanced Technologies <u>Richard J. Spontak</u>

Invited Lecture

Kazunari Akiyoshi, presiding

10:15 2A06IL A Facile Strategy for Enhanced Interfacial Adhesion and Mechanical Properties of Composite Materials by Rationally Designed Polymer Compatibilizers Heun Young Seo,Kie Yong Cho,<u>Ho Gyu Yoon</u>

70th Anniversary Lecture

Makoto Ouchi, presiding

11:00 2A09IL Precision Macromolecular Design toward Elucidation of Polymer Science Jeremiah A. Johnson

Award Lecture

Takeshi Shiono, presiding

12:30 2A12AL Synthesis of Functional Polymers via Living Anionic Polymerization of Novel Monomers <u>Takashi Ishizone</u>

Masao Tomikawa, presiding

13:15 2A15AL Development of Functional Polymers for Energy Storage through Practical Materials Informatics <u>Kenichi Oyaizu</u>

70th Anniversary Lecture

Atsushi Maruyama, presiding

14:00 2A18IL Biomimetic Polymer-based Coloring Material <u>Michinari Kohri</u>

Takashi Nishino, presiding

16:15 2A27IL Cellulose nanocomposites for sustainable development in the context of polymer science Lars A Berglund

Award Lecture

Motohiro Munakata, presiding

9:30 3A03AL Discovery of Island-nanomatrix Structure of Natural Rubber and Its Application <u>Seiichi Kawahara</u>

Kazuo Sakurai, presiding

10:15 3A06AL Mechanisms of Structure Evolution in Polymer Crystallization and Its Melting <u>Akihiko Toda</u>

70th Anniversary Lecture

Yukikazu Takeoka, presiding

11:00 3A09IL Multiaxial deformation and crack growth dynamics of soft materials

<u>Kenji Urayama</u>

Hideaki Yokoyama, presiding

12:30 3A12IL Structural analysis of branched and cyclic polymers and correlation with their functions Ken Terao

Yoshiro Kaneko, presiding

13:15 3A15IL Design of polymeric materials based on element-blocks for a new development of inorganic polymers <u>Kensuke Naka</u>

Tsutomu Yokozawa, presiding

14:00 3A18IL Design of Polymer Reactions and Mechanofunctional Polymers Based on Dynamic Covalent Chemistry <u>Hideyuki Otsuka</u>

Room B

Wed. May 25

70th Anniversary Lecture

Akihisa Kakimoto, presiding

9:30 1B03IL Japan's Green Growth Strategy Through Achieving Carbon Neutrality in 2050 <u>Kei Kawahara</u>

Hiroyuki Umetani, presiding

10:151B06ILDecarbonisation-Oriented Managemen x Corporate Value
Enhancement The Vision Required for Japanese Firms

<u>Issui Ihara</u>

Masao Tomikawa, presiding

11:00 1B09IL Challenges and efforts for building "Sustainable Carbon Society" <u>Mina Kanda</u>

Toshio Tada, presiding

12:30 1B12IL Regulatory Science for the Solution focused Microplastics Risk Governance -Marine Environment, Plastic Waste Management and Polymer Safety Assessment Kenkichi Fujii

Shuichiro Ogawa, presiding

13:15 1B15IL Construction of a Circular Economy Through Plastic Recycling <u>Toshiaki Yoshioka</u>

Masakazu Ito, presiding

14:00 1B18IL Unitika's Bioplastics development and Future Prospects Shoji Okamoto

Toru Doi, presiding

14:45 1B21IL Sustainability Measurement Framework of Sumitomo Rubber Industries, Ltd. <u>Kiyoshige Muraoka</u>

Satoshi Hamura, presiding

15:30 1B24IL Idemitsu Kosan's efforts to realize a sustainable society <u>Hiroto Matsumoto</u>

Seiji Ota, presiding

16:15 1B27IL BASF Sustainability Management <u>Takeshi Irie</u>,Yuji Uchiyama,Dai Watanabe,Hiroki Yamano

Thu. May 26

70th Anniversary Lecture

Makoto Nishimoto, presiding

- 9:30 2B03IL Toray's R & D activity to realize a sustainable society <u>Yuichiro Iguchi</u> Akiyoshi Kusaka, presiding
- 10:15 2B06IL Resource Circulation Utilizing Plastic Modifier <u>Hironobu Tokunaga</u>,Satoru Teranishi,Mikihito Takenaka

Hiroaki Kuwahara, presiding

11:00 2B09IL Asahi Kasei's Initiatives for Carbon Recycle Budianto Nishiyama

Fri. May 27

70th Anniversary Lecture

Shigeru Yao, presiding

9:30 3B03IL Surface and Interface Characterization of Polymers-Past, Present and Future Atsushi Takahara

Kenichi Ueda, presiding

10:15 3B06IL Sustainable and circular biopolymer design based on nature and natural material. - An example of spider silk - <u>Keiji Numata</u>

Masayuki Hanakawa, presiding

11:00 3B09IL Research activities of Membrane Center in Kobe University for realization of carbon neutrality Hideto Matsuyama

Naoko Yoshie, presiding

12:30 3B12IL Process Innovation and Application of Process Informatics <u>Kimito Funatsu</u>

Makoto Nishimoto, presiding

13:15 3B15IL The data-driven tire materials development <u>Hirokazu Sato</u>

Masakazu Kitano, presiding

14:00 3B18IL Biodegradable Plastics of Mitsubishi Chemical: A Solution for Realizing Circular Society <u>Hiroshi Sano</u>

Yoshiki Nakagawa, presiding

14:45 3B21IL The future of sports and lifestyles pioneered by polymer innovation Kenichi Harano

Room C

Wed. May 25

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Daisuke Takeuchi, presiding

10:00	1C05	ROMP of Norbornadiene Dimers Containing Cyclopropane Ring and Post-Polymerization Modification <u>Shin-ichi Matsuoka</u> ,Kazuki Hase,Masato Suzuki
10:15	1C06	Synthesis and physical properties of cyclic olefin (co)polymers by ring-opening metathesis (co)polymerization of norbornene derivative with spirofluorene moiety. <u>Saki Ishii</u> ,Yoshiya Ota,Shin-ichi Matsuoka,Masato Suzuki
10:30	1C07	Synthesis of poly(alkoxycarbonylmethylene)s containing amide- linkage and investigation of their thermophysical properties Itsuki Katashima,Nagisa Yano, <u>Hiroaki Shimomoto</u> ,Tomomichi Itoh,Eiji Ihara
10:45	1C08	Polymerization of diazoacetates initiated by Pd complexes with diphosphine and diamine ligand Yuto Miyano, <u>Hiroaki Shimomoto</u> ,Tomomichi Itoh,Eiji Ihara

Shin-ichi Matsuoka, presiding

11:00	1C09	Synthesis of cis-1,4-Polybutadiene by Coordination Polymerization of Butadiene derived from Biomass <u>Yuhi Sasakawa</u> ,Tomoyuki Toda,Katsuhiko Takenaka,Kosuke Yamaguchi,Yoshinao Nakagawa,Kei Nishii,Yo Nakamura
11:15	1C10	Butadiene Polymerization by Dinuclear Nickel Complex with Dipyridylpyridazine Ligand <u>Yusei Miura</u> ,Daisuke Takeuchi
11:30	1C11	Isomerization Polymerization of 2-Alkylnorbornenes by Palladium Catalysts Ayano Suda,Kanane Kohama <u>,Daisuke Takeuchi</u>
		Hiroaki Shimomoto, presiding
12:30	1C12	Chain-Transfer Approach for Terminal Functionalization of Polycarbonate Synthesized by Alternating Copolymerization of CO2 and Epoxide <u>Haruki Nagae</u> ,Saki Matsushiro,Kazutaka Sakamoto,Takanori Iwasaki,Kyoko Nozaki,Kazushi Mashima
12:45	1C13	Synthesis and Analysis of Sequence-Regulated Ethylene-Styrene Copolymers by Olefin Metathesis Polymerization of Sequence- Regulated Oligomers <u>Kenta SOMA</u> ,Mineto UCHIYAMA,Mitsuo HARA,Takahiro SEKI,Yuichi MASUBUCHI,Masami KAMIGAITO
13:00	1C14	Synthesis of fluorine-containing poly(diphenylacetylene)s with high gas permeability <u>Toshikazu Sakaguchi,</u> Misa Kuroiwa,Tamotsu Hashimoto
13:15	1C15	Synthesis and Ultra-Remote Helicity Control of Water-Soluble Poly(biphenylylacetylene)s Bearing an Optically Active Binaphthyl Pendant at the Side-Chain End <u>Koshi Nakamura</u> ,Tomoyuki Ikai,Eiji Yashima
13:30	1C16	Helicity Control of Poly(biphenylylacetylene) Derivatives Bearing Amino Acid Residues and Their Use as Chiral Stationary Phases <u>Shogo Okuda,</u> Tomoyuki Ikai,Eiji Yashima
		Toshikazu Sakaguchi, presiding
13:45	1C17	Polymerization of diphenylacetylenes using molybdenum(V) chloride and organotin reagents <u>Tsuyoshi Taniguchi</u> ,Mami Miyairi,Tatsuya Nishimura,Katsuhiro Maeda
14:15	1C19	Synthesis of telechelic poly(phenylacetylene)s using diazo esters as a terminator <u>Kensuke Echizen,</u> Mikuri Saito,Tsuyoshi Taniguchi,Tatsuya Nishimura,Katsuhiro Maeda
14:30	1C20	Mechanistic Analysis of the Polymerization of Phenylacetylenes with Molybdenum(V) Chloride and Tungsten(VI) Chloride <u>Shingyo Sueyoshi</u> ,Tsuyoshi Taniguchi,Tatsuya Nishimura,Katsuhiro Maeda
14:45	1C21	Development of the Improved Method for Polymerization of Diphenylacetylenes with Niobium Catalysis <u>Daisuke Nakaguchi</u> ,Tsuyoshi Taniguchi,Tatsuya Nishimura,Katsuhiro Maeda
		Shigeru Yamago, presiding
15:00	1C22	Radical Polymerizations of Isopropenyl Boronic Acid Monomers:

5:00 1C22 Radical Polymerizations of Isopropenyl Boronic Acid Monomers: Positive Effects of the Boron Substituent Design and Salt Additive on Polymerization Behaviors

		<u>Hiroshi Suzuki</u> ,Tsuyoshi Nishikawa,Makoto Ouchi
15:15	1C23	Reversible-Deactivation Radical Polymerization of Alkenyl Boronate: Precise Polymer Syntheses via Controlled Polymerization and Transformation of Boronyl Side Chains <u>Tomoaki Kanazawa</u> ,Tsuyoshi Nishikawa,Makoto Ouchi
15:30	1C24	Backbone Degradation of Methacrylate Polymers by Trigger Design <u>Taichi Kimura</u> ,Makoto Ouchi
	Ts	uyoshi Nishikawa, presiding
16:00	1C26	Synthesis and Rheological Properties of Block Polyacrylate Copolymers with Linear-Hyperbranched Structures <u>Masato Kibune</u> ,Hiroshi Watanabe,Yumi Matsumiya,Shigeru Yamago
16:15	1C27	Synthesis of hyperbranched polyacrylamide having both controlled branching structure and controlled stereoregularity <u>Keisuke Shibahara</u> ,Yuji Imamura,Masato Kibune,Shigeru Yamago
16:30	1C28	Synthesis of hyperbranched polyacrylates containing methyl methacrylate by ab-initio emulsion radical copolymerization <u>Yuhan JIANG</u> ,Masato KIBUNE,Masatoshi TOSAKA,Shigeru YAMAGO

Thu. May 26

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Yasuhiro Kohsaka, presiding

9:30	2C03	Effect of Branching Structure on Aggregate Morphology of Amphiphilic Hyperbranched Diblock Copolymers <u>Kana GOTO</u> ,Yangtian LU,Masatoshi TOSAKA,Shigeru YAMAGO
9:45	2C04	Understanding and Prediction of Monomer Reactivity Ratios in Radical Copolymerization Using Machine Learning Nanyi Zhu, <u>Masatoshi Tosaka</u> ,Shigeru Yamago,Hiroshi Mamitsuka
10:00	2C05	Synthesis of Polymers with Various Architectures from Glycerol- Derived Cyclic Vinyl Ethers <u>Riko Kashima</u> ,Tomohiro Kubo,Kotaro Satoh
10:15	2C06	Synthesis of Multi-Arm End-Functionalized Poly(vinyl alcohol) for Novel High Performance Hydrogels <u>Gaishi Murakami</u> ,Tomohiro Kubo,Kotaro Satoh
10:30	2C07	Synthesis of Degradable Vinyl Polymers by Using Cyclic Thiocarbonyl Comonomers Derived from Lactides <u>Ryoya Kamiki</u> ,Tomohiro Kubo,Kotaro Satoh
	Ko	taro Satoh, presiding
10:45	2C08	Chemically recyclable polystyrene derivatives capable of depolymerization induced by the hydrolysis of side groups: Monomer design for rapid depolymerization <u>Yota Chiba</u> ,Yasuhiro Kohsaka
11:00	2C09	Main chain scission of vinyl polymers driven by retro-aldol reaction of β -keto alcohol skeletons over the backbone and side groups <u>Akane Kazama</u> , Patrick Theato, Yasuhiro Kohsaka

11:15	2C10	Synthesis of degradable vinyl polymers by radical copolymerization of allyl alcohol and cyclic ketene acetal <u>Kaho Toyama</u> ,Yasuhiro Kohsaka
11:30	2C11	Synthesis and Characterization of Spherical Poly (acrylic acid) with High Density Crosslinking <u>Ryohei Ono</u> ,Shota Fujii,Kazuo Sakurai
	I	Hironobu Watanabe, presiding
12:30	2C12	Polymerization using radically active species generated by solution plasma <u>Yang Zhou</u> ,Yuta Nishina
12:45	2C13	Radical polymerization using natural deep eutectic solvents <u>Shingo YUKI</u> ,Hideharu MORI
13:00	2C14	Radical polymerization of vinyl cinnamate for the control of intramolecular cyclization <u>Miyuki Oshimura</u> ,Shodai Enoki,Tomohiro Hirano,Koichi Ute
13:15	2C15	Fabrication of polymer materials using monomers with polymerization group and metal complex toward regulating the metal composition Shigehito Osawa,Sosuke Kurokawa,Hidenoru Otsuka
	1	Miyuki Oshimura, presiding
13:30	2C16	Radical Polymerization Using Carbon-Heteroatom Double Bond: Synthesis of Novel Polymers Containing Heteroatoms in the Main Chain <u>Hironobu Watanabe</u> ,Masami Kamigaito
13:45	2C17	Radical Polymerization Behavior and Regioselective Exchange Reactions of Acylhydrazone Monomers <u>Akito Moriya</u> ,Kounosuke Ohata,Daisuke Nagai
14:15	2C19	Cosolvency of Amphiphilic Alternating Copolymers Prepared by Controlled Radical Polymerization Kazuki Yano, <u>Shohei Ida,</u> Daichi Ida,Shokyoku Kanaoka
14:30	2C20	Precision Syntheses of HEMA-Propylacrylamide Alternating Copolymers: Effects of Sequence and Side-Chain Structures on Thermoresponsive Behaviors in Water <u>Xiaoyan Xu</u> ,Makoto Ouchi
	I	Daisuke Nagai, presiding
14:45	2C21	Molecular Design of (Meth)Acrylamide Monomers Carrying Saccharin-Like Pendant for Control of Alternating Sequence and Effective Side-Chain Transformation <u>YUEHANG PAN</u> ,Makoto Ouchi
15:00	2C22	Sequence-Specific Radical Copolymerizations of Active Ester (Meth)Acrylate with Benzyl Vinyl Ether <u>Keita Kuroda</u> ,Makoto Ouchi
15:15	2C23	Study on the termination mechanism of radical polymerization by de-carbonylation reaction <u>Yasuyuki Nakamura</u>

Fri. May 27

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Tsuyoshi Nishikawa, presiding

9:30	3C03	Novel polymerization reactions based on cyclotrimerization of one vinyl monomer and two aldehydes: tandem polymerization and sequence regulated polymer synthesis <u>Tadashi Naito</u> ,Arihiro Kanazawa,Sadahito Aoshima
9:45	3C04	Efficient linking of two epoxides using potassium thioacetate in water and its use in polymerization <u>Takanori Kishida</u> ,Kazunori Sugiyasu
10:00	3C05	Development of New Initiators with Alkyne Functionality for Click Living Polymerization <u>Satoshi Sakai</u> ,Tomohiro Kubo,Kotaro Satoh
10:15	3C06	Solid-state polymerization of 1,3,5-tris(buta-1,3-diynyl)benzene. <u>Taiki Ietsune</u> ,Mariko Tsutsumi,Ayako Shinozaki,Kazuki Sada
	Ko	usuke Tsuchiya, presiding
10:30	3C07	Direct Arylation Polymerization of Heteroarenes with Dichloroarenes: Development of Highly Efficient Palladium Catalysts <u>Masayuki Wakioka</u> ,Takumi Nakazato,Yooichiroh Maruyama,Masatsugu Ayabe
10:45	3C08	Synthesis and Reactions of Homoditopic Nitrile N-Oxides Comprising Imide Skeletons as a Spacer <u>Yasuhito Koyama</u> ,Souma Ooba,Noriyuki Nakajima,Masahiro Hamada,Toshikazu Takata
11:00	3C09	Synthesis of commodity polyesters with chemical degradability by conjugate substitution reaction <u>Kinari Tsurumi</u> ,Yasuhiro Kohsaka
11:15	3C10	Lipase-catalyzed synthesis of linear aliphatic polyester bearing amino groups in side chains <u>Yuya Oyama</u> ,Naruki Kurokawa,Atsushi Hotta
11:30	3C11	Reexamination of reactivity of N-Carboxy amino acid anhydrides 98. Rejection of the side reaction theory in the primary or tertiary amine initiated polymerization <u>Hitoshi Kanazawa</u> ,Aya Inada
	Ma	asayuki Wakioka, presiding
12:30	3C12	Synthesis of polyserine without protection of the side chain by chemoenzymatic polymerization <u>Kayo Terada</u> ,Takumi Watanabe,Shogo Takemura,Hiroyasu Masunaga,Kousuke Tsuchiya,Keiji Numata
12:45	3C13	Synthesis of polycarbonate by means of polycondensation of diol ester and dialkyl carbonate <u>Takayoshi KATOH</u> ,Maai SASO,Yoshihiro OHTA,Tsutomu YOKOZAWA
13:00	3C14	Additive-controlled topology switching from cyclic polymer to linear polymer in unstoichiometric polycondensation using excess two bromoarylenes connected to functional group <u>So MIYAZAKI</u> , Takeru KAMIGAWARA, Yoshihiro OHTA, Tsutomu YOKOZAWA
13:15	3C15	Functionalization of polyphenylene at both ends by means of Suzuki-Miyaura coupling reaction and polymerization after Kumada-Tamao catalyst-transfer condensation polymerization <u>Reo NITTO</u> ,Yu TOKITA,Yoshihiro OHTA,Tsutomu YOKOZAWA

Yoshihiro Ohta, presiding

13:30	3C16	Polyaddition reaction of bisoxetane with tellurium tetrachloride and properties of the obtained polymers <u>Ryusei Hanaki</u> ,Hiroto Kudo,Hiriyuki Maekawa
13:45	3C17	Synthesis of polyimines from aliphatic diamines by oxidative polymerization using ionic liquid and oxygen <u>Masaru Yoneyama</u> ,Haruka Simoda,Takeshi Yamanobe
14:15	3C19	Polymer Structure Control in Friedel-Crafts Polycondensations with 4-Methoxytrifluoroacetophenone <u>Kazuya Matsumoto,</u> Masakazu Wakana,Mitsutoshi Jikei
14:30	3C20	Porosity control of porous cyclohexyl epoxy resin <u>Shuma Shinoda</u> ,Reiko Saito
14:45	3C21	Dispersity control of silica nanocapsules in epoxy resin by surface modification <u>Keisuke Inagaki</u> ,Yuichi Iki,Minghao Lu,Reiko Saito

Room D

Wed. May 25

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Shunsuke Ohtani, presiding

10:00	1D05	Comparison of Photophysical Properties between Group 13 Dialdiminate Complexes with Different Central Atoms <u>Yuto Aoyama</u> ,Yuki Sakai,Shunichiro Ito,Kazuo Tanaka
10:15	1D06	Synthesis of Functional Luminescent Conjugated Polymers Based on Typical Element Complexes of N2-Type Ligands <u>Shunichiro Ito</u> ,Kazuo Tanaka,Yoshiki Chujo
10:30	1D07	Synthesis and luminescent property of chain-end functionalized polymer with tetraphenylethylene unit <u>Kazuki Horibe</u> ,Raita Goseki,Takashi Ishizone
	Ka	azuaki Kato, presiding
10:45	1D08	Anionic copolymerization of 1-phenyl-1,3-butadiene and 1,1- diphenylethylene <u>Kotaro Koike</u> ,Yoshito Itaya,Hamin Kim,Raita Goseki,Takashi Ishizone
11:00	1D09	Self-alternating polymerization of bifunctional monomers with two different reactive vinyl groups Yoshito Itaya,Hamin Kim <u>,Raita Goseki</u> ,Takashi Ishizone
11:15	1D10	Controlled synthesis of cyclic alternating smart polymers via ring- expansion RAFT copolymerization <u>Yuna Okuno</u> ,Jin Motoyanagi,Masahiko Minoda
11:30	1D11	Development of functionalized cyclic polymers synthesized by ring-expansion RAFT polymerization <u>Jin Motoyanagi</u> ,Hiroki Fujii,Masahiko Minoda
	Aı	rihiro Kanazawa, presiding
12:30	1D12ILY	Functional polymers based on cyclic monomers with dynamic nature

		<u>Daisuke Aoki</u>
13:00	1D14	Polymer topology effect on cyclized Pluronic surfactant micelles <u>Tomohisa Watanabe</u> ,Daichi Ida,Akiyuki Ryoki,Takuya Yamamoto
13:15	1D15	Structural specificity of cyclic polyoxazoline / Pd(II) complex and its derivatives <u>Ryo Itoga</u> ,Ren-Hua Jin
	Та	kashi Ishizone, presiding
13:30	1D16	On-surface synthesis of graphene nanoribbon at low temperature <u>Takahiro Kojima</u> ,Karan Patel,Shunpei Nobusue,Hiroshi Sakaguchi
13:45	1D17	Precise synthesis of graphene nanoribbons using metal-organic frameworks <u>Takashi Kitao</u> ,Kazuki Nakata,Takashi Uemura
14:15	1D19	Synthesis and Host–Guest Capability of Silicon-Briged Pillar[<i>n</i>]arenes <u>Shunsuke Ohtani</u> ,Kenichi Kato,Tomoki Ogoshi
14:30	1D20	Molecular Design of Polyrotaxanes toward Advanced Resins <u>Kazuaki Kato</u> ,Kohzo Ito,Ken Kojio,Taiki Hoshino
	Та	kaya Terashima, presiding
14:45	1D21	Synthesis and evaluation of multicyclic polystyrene as elastomer additive <u>Yamato Ebii</u> ,Yoshinobu Mato,Takuya Isono,Takuya Yamamoto,Kenji Tajima,Hironori Marubayashi,Hiroshi Jinnai,Toshifumi Satoh
15:00	1D22	Synthesis and Luminescent Property of α-Cyanostilbene- Containing Pillar[5]arene <u>Keigo Nakagawa</u> ,Shunsuke Ohtani,Kenichi Kato,Tomoki Ogoshi
15:15	1D23	Synthesis of cinchona-squaramide polymers by Sonogashira- Hagihara coupling polymerization and their application to asymmetric synthesis <u>Naoki Haraguchi</u> ,Hiroya Sasaki,Toru Amaya,Shinichi Itsuno
15:30	1D24	Synthesis of various poly (ether ketone) block copolymers by Friedel-Crafts reaction in [bmim] / AlCl ₃ solvent system and their properties <u>Mizuki SAITO</u> ,Takeshi YAMANOBE,Masaru YONEYAMA
	Ke	nichi Kato, presiding
16:00	1D26ILY	Development of Near-Infrared Emissive π-Conjugated Polymers Based on Hypervalent Compounds <u>Masayuki Gon</u> ,Kazuo Tanaka,Yoshiki Chujo
16:30	1D28	Synthesis of stimuli-responsive polymers based on hypervalent bond <u>Yusuke Morisaki</u> ,Masayuki Gon,Kazuo Tanaka
16:45	1D29	Construction and evaluation of π-conjugated scaffolds incorporating hypervalent bismuth compounds <u>Kazuya Tanimura</u> ,Masayuki Gon,Kazuo Tanaka

Thu. May 26

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Tsuneaki Sakurai, presiding

9:30	2D03	Synthesis and Optical Properties of Pyrene-Substituted Carborane Anions <u>Takumi YANAGIHARA,</u> Junki OCHI,Kazuo TANAKA
9:45	2D04	Synthesis of Novel Luminescent Materials Based on Boron-Fused Azomethine Complexes
		Misato Kanjo, Masayuki Gon, Kazuo Tanaka
10:00	2D05	Synthesis of Conjugated Polymers Based on Luminescent Tropolonate Boron Complexes and Their Optical Properties <u>Hikari Ogoshi,</u> Hiromasa Takahashi,Shunichiro Ito,Kazuo Tanaka
10:15	2D06	Syntheses and optical properties of conjugated polymers containing a novel benzoxaborin framework <u>Shuhei Morimoto</u> ,Kazuya Tanimura,Masayuki Gon,Kazuo Tanaka
	:	Shunichiro Ito, presiding
10:30	2D07	Luminescence behavior and self-assembled structures of random copolymers consisting of dipeptides and AIE molecules <u>Ryo YONENUMA</u> ,Hideharu MORI
10:45	2D08	Photophysical properties of self-encapsulated conjugated molecular wires with controlling tacticity and insulating chain length <u>Yukino Egawa,</u> Tsuneaki Sakurai,Masaki Shimizu
11:00	2D09	Morphology Control via RAFT Emulsion Polymerization-Induced Self-Assembly: Systematic Investigation of Core-Forming Blocks Atsushi Takashima,Yasushi Maeda, <u>Shinji Sugihara</u>
11:15	2D10	Precise synthesis and characteristic properties of poly(vinyl ether)s with pendant ionic liquid structures as thermosensitive segments <u>Naoki Matsuo</u> ,Arihiro Kanazawa,Sadahito Aoshima
11:30	2D11	Development of self-healing and high refractive index materials by radical polymerization of an imidazole-containing S-vinyl monomer and metal complexation <u>Kaori MORIKAWA</u> ,Ibuki WATABABE,Sadaki SAMITSU,Hideharu MORI
	•	Jin Motoyanagi, presiding
12:30	2D12	Sub-10 nm Lamellar Microphase Separation Materials of Cationic Random Copolymers <u>Takaya Terashima</u> ,Sahori Imai
12:45	2D13	Design and Microphase Separation of Amphiphilic Polymers Bearing Quaternary Ammonium Cation Pendants <u>Ryota Sujita</u> ,Sahori Imai,Makoto Ouchi,Takaya Terashima
13:00	2D14	Synthesis and Physical Properties of Highly Stable π-Conjugated Polymer Hybrid Films with Luminophore-Integrated POSS <u>Yusuke Taguchi</u> ,Masayuki Gon,Kazuo Tanaka

Award Lecture

Takuma Yasuda, presiding

13:30 2D16AL Quantitative Analysis of Stereoscopic Molecular Orientations in Thermally Reactive and Heterogeneous Noncrystalline Thin Films via Variable-temperature Infrared pMAIRS and GI-XRD <u>Ryohei Ishige</u>

Makoto Ouchi, presiding

14:15 2D19AL Polymers of Lignin-sourced Components as a Facile Chemical Integrant for the Passerini Three-component Reaction Ryohei Kakuchi

Masato Ikeda, presiding

14:45 2D21AL Simple Preparation, Properties, and Functions of Vitrimer-like Polyacrylate Elastomers Using Trans-N-Alkylation Bond Exchange <u>Mikihiro Hayashi</u>

Takeshi Serizawa, presiding

15:15 2D23AL Preparation of Agarose Xerogel Nanoparticles by Solvent Evaporation from Water Nanodroplets <u>Yuuka Fukui,</u>Ryutaro Inamura,Keiji Fujimoto

Fri. May 27

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Kenta Kokado, presiding

mediated reactions

9:30	3D03	Photophysical Properties and Substituent Effects of β- Diketiminate Complexes of the Group 13 Elements <u>Keisuke Suwa</u> ,Shunichiro Ito,Kazuo Tanaka
9:45	3D04	Mechanochromic Luminescence of Bis- <i>ortho</i> -Carboranyl Anthracene <u>Kazuhiro Yuhara</u> ,Kazuo Tanaka
10:00	3D05	High-Speed Optimization of Adhesive Films by Machine Learning in Multi-Material Mixed Systems <u>Yuuki Nagai</u>
10:15	3D06	Goal-oriented Bayesian optimization for resin material design <u>Kyohei Hanaoka</u> ,Yuki Nagai,Naotaka Tanaka
	Ma	asahiro Teraguchi, presiding
10:30	3D07ILY	Synthesis and characterization of homogeneous polymer networks based on star polymers <u>Shintaro Nakagawa</u>
11:00	3D09	Precision Construction of Folded Amphiphilic Polymer Micelles: Effects of Sequence Control and Polymer Backbones <u>Hiroyuki Kouno</u> ,Masayuki Hibino,Makoto Ouchi,Takaya Terashima
11:15	3D10	Salt-Responsive Association of Amphiphilic Random Copolymers in Water: From Micellization Control to Hydrogels <u>Rikuto Kanno</u> ,Makoto Ouchi,Takaya Terashima
11:30	3D11	Hydrogels with Random Copolymer Micelles as Dynamic Crosslinking Points: Control of Physical and Adhesive Properties <u>Hiroaki Asai</u> ,Makoto Ouchi,Takaya Terashima
	Та	kaya Terashima, presiding
12:30	3D12	Synthesis of multibranched polymer having cinnamoyl groups at chain ends <u>Yuki Kokita</u> ,Kaoru Adachi
12:45	3D13	Synthesis of networked gold cluster polymers based on ligand-

		<u>Yuki Saito</u> ,Yukatsu Shichibu,Katsuaki Konishi
13:00	3D14	Unique mechanical properties of star-crosslinked gels: Size effect of star polymer
		<u>Souma Suzuki</u> ,Shohei Ida,Hiroki Takeshita,Shokyoku Kanaoka
13:15	3D15	Synthesis of unimolecular-thick 2D polyanion networks using MOF templates <u>Ami Saito</u> ,Yuki Hayashi,Nobuhiko Hosono,Takashi Uemura
	Sh	ohei Ida, presiding
13:30	3D16	Synthesis and control of the end groups of hyperbranched polymer containing thiophene backbone by mean of unstoichiometric A ₂ + B ₃ Suzuki-Miyaura polycondensation through intramolecular catalyst transfer. <u>Ryusuke SHIMADA</u> , Yoshihiro OHTA, Tsutomu YOKOZAWA
13:45	3D17	Systematic synthesis and characterization of multicyclic polycaprolactones with varied number of cyclic units <u>Hanyoung Seo</u> ,Yoshinobu Mato,Takuya Isono,Takuya Yamamoto,Kenji Tajima,Toshifumi Satoh
14:15	3D19	Nanoaggregation behavior of ladder-like polymer consisting of hydrophilic and hydrophobic polymer chains <u>Yoshiro Kaneko</u> ,Katsufumi Soda
14:30	3D20	Synthesis of ladder-type vinyl polymers in one-dimensional coordination nanospaces <u>Masahiro Abe</u> ,Yuki Kametani,Takashi Uemura
	No	buhiko Hosono, presiding
14:45	3D21	Catalytic functions and Characteristics of gold nanoparticles immobilized on vesicle covered by polyamine loop-clusters corona <u>Ayaka Kanno</u> ,Wenli Wang,Ren-hua Jin
15:00	3D22	Synthesis and permeation of two-dimensional polymers containing ultramicropores (1) from ultrathin membranes of oligoacetylenes having functional groups Yuka Kimura, <u>Moena Maeyama</u> ,Masahiro Teraguchi,Takashi Kaneko,Toshiki Aoki
15:15	3D23	Synthesis and permeation of two-dimensional polymers containing ultramicropores (2) from graft copolymers of fully- conjugated acetylene-type biphenylene macromonomers having functional groups Keisuke Ookawa, <u>Kehan Cheng</u> ,Masahiro Teraguchi,Takashi Kaneko,Toshiki Aoki
15:30	3D24	Synthesis and permeation of two-dimensional polymers containing ultramicropores (3) from membranes of ordered fully- conjugated phenylene-ethynylene oligomers having functional groups <u>Jia Shi</u> ,Hajime Takashi,Masahiro Teraguti,Takashi Kaneko,Toshiaki Aoki

Room E

Wed. May 25

Ichiro Hisaki, presiding

10:00	1E05ILY	Photocatalytic properties induced by self-assembly of organic dyes and the applications <u>Hajime Shigemitsu</u>
10:30	1E07	Adsorption/immobilization of protease on interfacial film of organo-modified carbon nanotube and maintenance of its activity under high temperature <u>Yuna YAMADA</u> ,Kei OBUCHI,Atsuhiro FUJIMORI
10:45	1E08	DNA adsorption-derived emission behavior of organized molecular films of comb copolymers containing diamino-s-triazine ring and its phase separation <u>Momo MAEDA</u> ,Yoshiki SHIODA,Atsuhiro FUJIMORI
11:00	1E09	Shape memory characteristics of crystalline network polymers with trifunctional hyperbranched units as hard segments <u>Yuto OTSUKI</u> ,Junto YAMAGUCHI,Yuji SHIBASAKI,Atsuhiro FUJIMORI
	Hi	romitsu Sogawa, presiding
11:15	1E10	Simple Synthesis of Mesoporous Materials with High-Aspect Ratios Using Nanotube-Gel-Sheet Templates <u>Naohiro Kameta</u> ,Wuxiao Ding
11:30	1E11	Synthesis of Self-propelled Polymer Microtube Motors by Jetting H2 Bubbles
10.00	1510	Ryo Kato,Kaishu Kamachi,Teruyuki Komatsu
12:30	1E12	Functional degradation behavior and its origin by the spherical particlation of thixotropic additive molecules that show linear/helical fiber growth depending on the presence/absence of asymmetric carbon Yuki MASHIYAMA,Yuka HASUNUMA,Atsuhiro FUJIMORI
12:45	1E13	Metal scavenging selectivity of interfacial films of cyclic moiety- containing polyguanamine derivatives <u>Junto YAMAGUCHI</u> ,Yuto OTSUKI,Yuji SHIBASAKI,Atsuhiro FUJIMORI
13:00	1E14	Annealing-Induced Rearrangement Effect of Organo-Modified Inorganic Nanoparticles in A Layered Assembly and Maintenance Characteristics of Its Layered Regularity <u>Nanata KIKUCHI</u> ,Yui YAMAGISHI,Atsuhiro FUJIMORI
	Ry	o Kato, presiding
13:15	1E15	Polymerization-induced emission behavior of poly N,N- dimethylaminoethyl acrylate derivatives <u>Rikuto Ooie</u> ,Fumitaka Ishiwari,Akinori Saeki
13:30	1E16	Supramolecular formation of trisubstituted benzimidazoles having amino-acid-derived optically active moieties <u>Takato Mizukoshi</u> ,Hiromitsu Sogawa,Fumio Sanda
13:45	1E17	Construction of Alternately π-Stacked Systems Based on Carborane <u>Junki Ochi,</u> Kazuo Tanaka
14:15	1E19	Construction and structural transition behavior of isostructural hydrogen-bonded organic frameworks based on a dibenzo[g,p]chrysene with non-planer π-conjugated system <u>Yuto Suzuki</u> ,Ryusei Oketani,Ichiro Hisaki

Daisuke Aoki, presiding

14:30	1E20	Comparison between marine micro & nano plastics and model samples <u>Hisayuki Nakatani</u> ,Yuina Oshima,Taishi Uchiyama,Suguru Motokucho
14:45	1E21	Computational analysis for the aminolysis reaction and its application to post-modification reaction processes <u>Kiho Matsubara</u> ,Hideki Amii,Ryohei Kakchi
15:00	1E22	Borylative Termination in Anionic Polymerization and Subsequent Transformation of Boron Moiety for Syntheses of End- Functionalized Polymers <u>Hiroshi Makino</u> ,Tsuyoshi Nishikawa,Makoto Ouchi
15:15	1E23	Synthesis of branced polyimide network crosslinked with triamine derivatives and its dielectric properties <u>Toshihiro Hiejima</u> ,Kazuki Hironaka,Satoshi Naka
	Ry	ohei Kakuchi, presiding
15:30	1E24	Synthesis and viscoelastic property of covalently adaptive polymer network: Effect of crosslinking group in polymer chains <u>Yasuyuki Nakamura</u> ,Mizuki Tenjimbayashi,Akinori Moriya,Masanobu Naito
16:00	1E26	Molecular Design of Fluorescent Radical Precursors for Detecting Polymeric Mechanoradicals <u>Takumi Yamamoto</u> ,Daisuke Aoki,Hideyuki Otsuka
16:15	1E27	Synthesis of Macrocycles and Their Polymerization Behavior Induced by Exchange Reactions of Bis(hindered amino)disulfide Linkages <u>Rikito Takashima</u> ,Daisuke Aoki,Hideyuki Otsuka
16:30	1E28	Intermolecular Cross-linking Reactions of Single-chain Nanoparticles with Dynamic Covalent Bonds <u>Gota Tomono</u> ,Hirogi Yokochi,Daisuke Aoki,Hideyuki Otsuka

Thu. May 26

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Naoki Haraguchi, presiding

9:30	2E03	Isolation of Polyethylene Glycol with Different Reactive Groups at the Chain Ends and Its Application. <u>Tatsuki Sato</u> ,Rikito Takashima,Daisuke Aoki,Hideyuki Otsuka
9:45	2E04	Mechanochromic microspheres: The relationship between particle structure and mechanochromic properties <u>Kengo Ogasawara</u> ,Takuma Watabe,Daisuke Aoki,Hideyuki Otsuka
10:00	2E05	Synthesis and Evaluation of Diarylacetic-Acid-Based Molecular Probes for Detecting Polymer Chain Scission <u>Yuto Uchida</u> ,Takumi Yamamoto,Daisuke Aoki,Hideyuki Otsuka
10:15	2E06	Degradation and functionalization of cross-linked MOF by alkylation <u>Motoaki Horii</u> ,Masato Yamashita,Hiroki Amaya,Kazuki Sada
	Da	isuke Aoki, presiding
10:30	2E07	Chain Scission of Concentrated Polymer Brushes under Shear <u>Ryota Koyama</u> ,Kohji Ohno,Yoshinobu Tsujii

10:45	2E08	Asymmetric Diels-Alder Reaction Catalyzed by Ionically Polymer- immobilized MacMillan Catalyst in continuous flow system <u>Joh Yamada</u> ,Ali Md Azgar,Naoki Haraguchi
11:00	2E09	Synthesis of ionically polymer-immobilized N-heterocyclic carbene and its application to intramolecular Stetter reaction <u>Mao Iida</u> ,Noriyuki Tatsumi,Naoki Haraguchi
11:15	2E10	Fabrication of periodically crosslinked network using dithiol- functionalized MOF <u>Ikki Matsuda</u> ,Takashi Kitao,Takashi Uemura
		Yasuhito Suzuki, presiding
11:30	2E11	Acid-Catalyzed Hydrolysis of Silylether–Carbosilane Alternating Copolymer <u>Naoki Yoshida,</u> Huie Zhu,Masaya Mitsuishi
12:30	2E12	Anionic UV curing behavior of epoxy resins containing a photobase generator releasing aminopyridine <u>Nanami Ogawa</u> ,Daisuke Aoki,Koji Arimitsu
12:45	2E13	Highly sensitive anionic UV curing using a photobase generator that generates a tertiary amine by photocyclization <u>Riku Takizawa</u> ,Taku Ishii,Daisuke Aoki,Koji Arimitsu
13:00	2E14	Photopattern formation using polysilane modified with glycidyl methacrylate and a photobase generator <u>Kenyu Sugita</u> ,Daisuke Aoki,Koji Arimitsu
		Takeo Suga, presiding
13:15	2E15	Reaction Control of Side Chain Decomposition of Poly(2- hydroxyethyl methacrylate) Protected with BOC Group by the Addition of Thermal Acid Generators Kaito Osada,Yasuhito Suzuki, <u>Akikazu Matsumoto</u>
13:30	2E16	Material Design of Co-continuous Network Polymers (CNP): Effect of the Network Structure of Second Component Polymers on the Strength of CNP Ren Tominaga,Yasuhito Suzuki, <u>Akikazu Matsumoto</u>
13:45	2E17	Bromination of poly(2-phenyl[3]dendralene) <u>Yukine Niitsuma</u> ,Katsuhiko Takenaka,Tomoyuki Toda
14:15	2E19	Unique Stimuli-responsiveness of Chromic Molecules with Bottlebrush Polymers <u>Riho Shibata,</u> Takuma Watabe,Daisuke Aoki,Hideyuki Otsuka
		Tomoyuki Toda, presiding
14:30	2E20	Toughening elastomers with mechanochromic sacrificial bonds <u>Takuma Watabe</u> ,Daisuke Aoki,Hideyuki Otsuka
14:45	2E21	Topological adhesion between polymer networks based on exchange reactions of orthogonal dynamic covalent bonds. <u>Sae Sakamoto</u> ,Daisuke Aoki,Hideyuki Otsuka
15:00	2E22	Diels-Alder Polymer Network: Temperature-Responsive Bond- Exchange Behavior <u>Takeo Suga</u> ,Jieyuan Zhang,Ryusuke Kishida,Kenichi Oyaizu

Fri. May 27

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

		Tomoyasu Hirai, presiding
9:30	3E03	Anionic Polymerization of Polar Conjugated Diene Monomers Using Phosphines as Initiator <u>Hiroki Ito</u> ,Akinori Takasu
9:45	3E04	Cationic polymerization of conjugated dienes catalyzed by cyclic boron-based Lewis acid <u>Ryo Tanaka,</u> Nakaichi Shogo,Nakayama Yuushou,Shiono Takeshi
10:00	3E05	Anionic polymerization of (Z)-1-Phenyl[3]dendralene with Lithium- based initiator <u>Haruto Tanaka</u> ,Tomoyuki Toda,Katsuhiko Takenaka
10:15	3E06	Anionic polymerization behavior of 6-phenyl-1,2-benzofulvene Takashi Ishizone,Raita Goseki <u>,Ayana Fukui</u>
		Tomoyuki Toda, presiding
10:30	3E07	Anionic polymerizability of 5-phenyl-2-isopropenylthiophene <u>Yuki Kurishiba</u> ,Raita Goseki,Takashi Ishizone
10:45	3E08	Anionic polymerization of aromatic 4-styryl ketones <u>Yuki Kamiya</u> ,Raita Goseki,Takashi Ishizone
11:00	3E09	Preparation of novel stereoregular organic-inorganic block copolymer via anionic polymerization <u>Tomoyasu Hirai</u> ,Satoshi Kometani,Naoki Kurono,Syuji Fujii,Nakamura Yoshinobu
11:15	3E10	Preparation of ionic polymers using novel anionic polymerization in ionic liquid. <u>Wataru Higashiguchi</u> ,Yoshinobu Nakamura,Shuji Fujii,Tomoyasu Hirai
11:30	3E11	Anionic photopolymerization of methylenemalonate using a photobase generator without producing gas <u>Masahiro Takano</u> ,Kento Oomura,Kazuki Oofusa,Daisuke Aoki,Koji Arimitsu
		Yasuhiro Kohsaka, presiding
12:30	3E12	Anionic polymerization of N,N-dialkylmethacrylamides having nitrogen-containing heterocycles Yuki Inoue,Raita Goseki, <u>Takashi Ishizone</u>
12:45	3E13	One-pot synthesis of sequence-controlled polymers by means of living anionic addition reaction Kazuki Takahata, <u>Tomohiko Nishijima</u> ,Raita Goseki,Takashi Ishizone
13:00	3E14	Addition-Isomerization Anionic Homopolymerization of 1,1- Diphenylethylene Derivative <u>Daisuke Tanioka</u> ,Kaoru Adachi
13:15	3E15	Anionic polymerization using desilylation of benzylsilanes with metal alkoxide <u>Masaya Terasaki</u> ,Kaoru Adachi
		Tomohiro Kubo, presiding
13:30	3E16	High-Speed Anionic Polymerization of (Meth)acrylates at Ambient Temperature Initiated by Carboxylate Salt with Aluminum Catalyst <u>Yuji Namie</u> ,Michitaka Kaizu,Masashi Shimakage,Naoki Sugano,Yoshitaka Miyazaki,Yasuhiro Kohsaka
13:45	3E17	Precision Synthesis of Special Shaped Polymers by Living Anionic Polymerization Based on Degenarative Chain-Transfer Mechanism to C-H Bonds

		Konomi YAMASHITA, Mineto UCHIYAMA, Masami KAMIGAITO
14:15	3E19	Ring-Opening Polymerization of Novel Lactones with Silyl- Protected Hydroxy Group Derived from Glycerol and Deprotection-Induced Polymer Degradation <u>Yuki SAKATA</u> ,Mineto UCHIYAMA,Masami KAMIGAITO
14:30	3E20	Synthesis of Degradable Vinyl Polymers with Multiple Cleavable Units by Living Cationic Copolymerization with Cyclic Thioacetals <u>Kaoru MATOBA</u> ,Mineto UCHIYAMA,Masami KAMIGAITO
	Mi	neto Uchiyama, presiding
14:45	3E21	Cationic Ring-Opening Copolymerization of Cyclic Acetals and γ- Butyrolactone or 1,3-Dioxolan-4-ones: Copolymerization and Sequence Control by Main-Chain Scrambling Reactions <u>Kana Takebayashi</u> ,Arihiro Kanazawa,Sadahito Aoshima
15:00	3E22	Cationic Co- and Terpolymerization of 3-Alkoxyphthalides with Oxiranes and/or Vinyl Ethers <u>Yuka Takahashi</u> ,Arihiro Kanazawa,Sadahito Aoshima
15:15	3E23	UV irradiation in the metal-free living cationic polymerization using diaryliodonium salts as organic Lewis acid catalysts: Acceleration of the living polymerization and elucidation of the mechanism <u>Yuji Mishima</u> ,Arihiro Kanazawa,Sadahito Aoshima
15:30	3E24	Controlled Cationic Polymerization of Vinyl Monomers using Thiourea/Halogen Bonding Donor Co-catalysts <u>Koji Takagi</u> ,Hiroto Murakata
	Ar	ihiro Kanazawa, presiding
16:00	3E26	Living Cationic Polymerization of Vinyl Monomers using Organotelluronium Compounds as Lewis Acid <u>Koji Takagi</u> ,Nao Sakakibara
16:15	3E27	Polymerization of cyclic esters and vinyl ethers catalyzed by neutral silicon Lewis acid <u>Yuushou Nakayama</u> ,Keiya Katagi,Ryo Tanaka,Takeshi Shiono
16:30	3E28	Precision Cationic Polymerization Using Photo-Transformable Vinyl Ethers <u>Hiroyuki Kubota</u> ,Makoto Ouchi

Room F

Wed. May 25

D. BIOPOLYMERS AND BIORELATED POLYMERS

Takeshi Serizawa, presiding

10:00	1F05	Creation of artificial viral capsid decorated with reconstituted ribonuclease S possessing anticancer activity <u>Yingbing Liang</u> ,Junpei Ota,Hiroto Furukawa,Kentaro Sakamoto,Hiroshi Inaba,Kazunori Matuura
10:15	1F06	Construction of stable microtubule superstructures by encapsulating Tau-derived peptide-fused tetrameric proteins <u>Hiroshi Inaba</u> ,Yurina Sueki,Muneyoshi Ichikawa,Takashi

		Iwasaki,Arif Md. Rashedul Kabir,Akira Kakugo,Kazuki Sada,Kazunori Matsuura
10:30	1F07	Creation of enveloped viral replica equipped with functional membrane proteins <u>Hiroto Furukawa</u> ,Kenshin Miyata,Keigo Nakamura,Hiroshi Inaba,Shin-ichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi,Kazunori Matsuura
		Kazunori Matsuura, presiding
10:45	1F08	In-situ analysis of in-cell protein crystallization <u>Yuto Nakasuji</u> ,Satoshi Abe,Takafumi Ueno
11:00	1F09	Reaction mechanism of pH responsive piston protein assembly <u>Koki Date</u> ,Toan Pham Thuc,Tatuya Niwa,Hideki Taguchi,Takafumi Ueno
11:15	1F10	Construction of Antifreeze protein like semi-clathrate hydrate in the ferritin cage <u>Jiaxin Tian</u> ,Basudev Maity,Satoshi Abe,Takafumi Ueno
11:30	1F11	Studies on the chemical synthesis and the solution structures of proline-containing cyclic peptides <u>Taichi Kurita</u> ,Joan Gimenez-Dejoz,Seiya Fujita,Hirotaka Uji,Keiji Numata
		Keiji Numata, presiding
12:30	1F12	Modification of peptides onto MOF 2D grid surface and antibody recognition <u>Takanao Hirai,</u> Motoaki Horii,Masato Yamashita,Hiroshi Hinou,Kazuki Sada
12:45	1F13	Modification for biomineralization capability of filamentous virus based on machine learning <u>Toshiki Sawada</u> ,Michihiro Tanaka,Takeshi Serizawa
13:00	1F14	Interfacial analysis of the hydrolysis reaction mechanism of phospholipase in lipid rafts <u>Kento Akiyama</u> ,Ayumi Muroya,Rina Tanaka,Toshiaki Mori
		Toshiaki Mori, presiding
13:15	1F15	Novel Design Strategy of DNA-Artificial Nucleic Acid Chimera Toward Enhancement of Target RNA Cleavage Activities: Application for COVID-19 Therapeutics Nozomu Ishiwata,Hironori Hayashi,Masahito Inagaki,Masaki Nishijima,Yasuyuki Araki,Eiichi Kodama <u>,Takehiko Wada</u>
13:30	1F16	Efficient electronic states calculation and machine learning for designing nucleic acid recognition molecules <u>Keisuke Hisama</u> ,Yuuichi Orimoto,Kazuhiko Nakatani,Yuriko Aoki
		Yu Hoshino, presiding
13:45	1F17	Synthesis of Network Polysaccharides from Water-soluble Chitin/ Chitosan <u>Aina Nakamichi</u> ,Kazuya Yamamoto,Jun-ichi Kadokawa
14:15	1F19	Synthesis of Polyester-grafted Chitin Derivatives with Thermoplasticity <u>Aoi Nakashima,</u> Kazuya Yamamoto,Jun-ichi Kadokawa
14:30	1F20	Synthesis of Cyclodextrin-Conjugated Chitosan and Its Application to Polysaccharides Composite Films <u>Takuya Sagawa</u> ,Aoi Kashiwabara,Mineo Hashizume
14:45	1F21	Preparation of Coumarin-Loaded Polysaccharides Composite Films and Photodimerization of Coumarin in the Films

Daiki Usui, Takuya Sagawa, Mineo Hashizume

Mineo Hashizume, presiding

15:00	1F22	Effect of side chain structures of glycopolymers on the interaction with target proteins <u>Masanori Nagao</u> ,Masaya Kichize,Yu Hoshino,Yoshiko Miura
15:15	1F23	Synthesis of cyclic glycopolymers and evaluation of the interaction with Target Proteins <u>WENKANG JIN</u> ,MASANORI NAGAO,YU HOSHINO,YOSHIKO MIURA
15:30	1F24	Investigation of the anti-inflammatory effects in macrophage-like cells using glycopolymers bearing sialyloligosaccharides. <u>Takato Ishida</u> ,Masanori Nagao,Hirohiko Ise,Yu Hoshino,Yoshiko Miura
	Ju	n-ichi Kadokawa, presiding
16:00	1F26	Preparation of chitosan nanohybrid films containing proteoglycans <u>Hiroki Kajiwara</u> ,Saki Kato,Ryosuke Suzuki,Tosiaki Mori
16:15	1F27	Direct surface-modification of titania nanotubes by glycopolymers via light-induced polymerization <u>Tomonari Tanaka</u> ,Kaito Nishiyama,Hisataka Nishida,Sung Hun Cho,Tohru Sekino
16:30	1F28	Synthesis and characterization of hyperbranched polysaccharide nanoparticles modified the surface with thermoresponsive polymers <u>Hayata Kimura</u> ,Tomoki Nishimura,Yoshihiro Sasaki,Shin-ichi Sawada,Kazunari Akiyoshi

Thu. May 26

D. BIOPOLYMERS AND BIORELATED POLYMERS

Masato Ikeda, presiding

9:30	2F03	Reverse polymeric micelle composed of AB3-type polydepsipeptide <u>Hirotaka Uji</u> ,Naoki Watabe,Tatsuya Komi,Tomoki Sakaguchi,Ryo Akamatsu,Kenta Mihara,Shunsaku Kimura
9:45	2F04	Cubic co-assembly by two kinds of amphiphilic polypeptides self- assembling curved and planar sheets <u>Motoki Ueda</u> ,Mohamed Elafify,Yoshihiro Ito
10:00	2F05	Preparation of reductively responsive nanocapsules using reactive polymer zwitterion <u>Akifumi Kawamura</u> ,Kazuki Naruse,Todd Emrick,Takashi Miyata
	Mo	otoki Ueda, presiding
10:15	2F06	Morphological control in response to photo-irradiation by cationic comb-type copolymer with malachite green <u>Seiya Takemura</u> ,Atsushi Maruyama,Naohiko Shimada
10:30	2F07	Development of polyion complex vesicles using peptides containing an alternating sequence of lysine/glutamic acid <u>Kousuke Tsuchiya</u> ,Seiya Fujita,Keiji Numata
10:45	2F08	Membrane disruption by calixarene derivatives and their bioactvities

<u>Kazuma Yasuhara</u>,Mizuki Kaji,Hideto Kibata,Takuto Nakano,Gwenael Rapenne

Atsushi Maruyama, presiding

11:00	2F09	Fabrication and analysis of novel higher ordered structures of polyion complex based on polymer condensates formation <u>Hiroshi Kamizawa</u> ,Tomoki Maruyama,Yiwei Liu,Teruki Nii,Kanjiro Miyata,Takeshi Mori,Yoshiki Katayama,Akihiro Kishimura
11:15	2F10	Characterization of Hydration Water Bound to Cholinephosphate Type Polymer Brush by Differential Scanning Calorimetry <u>Kaito Inoue</u> ,Shouhei Shiomoto,Masaru Tanaka,Motoyasu Kobayashi
11:30	2F11	Cellular uptake behavior of degradable and transformable core- corona type particles Satoshi YAMADA,Syuuhei KOMATSU, <u>Akihiko KIKUCHI</u>
	Sh	in-ichi Sawada, presiding
12:30	2F12ILY	Construction of functional nanostructured materials via molecular self-assembly of cellulose <u>Yuuki Hata</u>
13:00	2F14	Supramolecular materials based on artificial molecule/biomolecule modular hybrids <u>Masato Ikeda</u>
13:15	2F15	Control of Energy Conversion for Autonomously Oscillating Hydrogel Microsphere Assemblies <u>Kohei Inui</u> ,Ikuma Saito,Ryo Yoshida,Haruka Minato,Daisuke Suzuki
	Yo	shiki Katayama, presiding
13:30	2F16	Single-particle analysis and functional evaluation of extracellular vesicles and magnetic particle hybrids interfaced with self- assembled nanogels <u>Ryosuke Mizuta</u> ,Shinichi Sawada,yoshihiro Sasaki,kazunari Akiyoshi
13:45	2F17	Design and characterization of single-chain antibody-incorporated liposomes for cancer therapy <u>Shin-ichi Sawada</u> ,Nakamura Keigo,Sasaki Yoshihiro,Kazunari Akiyoshi
14:15	2F19	Gene introduction into plant mitochondria by peptide/DNA micelle complex modified with mitochondrial targeting and cell membrane penetrating peptides <u>Naoya Abe</u> ,Seiya Fujita,Takaaki Miyamoto,Kousuke Tsutiya,Keiji Numata

Fri. May 27

D. BIOPOLYMERS AND BIORELATED POLYMERS

Masaya Yamamoto, presiding

Dye

 9:30 3F03 Protein Adsorption on Oriented Mesoporous Silica Films <u>Yadong Chai</u>, Yuri Maruko, Mari Miyata, Motohiro Tagaya
 9:45 3F04 Design of Orthogonal Lamination Process of Uniaxially-Oriented Mesoporous Silica Films and Their Adsorptive Ability for Cationic

		<u>Rin Nakajima</u> ,Yadong Chai,Mari Miyata,Motohiro Tagaya
10:00	3F05	Smart refolding system using UCST-type uredo polymers <u>Naohiko Shimada</u> ,Yamato Tanaka,Niu Chun Hao,Taira Sasaki,Atsushi Maruyama
		Motohiro Tagaya, presiding
10:15	3F06	Fabrication of cicada-wing-inspired nanopillar films and their antibacterial properties <u>Yohei Kotsuchibashi</u>
10:30	3F07	Preparation of thin films from hydrophobic amino acid-derived vinyl polymers and their characterization <u>Rara Ogawa</u> ,Nobuyuki Higashi,Tomoyuki Koga
10:45	3F08	Preparation and functional characterization of biomimetic tissue adhesive <u>Kazuhiro Nagasaka</u> ,Shiharu Watanabe,Shima Ito,Hiroaki Ichimaru,Akihiro Nishiguchi,Hidenori Ohtsuka,Tetsushi Taguchi
		Tomoyuki Koga, presiding
11:00	3F09	Spontaneous liquid-liquid phase separation to liquid-solid phase transition of citrulline polypeptide/nucleic acid complex <u>Shouhei Nomura</u> ,Naohiko Shimada,Atsushi Maruyama
11:15	3F10	Construction of hybrid particles covered with biological membrane by cell permeation method <u>Keigo Ukyo</u> ,Yoshihiro Sasaki,Shin-ichi Sawada,Kazunari Akiyoshi
11:30	3F11	Design of Temperature-Responsive Gels That Regulate Molecular Binding Ability by Conformational Change and Controlled Drug Release <u>Takashi Miyata</u> ,Yuto Toyoshima,Akifumi Kawamura,Yoshinori Takashima
		Akifumi Kawamura, presiding
12:30	3F12	Synthesis of novel star-shaped amino acid-derived vinyl polymers and their thermo responsiveness. <u>Momoka Kamiya</u> ,Nobuyuki Higashi,Tomoyuki Koga
12:45	3F13	Application of phenylalanine-bearing carboxy-terminal dendrimers to pH-responsive DDS and colorimetric sensor <u>Chie Kojima,</u> Misaki Nishio,Hai Xia,Akikazu Matsumoto
13:00	3F14	Temperature/pH dual-responsive shape memory hydrogels composed of amino acid-derived vinyl polymers <u>Yuki Komori,</u> Nobuyuki Higashi,Tomoyuki Koga
		Yoshihiro Sasaki, presiding
13:15	3F15	Design of sulfabetaine hydrogels <u>Nobuyuki Morimoto</u> ,Atsuki Murata,Tomoki Hiraoka,Masaya Yamamoto
13:30	3F16	Fabrication of hydrogel-based microfluidics device for biomolecular sensing <u>Aya Tanaka</u> ,Riku Takahashi,Tomomi Murai,Suzuyo Inoue,Masumi Yamaguchi
13:45	3F17	Transient volume phase transition and payload secretion of a poly-peptide responsive hydrogel <u>Masahiko Nakamoto,</u> Michiya Matsusaki
		Chie Kojima, presiding
14.15	00100	

14:15 3F19ILY Development of polymeric materials through bio-inspired design, bio-synthetic interaction, and bio-synthetic fusion

Room G

Wed. May 25

D. BIOPOLYMERS AND BIORELATED POLYMERS

Chie Kojima, presiding

10:00	1G05	Preparation of alginate films by using Beads-array method to control the 3-dimensional distribution of included substances <u>Masanari Usami</u> ,Fakfan Luangapai,Satoshi Iwamoto
10:15	1G06	Precise analysis of structural formation of amylopectin gel (Warabi-mochi) Akane Nagasaki,Yuka Ikemoto, <u>Go Matsuba</u>
10:30	1G07	Electrical relaxation behaviors in stacked gelatin films below the glass transition temperature <u>Souta Hori,</u> Fakfan Luangapai,Satoshi Iwamoto
10:45	1G08	Cellular flocculation using concentrated polymer brush-modified cellulose nanofibers: Effect of surface charges and fiber lengths <u>Chiaki Yoshikawa</u>
	Sh	oichiro Asayama, presiding
11:00	1G09	Evaluation of anti-depressive effect of intestinal ROS scavenging nanoparticle <u>Yutaka Ikeda</u> ,Naoki Saigo,Yukio Nagasaki
11:15	1G10	Analysis of hydration state of PEG and PEGylated dendrimers <u>Chie Kojima</u> ,Yasuhito Suzuki,Ayako Tsujimoto,Yuka Ikemoto,Masaru Tanaka,Akikazu Matsumoto
11:30	1G11	Impact of self-assembled antioxidant specifically accumulating in the gastrointestinal tract on high-intensity running performance <u>Takuto Toriumi</u> ,Hajime Ohmori,Yukio Nagasaki
	Yu	itaka Ikeda, presiding
12:30	1G12	Development of glucosylated PEG-conjugated immune checkpoint inhibitors targeting glioblastoma <u>Yuki Mochida</u> ,Tao Yang,Xueying Liu,Hiroaki Kinoh,Horacio Cabral,Kazunori Kataoka
12:45	1G13	Design of Diels-Alder Based Magnetic Nanoparticles for Temperature-Triggered Controlled Drug Release <u>Nanami Fujisawa</u> ,Lili Chen,Yoshitaka Matsumoto,Masayuki Takeuchi,Mitsuhiro Ebara
13:00	1G14	Lipid nanoparticle based on poly(ɛ-caprolactone) derivatives for in vivo mRNA delivery <u>Yuta Mizukami</u> ,M. Abd Elwakil Mahmoud,Yusuke Sato,Takuya Isono,Takuya Yamamoto,Kenji Tajima,Hideyoshi Harashima,Toshifumi Satoh
	Ya	suhiko Iwasaki, presiding

13:151G15Preparation and selective internalization of L-serine-modified
PEG-b-PLGA nanoparticles to renal epithelial cells

		Kanoko TAKAHASHI,Syuuhei KOMATSU,Yoshitsugu AKIYAMA, <u>Akihiko KIKUCHI</u>
13:30	1G16	Design of PEG-modified nanoparticles for selective cellular uptake into cancer cells <u>Tsubasa Hatono</u> ,Aoi Uozumi,Akifumi Kawamura,Takashi Miyata
13:45	1G17	Design of Cysteine-Based Polymer Assembling Drugs and Therapeutic Effect on Nonalcoholic Steatohepatitis <u>Yuta Koda</u> ,Yukio Nagasaki
	Ka	zuo Sakurai, presiding
14:15	1G19	Cell-polymeric biomaterial interaction tailored by a glycan of plasma membrane <u>Kei Nishida,</u> Masayasu Mie,Eiry Kobatake,Masaru Tanaka
14:30	1G20	Efficient phagocytosis of tumor cells by antibody/aptamer co- immobilized macrophages <u>Xiaodie HU</u> ,Yasuhiko IWASAKI
14:45	1G21	Hepatocyte-Specific Delivery of Zn2+ Ions to Suppress Insulin Receptor Internalization for Diabetes Therapy <u>Shoichiro Asayama</u> ,Akito Endo
15:00	1G22	Peptide Modification and Amyloid-beta Aggregation Refolding by Cholesterol End-Modified PEG <u>SHOTA WATANABE</u> ,SHOICHIRO ASAYAMA
	Ak	ihiko Kikuchi, presiding
15:15	1G23	Photodynamic Activity of Catalase-Albumin Cluster Incorporating Protoporphyrin <u>Taiga Yamada</u> ,Maho Katsumi,Teruyuki Komatsu
15:30	1G24	The design of a nanoadjuvant composed of CpG ODNs and a cationic molecular bottlebrushes <u>Yusuke Miyashima</u> ,Shin Takano,Shota Fujii,Kazuo Sakurai
16:00	1G26	Construction of a Novel Carrier System for Cancer Cell-specific Delivery Utilizing MMP-9 Activity III: Effects of Polymer Structure upon Enzyme Cleavage and Uptake Ability Nagisa Kanazawa,Ryota Azuma,Yuka Matsuhashi,Hiroka Sugai,Yasuyuki Araki,Masaki Nishijima,Ikuhiko Nakase, <u>Takehiko</u> <u>Wada</u>
16:15	1G27	Fine-tuning of cationic block copolymer structures for enhanced blood circulation of single-oligonucleotide-loaded ultrasmall nanocarriers <u>Mitsuru Naito</u> ,Hiroyuki Chaya,Masaru Cho,Kazuko Toh,Kotaro Hayashi,Shigeto Fukushima,Yamasaki Yuichi,Kazunori Kataoka,Kanjiro Miyata

Thu. May 26

D. BIOPOLYMERS AND BIORELATED POLYMERS

Michiya Matsusaki, presiding

9:30	2G03	Evaluation of Calcium Phosphate Precipitation Effect on Citric
		Acid-Modified Poly(vinyl alcohol) Films
		Yannni Zhou, Yadong Chai, Mari Miyata, Motohiro Tagaya
9:45	2G04	Creation of cellular scaffold materials using temperature- responsive injectable polymer crosslinked by gelatin

Nobuo Murase, Yuichi Ohya 10:00 2G05 Development of pseudo-brain tissue to elucidate the mechanism of neural network reconstruction Yuna Kato, Tadashi Nakaji-Hirabayashi, Ayumu Ogasawara, Hikari Yasui,Noriyasu Oguma Nobuyuki Morimoto, presiding 2G06 Thermoresponsive block copolymer brush with cell affinity 10:15 peptides for cell separation Kenichi Nagase, Masaki Shimura, Ruka Shimane, Hideko Kanazawa 10:30 2G07 Suppression of cellular senescence by mitophagy-induced nanocarriers Kiyoshi Sato, Yui Okido, Keisuke Ashiba, Hiroyoshi Kawakami 10:45 2G08 Synthesis of polyvinyl alcohol derivatives targeting L-type amino acid transporter 1 (LAT1) and their application to cancer cell capturing materials Michiya MATSUSAKI, Ryo MITSUYASU, Donghee KANG Kenichi Nagase, presiding 2G09 11:00 Fabrication of elastic modulus-tunable scaffolds by controlling the size of collagen fibers and their application to cancer cell culture Michiya Matsusaki, Tomoyuki Suezawa, Naoko Sasaki, Ryohei Katayama Epithelial cell culture on MOF gel-immobilized cell culture 11:15 2G10 substrates Masaya Tanaka, Masaya Yamamoto

11:302G11Application of biodegradable film for cell sheet multilayer
technology as a novel cell-friendly material
Mai Hazekawa,Shigeru Yao

F. INDUSTRIAL POLYMERS AND TECHNOLOGY "English Session"

Shin-ichi Kuroda, presiding

12:30	2G12	Development of Photo-polymer with Controllable Phase-Separated Structure by Light-Induced Reversible Addition-Fragmentation Chain-Transfer Polymerization <u>Masaru Mukai</u> ,Taiki Maruyama,Taichi Furukawa,Syoji Maruo
12:45	2G13	High performance of virgin plastic-Extended the Physical Degradation / Physical Regeneration Theory- <u>Shigeru Yao</u> ,Patchiya Phantong,Haruka Kaneyasu,Tetsuya Kimura,Ryo Hieda,Yuki Kawakami,Shuhei Imamura
13:00	2G14	Fabrication of high heat-resistant polyarylate nanofibers by electrospinning <u>Shigeki Okada</u> ,Tomoki Maeda,Atsushi Hotta
13:15	2G15	Bamboo Charcoal/ Poly(L-lactide) Fiber Webs Prepared via Laser- Electrospinning <u>Zongzi Hou</u> ,Nahoko Itagaki,Haruki Kobayashi,Tanaka Katsufumi,Wataru Takarada,Takeshi Kikutani,Midori Takasaki
	Ma	sayuki Yamaguchi, presiding

13:30 2G16ILI The Power of Advanced Characterizations in Industrial Research: Study Cases from Impact-resistant PP Copolymer

Wonchalerm Rungswang

Masaru Mukai, presiding

14:15	2G19	Study on cellulose nanocrystal / polypropylene composites <u>Shin-ichi Kuroda</u> ,Wanyu Dong,Tomoki Tanabe,Mitsuo Asahara,Saeki Mitsugi
14:30	2G20	Surface modification ability of Side Chain Crystalline Block Co- polymer <u>Shigeru Yao</u> ,Shinsuke Aso,Tokumu Aoki,Yuki Fukano,Kazuhiro Matsuo,Ryoko Nakano
14:45	2G21	Development of an ultra-precision polishing technique for polymer material using a metal catalyst and pure water <u>Toh Daisetsu</u> ,Koudai Takeda,Kazuto Yamauchi,Yasuhisa Sano
15:00	2G22	Effect of plasma gas species in atmospheric pressure plasma CVD for improving adhesion strength of ceramics <u>Kenichi Yamazaki</u> ,Hiroyuki Yasui,Hinako Suematsu,Tsuyoshi Noguchi,Yuma Suenaga,Akitoshi Okino

D. BIOPOLYMERS AND BIORELATED POLYMERS

Atsushi Mahara, presiding

9:30	3G03	Improvement of substrate adhesion and functionalization of antibiofouling heteroarm star polymer <u>Tsuyoshi Ando</u> ,Yuji Kinoshita,Fumitoki Nagura,Hiroharu Ajiro
9:45	3G04	Evaluation of antibiofouling property on zwitterionic cross-linked polymer coating by a microfluidic perfusion culture system <u>Yuta Kozuka</u> ,Tsukuru Masuda,Shintaro Hara,Norifumi Isu,Madoka Takai
10:00	3G05	Development of biogas sensor embedding detecting enzyme in electrospun polymer microfiber <u>Tsubomi Tomono</u> ,Misa Nakaya,Kenta Iitani,Koji Toma,Takahiro Arakawa,Yuji Tsuchido,Kohji Mitsubayashi,Naoya Takeda
		Mitsuhiro Ebara, presiding
10:15	3G06	Synthesis of PMPC-conjugated lipid and its liposome modification for avoidance of immune system <u>Yuji Teramura</u> ,Kazuhiko Ishihara
10:30	3G07	Surface interaction analysis of human umbilical vein endothelial cells (HUVECs) on the poly (2-methoxyethyl acrylate (PMEA) analogous <u>Md Azizul Haque,</u> Daiki Murakami,Masaru Tanaka
10:45	3G08	Synthesis of Novel Blood-Compatible Acrylic Polymers <u>Shota Taniguchi</u> ,Kenichi Nakamura,Masaru Tanaka
		Yuji Teramura, presiding
11:00	3G09	Polymeric MR contrast agents for in vivo live imaging of angiogenesis <u>atsushi mahara</u> ,Shigeyoshi saito,keigo shima,yoshiaki
	0010	hirano,tetsuji yamaoka
11:15	3G10	Highly sensitive labeling reagents for Raman imaging with latex beads encapsulating an algal pigment <u>Yusuke Yonamine</u> ,Joshua Chidiebere Mba,Yusei Miyata,Yu Hoshino,Hideyuki Mitomo,Kuniharu Ijiro
11:30	3G11	Design of Urease Immobilized Nanofiber Meshes and Evaluation

of Urea Decomposition <u>Makoto Sasaki</u>,Yihua Liu,Mitsuhiro Ebara

Masaru Tanaka, presiding

12:30	3G12ILY	Design of tissue-adhesive biomaterials to prevent postoperative
		complications
		<u>Akihiro Nishiguchi</u>

13:00 3G14 The development of antibody-smart polymer conjugate by "Grafting from" method toward an early diagnosis of infection disease <u>Erika YOSHIHARA</u>,Nabil Ahmed,Michihiro IIJIMA,Mitsuhiro EBARA

Tsuyoshi Kimura, presiding

13:15	3G15	Development of anti-adhesion materials spontaneously forming
		barriers on the soft tissues Kyoko Fukazawa,Sunao Matsui,Takeshi Nagasaki,Tetsuji
		Yamaoka

- 13:30 3G16 surface and interface properties of zwitterion based N-oxide polymer brush Naoto Ogiwara,Tsukuru Masuda,Madoka Takai
- 13:45 3G17 Surface modification of liposome with PMPC-conjugated lipid driven by self-assembling phenomenon <u>Haruna Suzuki</u>,Naoko Nakamura,Kazuhiko Ishihara,Yuji Teramura

Akihiro Nishiguchi, presiding

14:15	3G19	Platelet adhesion behavior of poly(L-lactide-co-glycolide)-poly(1,5- dioxepan-2-one) random multiblock copolymers
		<u>Nozomi Tanaka</u> ,Xoan Vu Thi,Mitsutoshi Jikei,Kazuya
		Matsumoto, shigeharu Ueki, Masaki Hikida

- 14:303G20Cilostazol-loaded acellular sheet for suppressing the smooth
muscle cell growth
Kaito Shimizu,Atsushi Mahara,Yoshiaki Hirano,Tetsuji Yamaoka
- 14:45 3G21 Immunological evaluation of polymeric biomaterials using designed cells <u>Tsuyoshi Kimura</u>,Shota Toda,Ruri Ishigaki,Yoshihide Hashimoto,Takahide Matsushima,Hiroshi Asahara,Wataru Nomura,Naoko Nakamura,Masaya Yamamoto,Akio Kishida

Room H

Wed. May 25

E. POLYMERS AND ENVIRONMENT

Syuji Fujii, presiding

13:15 1H15ILY Functionalized Capsule Polymer Particles Fabricated by Interfacial Photocrosslinking of Polymer Particles Yukiya Kitayama

Toshifumi Satoh, presiding

13:45	1H17	Whitening of "lignin", a plant aromatic polymer <u>Kazuhiro Shikinaka</u> ,Yuichiro Otsuka
14:15	1H19	Synthesis, Thermal Properties and Enzymatic Degradation of Divanillic Acid-derived Polyester with Free Hydroxyl Groups <u>Kentaro Fujieda</u> ,Yukiko Enomoto,Tadahisa Iwata
14:30	1H20	Synthesis and Two-step Enzymatic Degradation of Paramylon Ester-graft-poly(lactic acid) <u>Jin Ho Seok</u> ,Yukiko Enomoto,Tadahisa Iwata
14:45	1H21	Preparation of cellulose nanocrystal-based particles with fixed core-shell structure <u>Emiko MOURI</u> ,Satsuki AZUMA,Teruyuki NAKATO
	Ka	zuki Fukushima, presiding
15:00	1H22	Polymerization of glycidate with malic anhydride esters and evaluation of properties of cured products <u>Kota Okumura</u> ,Yoshimasa Matsumura,Bungo Ochiai
15:15	1H23	Development of Compatibilizer for Cellulose Acetate/Poly(&caprolactone) Blend <u>Yuki Tsuji</u> ,Satoshi Katsuhara,Naoki Sunagawa,Kiyohiko Igarashi,Takuya Yamamoto,Takuya Isono,Kenji Tajima,Toshifumi Satoh
15:30	1H24	Development of novel bio-based polymers derived from ferulic acid and cellulose for CO2 capture <u>Shinji Kanehashi,</u> Kenji Ogino,Junichi kamagata,Hitoshi Aoki
	Yu	kiya Kitayama, presiding
16:00	1H26	Synthesis and Physical Properties of Polyimides Derived from Plant-based Materials Exhibiting High Transparency, Low Refractive Indices, and Low Dielectric Constants. <u>Ririka Sawada</u> ,Mitsutaka Ozaki,Kazuhisa Yajima,Ryohei Ishige,Shinji Ando
16:15	1H27	Development of Aliphatic Polycarbonates Exhibiting Liquid Crystallinity <u>Kazuki FUKUSHIMA</u> ,So NAKAI,Junya UCHIDA,Takashi KATO
16:30	1H28	Synthesis and Characterization of Cationic Cellulose (I) - Synthesis of Highly Substituted Derivatives <u>Yutaro Hayashi</u> ,Elisabeth R Seiler,Yuko Takeoka,Masahiro Rikukawa,Masahiro Fujita
16:45	1H29	Development of self-healable and elastomeric lignin-based polymer with hydrogen bonding <u>Shuhei Takamura</u> ,Naruki Kurokawa,Atsushi Hotta

Thu. May 26

E. POLYMERS AND ENVIRONMENT

Hiroharu Ajiro, presiding

9:30	2H03	Polymer composite of plant oil-based polyesters with cellulose nanofibers and their mechanical properties <u>Yuichi Matsumoto</u> ,Kotohiro Nomura
9:45	2H04	Development and evaluation of water conditions degradable enzyme embedded biodegradable polyesters. <u>QIUYUAN HUANG</u> ,Satoshi Kimura,Tadahisa Iwata

10:00	2H05	Effect of oligomers derived from biodegradable polycaprolactone on eco- and neuro-toxicity <u>Naoto Yoshinaga</u> ,Ayaka Tateishi,Kotaro Sato,Keiji Numata
10:15	2H06	Application of poly(ferulic-acid-co-glycolic acid) as Property Modifier for Poly(lactide) <u>Daisuke Ishii</u> ,Rui Tsukada,Ai Matahira
	Da	isuke Aoki, presiding
10:30	2H07	Degradation of poly(trimethylene carbonate) derivatives with ester free structure bearing various substituents <u>Hiroharu AJIRO</u> ,Rikyu Miyake,Lee Tan,Nalinthip Chanthaset
10:45	2H08ILY	Development of marine biodegradable bioplastics using polysaccharides <u>Yu-I Hsu</u>
11:15	2H10	Aggregation States and Degradation Behaviors of Thin Polyamide 4 Films in Underwater Environments <u>Shunta Tamura</u> ,Haruki Mokudai,Takashi Masaki,Norifumi Yamada,Hisao Matsuno,Keiji Tanaka
11:30	2H11	Spray drying of natural rubber latex and its effect on vulcanization <u>Yoshimasa Yamamoto</u> ,Akihiro Sato,Anna Sasaki,Seiichi Kawahara
	Ke	iji Numata, presiding
12:30	2H12ILY	Study on nanomechanical properties of soft materials for environmental load reduction <u>Xiaobin Liang</u>
	Ко	usuke Tsuchiya, presiding
13:00	2H14	Preparation and property evaluation of microbead derived from biodegradable polyesters <u>Hongyi Gan</u> ,Takumi Okada,Satoshi Kimura,Tadahisa Iwata
	Ко	taro Satoh, presiding
13:15	2H15	Nucleating effect of surface-modified plate-like cellulose II microcrystals on the crystallization behavior of poly(L-lactic acid) <u>Ikumi Tsuzuki</u> ,Kayoko Kobayashi,Masahisa Wada,Ryosuke Kusumi
13:30	2H16	Design of thermoplastic materials using cellulose as a base matrix <u>Ruozhu Wang</u> ,Yoshito Andou
13:45	2H17	Melt spinning of curdlan propionate fiber and observation of crystal formation mechanism in melt spinning process using synchrotron radiation X-ray <u>Taizo Kabe</u> ,Hongyi Gan,Hiroyasu Masunaga,Tadahisa Iwata

E. POLYMERS AND ENVIRONMENT "English Session"

Yukiko Enomoto, presiding

14:15 2H19ILI Utilization of Bio-renewable Resources via Chemical Reaction and Their Applications on Environmental Treatment and Energy Storage Suwadee Kongparakul

14:45 2H21 Degradation Behavior of Melt-spun Polyamide 4 Fibers in Underwater Environment <u>Jinhyeok Hong</u>,Haruki Mokudai,Takashi Masaki,Hisao Matsuno,Keiji Tanaka

Keiji Tanaka, presiding

15:00	2H22	Preparation and properties of binary green blends of poly(butylene succinate) and polysaccharide ester derivatives <u>Manikandan Ilangovan</u> ,Hongyi Gan,Tadahisa Iwata
15:15	2H23	Controlled of reaction conditions on mechanochemical esterification of thermoplastic cellulose oleate <u>Lease Jacqueline</u> ,Yoshito Andou
15:30	2H24	Rapid Identification of Microplastics of Commodity Polymers using Nile Red Staining <u>Ramadan Eljamal</u> ,Tomoko Kajiwara,Adchara Padermshoke,YingJun An,Atsushi Takahara

E. POLYMERS AND ENVIRONMENT

Hisao Matsuno, presiding

9:30	3H03	Phenolic resin using glycol lignin <u>Hajime Kimura,</u> Morio Yonekawa,Yasunori Ohashi,Thi Thi Nge,Yusuke Matsumoto,Tatsuhiko Yamada
9:45	3H04	Development of UV-curable bio-based polymer derived from natural phenol compound <u>Shinji Kanehashi,</u> Kan Kato,Kenji Ogino
10:00	3H05	Polymeric materials to fertilizers by the degradation reaction with ammonia <u>Takumi Abe</u> ,Daisuke Aoki,Hideyuki Otsuka
10:15	3H06	Observation of the dispersed state of polyvinyl acetate in polyethylene and polypropylene <u>Kazutoshi Ikenaga</u> ,Yuta Yamashita
	1	Shinji Kanehashi, presiding
10:30	3H07	Purification of polyethylene and polypropylene in waste plastics using solvent extraction method <u>Kazutoshi Ikenaga</u> ,Yuki Morikami
10:45	3H08	Effect of Anion Interaction on Polarity of Ionic Liquid Mixture <u>Hiroki Shibata</u> ,Suiji Katsura,Takeshi Kakibe,Satsuda Matsuda,Hajime Kishi
11:00	ЗН09	Preparation of polymer composites filled with fibrillated olive pomace and marble powder waste and the optimization of mechanical properties <u>Tessei Kawano</u> ,Yoshito Andou,Esra Yel
11:15	3H10	Metal adsorption behavior of metal-absorbing polymers <u>Koki Kawabata</u> ,Masanori Hisano,Yuki Anma,Yoshikiyo Hatakeyama,Hironori Hondoh,Daisuke Nagai
	i	Kazutoshi Ikenaga, presiding
12:30	3H12	Evaluation of the fracture behavior of aqueous latex films <u>Hayato Suzuki</u> ,Yuma Sasaki,Kazuya Uenishi,Kazuko Nakazono,Toshikazu Takata,Daisuke Suzuki
12:45	3H13	Effect of crosslinking density for hydrolysis reaction of crosslinked polyurethane by carbonic acid water <u>Suguru Motokucho,</u> Ryota Oshima,Moe Sasai,Hisayuki Nakatani

13:00	3H14	Development of the accelerated evaluation method of biodegradability in seawater <u>Nao OSAKA</u> ,Hironori TAGUCHI,Hisao MATSUNO,Keiji TANAKA,Takako KIKUCHI
13:15	3H15	Environmental Degradation Behavior of Fishing Line Fibers <u>Yingjun AN</u> ,Tomoko KAJIWARA,Adchara PADERMSHOKE,Hiroyasu MASUNAGA,Sono SASAKI,Atsushi TAKAHARA

Room J

Wed. May 25

Invited Lecture "English Session"

<Japan-Taiwan Joint Session>

Teruaki Hayakawa, presiding

12:30	1J12IL	Oriented Artificial Water Channels Formed via Water-Induced Self-Assembly <u>Chien-Lung Wang</u> ,Yuan Chen,Hsi-Yen Chang,Wei-Tsung Chuang,Kuan-Yi Wu
13:00	1J14IL	Chemically Tailored Optical Resonators for Sensing and Energy Harvesting <u>Hiroshi Yamagishi</u>
13:30	1J16IL	Materials Design for High-Performance Stretchable and Self- Healing Semiconducting Polymers <u>Yu-Cheng Chiu</u>
14:15	1J19IL	Fracture Process of Polymer Materials by Molecular Simulation <u>Yuji Higuchi</u>
	То	moya Higashihara, presiding
14:45	1J21IL	Phase and Crystallization Behaviors of Binary Block Copolymer Blends with Hydrogen-Bonding Interaction <u>Chieh-Tsung Lo</u> ,Po-Yun Chuang,Shu-Yu Liao,Kuang-Hsin Wu,Bo-Jhih Yeh
15:15	1J23IL	Crystal Structure and Dynamics Behavior of Chitosan-ZnCl2 Complex <u>Takuya Uto</u>
16:00	1J26IL	Hollow Gyroid Featuring Minimum Structural Volume from a Dual-Removable Ternary Nanocomposite I-Ming Lin,E-Ming Wang,Edwin L. Thomas, <u>Yeo-Wan Chiang</u>
16:30	1J28IL	Thermodynamics and phase transition in model polymer blend <u>Yutaka Aoki</u> ,Julia S. Higgins,Joao T. Cabral

Thu. May 26

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

Akikazu Matsumoto, presiding

9:30	2J03ILI	Structure regulation and properties of cellulose materials under external fields <u>Guangjie Song</u> ,Jun Zhang
10:00	2J05	Effect of Thermal History of Isotactic Polypropylene on Mesostructure and Frequency of Bubble Nucleation in Physical Foaming Phenomena Kanako Ishikawa,Miori Takizawa, <u>Kentaro Taki</u>
10:15	2J06	Effect of radical formation on NMR relaxation in a heat-treated ethylene ionomer <u>Shohei Mikage</u> ,Atsushi Asano
10:30	2J07	Melt-Isothermal Crystallization Kinetics of Microbial Poly(3- hydroxybutyrate-co-3-hydroxyhexanoate) in Thin Films <u>Toan Van Nguyen</u> ,Nagata Toshiteru,Noso Kosei,Kaji Kenshiro,Masunaga Hiroyasu,Hoshino Taiki,Sakurai Shinichi,Sasaki Sono
	К	entaro Taki, presiding
10:45	2J08	beta relaxation of polyfumarates and structural anisotropy <u>Yasuhito Suzuki,</u> Koji Fukao,Akikazu Matsumoto
11:00	2J09	Elastic single crystal fibers consisting of an anthracene derivative for winding <u>Satoshi Watanabe</u> ,Keigo Ono,Shotaro Hayashi,Masashi Kunitake
11:15	2J10	Self-assembled prolate micro-spheroids of achiral π-conjugated polymer with chiral dopant <u>Sota Nakayama</u> ,Osamu Oki,Hiroshi Yamagishi,Yohei Yamamoto
11:30	2J11	Rheological and tensile properties of poly(methyl methacrylate) containing lithium halides <u>Asae Ito</u> ,Arisa Shin,Koh-hei Nitta
	н	iroshi Jinnai, presiding
12:30	2J12	Aggregation States and Thermal Molecular Motion of Poly(methyl methacrylate) in Nanofiber Mats with Different Tacticity <u>Keigo Kawahara</u> ,Hisao Matsuno,Keiji Tanaka
12:45	2J13	Thermal Diffusivity of Shape-Anisotropic Polyimide Particles by Solid-State Polycondensation of Monomer Salt Single Crystals Hiroki Fujisawa,Meguya Ryu,Daniel Alonso Cerron- Infantes,Miriam Unterlass,Shinji Ando <u>,Junko Morikawa</u>
13:00	2J14	Reactive all-atom molecular dynamics study on fracture process of semi-crystalline polyethylene Shuichi Uehara, <u>Yusuke Ootani</u> ,Chen Qian,Nobuki Ozawa,Momoji Kubo
	Is	amu Akiba, presiding
13:15	2J15	Study of PA6 thermal properties and natural degradation using low-frequency spectroscopy method <u>Jiacheng Gao</u>
13:30	2J16	Kinetic Pathway of Order-Order Transition in Diblock Copolymer by Time-resolved 3D Electron Microscopy <u>Wang Hsiaofang</u> ,Jinnai Hiroshi
13:45	2J17	DNP SANS study of water distribution in hair fiber microstructure at swollen state <u>Yohei Noda</u> ,Satoshi Koizumi,Tomoki Maeda,Takumi Inada,Mitsuki Tanaka,Aya Ishihara,Hiroyuki Inoue

Seiichi Kawahara, presiding

14:30	2J20	Solution Properties of Monodisperse Cross-linked Poly (acrylic acid) Particles Made by Radical Precipitation Polymerization <u>Kazuo Sakurai</u> ,Ryohei Ono,Shota Fujii
14:45	2J21	Microphase separation induced by the segregation of side chains in styrene-acrylic-acid alternating copolymers <u>Kazuo Sakurai</u> ,Takuma Kanamaru,Yuka Kitajima,Shota Fujii,Isamu Akiba
	Yo	hei Noda, presiding
15:00	2J22	Electro-Rheological Responses and Electrical Current Behavior of Suspensions based on Titanium Dioxide Nano-Particles <u>Katsufumi Tanaka</u> ,Takumi Uchikoshi,Yuki Maenaka,Midori Takasaki,Haruki Kobayashi
15:15	2J23	A molecular dynamics study to investigate the structure-property relationship of polyethylene under shear <u>Mohammed Althaf Hussain</u> ,Takashi Yamamoto,Shigeru Yao
15:30	2J24	Preparation and characterization of vulcanized natural rubber with high stereoregularity <u>Masaki Yamano</u> ,Yoshimasa Yamamaoto,Seiichi Kawahara

Fri. May 27

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

Kazue Kurihara, presiding

9:30	3J03	Sum Frequency Generation Imaging for Semi-Crystalline Polymer Films <u>Tatsuki Abe</u> ,Hironao Shimada,Taiki Hoshino,Daisuke Kawaguchi,Keiji Tanaka
9:45	3J04	Orientational Reorganization of Poly(methyl methacrylate) Chains at a Solid Interface <u>Daisuke Kawaguchi</u> ,Kazuki Sasahara,Manabu Inutsuka,Satoru Yamamoto,Keiji Tanaka
10:00	3J05	Swelling Behaviors of Poly(2-hydroxyethyl methacrylate) Adsorbed Layers in Underwater Environments <u>Kento Kawabata,</u> Norifumi Yamada,Hisao Matsuno,Keiji Tanaka
		Yoshimitsu Itoh, presiding
10:15	3J06	An Effect of Humidity on Thermal Molecular Motion of Isolated Poly(tert-butyl methacrylate) Chains on Substrates <u>Masayuki KAWANO</u> ,Yuma MORIMITSU,Yukari ODA,Daisuke KAWAGUCHI,Keiji TANAKA
10:30	3J07	Lubricity of Hyperbranched Polymers in Base Oil Studied by Resonance Shear Measurement <u>Yutaka TAKAHASHI</u> ,Masashi MIZUKAMI,Yuzhong HE,Masatoshi TOSAKA,Shigeru YAMAGO,Kazue KURIHARA
10:45	3J08	Aggregation of Double Hydrophilic Poly(2-ethyl-2- oxazoline)/Polycarboxybetaine Diblock Copolymers in Aqueous Environments <u>Yuji Higaki</u> ,Takumi Masuda,Mai Nakamura,Naoki Kuraoka,Masaya Takahashi
		Daisuke Kawaguchi, presiding
11:00	3J09	Non-close-packed arrangement of particles on solid substrates

		formed by drying dispersions <u>Yuma Sasaki</u> ,Seina Hiroshige,Masaya Takizawa,Yuichiro Nishizawa,Takayuki Uchihashi,Haruka Minato,Daisuke Suzuki
11:15	3J10	Novel Synthetic Method for Free-Standing Reticular Polymeric Nanomembranes under Unique Electrochemical Conditions <u>Yoshimitsu ITOH</u> ,Tengfei FU,Pier-Luc CHAMPAGNE,Takuzo AIDA
11:30	3J11	Hysteresis on assembly/disassembly of gold nanodiscs coated with thermoresponsive molecules <u>Joshua Chidiebere MBA</u> ,Hideyuki Mitomo,Yusuke Yonamine,Kuniharu Ijiro
	Yu	ichi Masubuchi, presiding
12:30	3J12	Kinetics of Curing Reaction for Compounds with Different Number Densities of Epoxide Groups <u>Satoru Yamamoto</u> ,Keiji Tanaka
12:45	3J13	Cross-Linking Effect on Time-Temperature Scaling of Epoxy Resins <u>Atsuomi Shundo,</u> Mika Aoki,Satoru Yamamoto,Keiji Tanaka
12.00	2 11 4	
13:00	3J14	Influence of Monomer Symmetry on Higher-Order Structure and Thermal Conductivity of Cured Epoxy Resins <u>Rika Marui</u> ,Yuta Nabae,Teruaki Hayakawa
13:15	3J15	Mechanochromism and mechanical performance of polyurethanes with mechanoresponsive molecular frameworks <u>Yuto Kubota</u> ,Yuchen Mao,Akira Ishigami,Yutaka Kobayashi,Hiroshi Ito,Takuma Watabe,Daisuke Aoki,Hideyuki Otsuka
	Na	oko Yoshie, presiding
13:30	3J16	Effect of Bentonite on Gelation of Acrylamide <u>Yuya Doi</u> ,Haruka Kizu,Takumitsu Kida,Takashi Uneyama,Yuichi Masubuchi
13:45	3J17	Marked Sensitivity of Ultimate Elongation to Loading Axiality in Polyrotaxane Gels with Largely Slidable Cross-Links <u>Takuma Aoyama</u> ,Kazuaki Kato,Kenji Urayama
	Da	isuke Aoki, presiding
14:15	3J19	Structural design of core-shell hydrogel microspheres <u>Yuichiro Nishizawa</u> ,Daisuke Suzuki
14:30	3J20	Synthesis and characterization of tough multiphase elastomer with metal-ligand coordination <u>Xiangyuan Guo</u> ,Shintaro Nakagawa,Naoko Yoshie

Room K

Wed. May 25

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Shinji Ando, presiding

10:001K05Control of Helical Nanostructures of Chiral-Nematic Liquid
Crystals in Super-Monodispersed Polymeric Particles

		<u>Tomoki Shigeyama</u> ,Kyohei Hisano,Osamu Tsutsumi
10:15	1K06	Study for molecular simulation of polymer chain aggregation and spread for photoalignment of fluorine-containing polyimide <u>Hitoshi Sugiyama</u> ,Shuichi Sato,Kazukiyo Nagai
10:30	1K07	Fabrication and polarized waveguiding analysis of terpolymer- based optical fiber doped with phthalocyanine derivatives. <u>Shintaro Haruyama</u> ,Takahiro Shigeyama,Rei Furukawa,Hayato Yamazaki
10:45	1K08	Analysis of the effect of copolymer in Zero-Birefringence polymer optical fiber on steady-state speed <u>Kimiteru Yamauchi</u> ,Rei Furukawa,Shingo Sode,Hayato Yamazaki
		Rei Furukawa, presiding
11:00	1K09	Analysis of Prolonged Irradiation-induced Delayed Luminescence of Imide Compounds Dispersed in Polymer Matrices <u>Marina Doi</u> ,Mayuko Nara,Ryohei Ishige,Shinji Ando
11:15	1K10	Photophysical Analysis of Phosphorescence Enhancement of Bromine-Containing Phosphorescent Polyimides under High Pressure
		<u>Ryuichi Isoda</u> ,Koichiro Muto,Marina Doi,Ryohei Ishige,Shinji Ando
11:30	1K11	Construction of insulating layer with mechanical stability on the surface of nickel-plated core particles <u>Tomonao Naruhashi</u> ,Tatsuo Taniguchi,Takashi Karatsu
		Kenji Miyatake, presiding
12:30	1K12	Nanoscale Mapping of Local Photocurrent of Ternary Blend Polymer Solar Cells by Photoconductive Atomic Force Microscopy <u>Chitlada MANI-LATA</u> ,Toshiki KAWANISHI,Yongyoon CHO,Manish PANDEY,Masakazu NAKAMURA,Hiroaki BENTEN
12:45	1K13	Correlation between Backbone Linkage Pattern and Photovoltaic Property in Thiazole-Based π-Conjugated Polymers <u>Yoshikazu Teshima</u> ,Masahiko Saito,Tsubasa Mikie,Itaru Osaka
13:00	1K14	Introduction of Rigid π-Planar Cations into Polymer Side Chains by Click Chemistry and Their Anion Conductivity <u>Yuki Motoishi,</u> Naoki Tanaka,Tsuyohiko Fujigaya
13:15	1K15	Preparation and Characterization of Solid Electrolytes Using Ion- Gels for Na-ion Batteries (I) -Effect of PVdF-HFP Composition on Various Properties- <u>Masaya Sato</u> ,Rei Takahashi,Yuko Takeoka,Masahiro Rikukawa,Masahiro Yoshizawa-Fujita
		Yuko Takeoka, presiding
13:30	1K16	Experimental and Theoretical Analysis on the Effect of Ether Sidechain on Electrochemical Properties for Polyether-Based Electrolytes with Cyano Groups <u>Kyoko Watanabe</u> ,Shintaro Saku,Namie Ikeda,Soichiro Yamanaka,Ryansu Sai,Yu Katayama,Kenta Fujii,Hiromori Tsutsumi
13:45	1K17	Acid Grafted Polybenzimidazole/ Sulfonated Silica Composite Membranes for Polyelectrolyte Membrane Application <u>Hiroto Miura</u> ,Yuki Motoishi,Tsuyohiko Fujigaya
14:15	1K19	Platinum nanoparticle/carbon nanotube composite film using a thiol-functionalized polymer for hydrogen production by water electrolysis <u>Osama Ramadan Mohamed Metawea</u> ,Miyuki Nara,Takeharu

		Murakami,Satoshi Wada,Katsushi Fujii,Yoshihiro Ito,Masuki Kawamoto
14:30	1K20	ePTFE reinforced, sulfonated polyphenylene membranes for durable PEMFCs Zhi Long, <u>Kenji Miyatake</u>
	Yo	shiko Miura, presiding
14:45	1K21	Crosslinked Centrifugally Spun Polyimide Fibers for Oil Removal Application <u>Masaki Negoro</u> ,Kenji Kinashi,Wataru Sakai
15:00	1K22	Development of Elution-Order Switchable Chiral Stationary Phases Based on Helical Polyacetylene Brushes <u>Tatsuya Nishimura</u> ,Misaki Yoshida,Daisuke Hirose,Tsuyoshi Taniguchi,Katsuhiro Maeda
15:15	1K23	Selectable Oil-Water Separation Membrane using a Self-organized Honeycomb Film <u>Bihai CHEN</u> ,Takehiko WADA,Hiroshi YABU
15:30	1K24	Metal-Organic Frameworks for Structure Recognition and Separation of Polymers <u>Nobuhiko Hosono</u> ,Takashi Uemura
	Та	kashi Uemura, presiding
16:00	1K26	Evaluation of the interaction between carbon dioxide and Poly (ether-block-amide) block copolymer <u>Sinan FENG</u> ,Ryosuke MATSUNO,Nutthon YOKACHUKSUSE,Atsushi TAKAHARA
16:15	1K27	A multifunctional diblock oligomer with a completely uniform steric structure that recognizes peptides. <u>Shota Iseri</u> ,Sotaro Akashi,Yusuke Sito,Hinako Iwamoto,Masanori Nagao,Yu Hoshino,Yoshiko Miura
16:30	1K28	Continuous flow synthesis process with polymer immobilized organo catalyst of polymer monolith <u>Yoshiko Miura</u> ,Seiya Nonaka,Matsumoto Hikaru,Tomoki Imoto,Masanori Nagao,Yu Hoshino
16:45	1K29	Synthesis of polymer microsphere-immobilized MacMillan catalyst and its application to asymmetric Diels-Alder reaction in continuous flow system <u>Md Azgar Ali</u> ,Joh Yamada,Naoki Haraguchi

Thu. May 26

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Takeshi Serizawa, presiding

9:30	2K03	Gas Sorption Property in Low-elastic PDMS Rubber Powder at Low Temperature <u>Mizuki Inoue</u> ,Edhuan Ismail,Sadaki Samitsu,Hirofumi Kanoh,Izumi Ichinose
9:45	2K04	Evaluation of mechanical property of functional films based on sulfobetaine-modified poly(buthylene succinate) <u>Nalinthip CHANTHASET</u> ,Utana NARUKAWA,Hiroharu AJIRO
10:00	2K05	Fabrication of polythiophene elastomer with cyclic siloxane as cross-linking points

		<u>Takuya Matsumoto</u> ,Masaki Kashimoto,Atsunori Mori,Takashi Nishino
10:15	2K06	A Simple and Versatile Method for Designing Tough Hydrogels Using Entanglement of Polymer Chains <u>Takashi Miyata</u> ,Chika Hajime,Yuino Inamoto,Chisa Norioka,Akifumi Kawamura
	Т	akashi Miyata, presiding
10:30	2K07	Influence of Polyglycerol Addition on Physical Properties of Poly(vinyl alcohol) Hydrogels Ayano Yamamoto, <u>Tooru Ooya</u>
10:45	2K08	Making polymer gels viscostic: Reactivity of crosslinker in radical copolymerization affects viscoelasticity and adhesiveness <u>Tsukuru Masuda</u> ,Yui Saegusa,Toshikazu Tsuji,Madoka Takai
11:00	2K09	Development of highly viscose zwitterionic hydrogels toward biocompatible adhesive materials <u>Yui Saegusa</u> ,Tsukuru Masuda,Toshikazu Tsuji,Madoka Takai
11:15	2K10	Emergent Synchronous Oscillation Behavior in Hierarchically Structured Self-oscillating Gel Cluster <u>WON SEOK LEE</u> ,Takafumi Enomoto,Mizutani Aya Akimoto,Ryo Yoshida
11:30	2K11	Preparation of Cellulose Oligomer-Based Robust Composite Hydrogels via In Vitro Enzymatic Synthesis <u>Yuta Sakurai,</u> Toshiki Sawada,Takeshi Serizawa
	S	husaku Nagano, presiding
12:30	2K12	Dissipative Self-assembly of Stimuli-responsive Polymers Driven by Redox Catalysis <u>Takafumi Enomoto,</u> Aya M. Akimoto,Ryo Yoshida
12:45	2K13	Propagating wave by billions of nanosheets for mass transport <u>Koki Sano</u> ,Yasuhiro Ishida
13:00	2K14	Synthesis of asymmetrically substituted graphene nanoribbons as a functional material Patel Karan, <u>Shunpei Nobusue</u> ,Takahiro Kojima,Hiroshi Sakaguchi
13:15	2K15	Synthesis of thermoplastic poly(2-methoxyethyl acrylate)-based polyurethane <u>Tomoki Maeda,</u> Shunsuke Tazawa,Atsushi Hotta
	\mathbf{J}	unko Morikawa, presiding
13:30	2K16ILI	Hypersonic phonon propagation in architected soft matter <u>Yu Cang</u> ,George Fytas
	Y	asuhiro Ishida, presiding
14:15	2K19	Effects of photo-isomerisable side groups on phase and mechanical properties of main-chain nematic elastomers <u>Takuya Ohzono,</u> Emiko Koyama
14:30	2K20	Reversible Thermal- and Photo- Mechanical Effects of Main Chain Liquid Crystalline Polymers Containing an Azobenzene Moieties <u>Ryoma Amanuma</u> ,Ayumi Kobayashi,Kohei Iritani,Takashi Yamashita
14:45	2K21	Photoalignment of polymer thin film forming smectic liquid crystalline lamella structure and proton conductive anisotropy <u>Kazuya Hirata</u> ,Fangfang Wang,Yuki Nagao,Kota Suetsugu,Shusaku Nagano

15:00	2K22	Removal of Viruses from Their Cocktail Solutions by Ionic Liquid- Crystalline Water-Treatment Membranes <u>Takeshi Sakamoto</u> ,Daniel Kuo,Shotaro Torii,Miaomiao Liu,Hiroyuki Katayama,Takashi Kato
15:15	2K23	Development of ionic liquid-crystalline polymer membrane actuators <u>Che-Hao Wu</u> ,Masafumi Yoshio

Fri. May 27

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Shin-ichi Yusa, presiding

9:30	3K03	Effect of End Groups on Axle polymer Folding in Pseudo- polyrotaxane Nanosheet <u>Haruki Kazumi</u> ,Shuntaro Uenuma,Hideaki Yokoyama,Kohzo Ito				
9:45	3K04	Synthesis and function of catechol modified pseudo-polyrotaxane nanosheets				
		Junshin Takeda, Shuntaro Uenuma, Hideaki Yokoyama, Kohzo Ito				
10:00	3K05	Luminescence Properties of Cyclosiloxane-AIE Molecular Assemblies <u>Manmian Chen</u> ,Huie Zhu,Masaya Mitsuishi				
10:15	3K06	Construction and Biosensing Application of Cellulose Assemblies with Surface Oligo(ethylene glycol) Chains <u>Kai Sugiura</u> ,Toshiki Sawada,Hiroshi Tanaka,Takeshi Serizawa				
10:30	3K07	Fabrication of poly(ether ketone) nanofibers by solution electrospinning <u>Tomoyuki Nomura,</u> Tomoki Maeda,Atsushi Hotta				
	Masaya Mitsuishi, presiding					
10:45	3K08	Preparation and Characterization of Biocompatible Polyion Complex (PIC) Micelles with Random Copolymers containing Pendant Sulfonate and Quaternary Amino Groups <u>Shukanta Bhowmik</u> ,Shin-ichi Yusa				
11:00	3K09	Synthesis of Strongly Segregating PS-b-PMMA Derivatives by Precision Polymerization and Post-functionalization and the Structural Control in the Thin Films <u>Shinsuke Maekawa</u> ,Lei Dong,Takehiro Seshimo,Takahiro Dazai,Kazufumi Sato,Yuta Nabae,Teruaki Hayakawa				
11:15	3K10ILI	Functional Fibers for Environmental Solutions <u>Varol Intasanta</u>				
	Hi	roshi Eguchi, presiding				
12:30	3K12	Dispersion Characteristics of Polypropylene/Organo-Modified Single-Walled Carbon Nanotube Composites with a Long-Chain Phosphonic Acid Added as the Third Dispersant Component and Their Drawn Orientation <u>Almarasy Ahmed</u> ,Harada Ko,Kai Xu,Astuhiro Fujimori				
12:45	3K13	Visualization and Quantification of Accumulated Tensile Stresses by Composites of Layered Polydiacetylene and Polyurethane <u>Yuki Mochizuki</u> ,Hiroaki Imai,Yuya Oaki				
13:00	3K14	Visualization and quantification of three-dimensional compression-stress distribution by integration of layered				

polydiacetylene and dry liquid <u>Nahoko Ono,</u>Hiroaki Imai,Syuji Fujii,Yuya Oaki

Yuya Oaki, presiding

13:15	3K15	Sythesis and Characterization of Cyclosiloxane Polymer Networks
		<u>HUIE ZHU</u> ,YUHI WATANABE,MASAYA MITSUISHI

- 13:30 3K16 Preparation of Plasma Modified Carbon Nanotubes Reinforced Polyimide Nanocomposites <u>Seira Morimune-Moriya</u>,Yuki Iwamura,Daisuke Ogawa,Keiji Nakamura
- 13:45 3K17 Thermal, Electrical, and Tribological Properties of Cellulose Nanofiber/Graphite/Epoxy Composite Materials <u>Hiroshi Eguchi</u>,Yukiya Koyama,Kenji Nagata

Keiji Tanaka, presiding

- 14:15 3K19 Preparation of Linear and Cyclic Poly(2-methoxyethyl acrylate)grafted Substrates with Slightly Difference of Hydration States and Evaluation of Cell Adhesion Behavior onto These Surfaces <u>Shinnosuke Nishimura</u>,Shohei Shiomoto,Tomoya Ueda,Daiki Murakami,Masaru Tanaka
- 14:30 3K20 Analysis of Hydration Behavior for Linear and Cyclic Poly(2methoxyethyl acrylate) Monolayers by Frequency Modulation Atomic Force Microscopy <u>Shohei Shiomoto</u>,Shin-nosuke Nishimura,Tomoya Ueda,Daiki Murakami,Masaru Tanaka
- 14:45 3K21 Formation of Insulating Coating by an Electrodeposition Technique Using Soluble Polyimide Having Methacrylate Groups <u>Yasuhiro Funayama</u>,Ayumi Kobayashi,Rumana Nozawa,Nagisa Ito,Kohei Iritani,Daisuke Misho,Hideyuki Kikuchi,Thi Thi Nge,Tatsuhiko Yamada,Takashi Yamashita

Masaru Tanaka, presiding

- 15:00 3K22 Design of amphiphilic bottlebrush copolymers as a surface modifier for anti-biofouling <u>Masayasu Totani</u>, Junko Katayama, Masaaki Ozawa, Nobutomo Tsuruzoe, Hisao Matsuno, Keiji Tanaka
 15:15 3K23 Regulation of Cellular Behaviors on Thin Polymer Films Based on Subsurface Mechanical Response <u>Hisao Matsuno</u>, Kento Kawabata, Masayasu Totani, Keiji Tanaka
- 15:30 3K24 Characterization of surface potential and fixed aqueous layer of well-defined cationic polymer brush <u>Tsukuru Masuda</u>,Yoichi Watanabe,Madoka Takai

Room L

Wed. May 25

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

Takashi Kitao, presiding

12:30 1L12ILI Construction and Self-recovery of Supramolecular Chirality in an Absolute Achiral Polymer System

		<u>Wei Zhang</u> ,Tengfei Miao
13:00	1L14	Control of Higher-Order Structures of Diblock Copolymers by Modification of Side Chain Functional Groups <u>Kodai Nagashima</u> ,Yuta Nabae,Teruaku Hayakawa
	Yu	ta Nabae, presiding
13:15	1L15	Fabrication of ultrathin polyacrylonitrile nanosheet using metal- organic framework <u>Xiyuan Zhang</u> ,Saito Ami,Takashi Kitao,Takashi Uemura
13:30	1L16	Synthesis of a Polycyclic Polymer Possessing Dense 1,2,3-Triazole Backbone and Its Interaction with Palladium Dichloride <u>Linlin XU</u> ,Yuri KAMON,Masaki NAKAHATA,Akihito HASHIDZUME
13:45	1L17	Synergistic dual transition metal catalysis for the synthesis of semiconducting polymers <u>Christine Keiko Luscombe</u> ,Liwen Xing
14:15	1L19	Improved Degradability of Poly(Lactic Acid) by Introducing Thionoester Linkage <u>Tomohiro Kubo</u> ,Kotaro Satoh
	То	mohiro Kubo, presiding
14:30	1L20	Substituents effect on self-alternating polymerization behavior of 1-(4-vinylphenyl)-1-phenylethylene derivatives <u>Hamin Kim</u> ,Raita Goseki,Takashi Ishizone
14:45	1L21	Ring-opening copolymerization of a cyclic carbonate monomer having ortho-nitrobenzyl moiety and photo-degradability of the copolymers <u>Jiade WU</u> ,Masatoshi TOSAKA,Shigeru YAMAGO
15:00	1L22	Accessing Divergent Main-Chain-Functionalized Polyethylenes via Copolymerization of Ethylene with a CO2/Butadiene-derived Lactone Shang Tang,Yajun Zhao, <u>Kyoko Nozaki</u>
15:15	1L23	Synthesis of ABA-type Block Copolymers by Combination of Acyclic Diene Metathesis (ADMET) polymerization with Ring- Opening Polymerization (ROP) Kotohiro NOMURA, <u>Mohamed Mehawed Abdellatif</u>
	Ко	tohiro Nomura, presiding
15:30	1L24	Pore engineering of magnesium ethoxide-based Ziegler-Natta catalyst through modulator approach <u>Patchanee Chammingkwan</u> ,Le Thi Tuyet Mai,Minoru Terano,Toshiaki Taniike
16:00	1L26	Synthesis of Novel Functional Bio-Based Polystyrenes by Precision Polymerization of Ester-Protected Vinyl Catechols <u>Shiho Tanizaki</u> ,Tomohiro Kubo,Kotaro Satoh
16:15	1L27	Novel main-chain degradable vinyl polymers using trigger- responsive comonomers <u>Sota Yamamoto</u> ,Tomohiro Kubo,Kotaro Satoh

Thu. May 26

D. BIOPOLYMERS AND BIORELATED POLYMERS "English Session"

Takeshi Mori, presiding

9:30	2L03	Study of solvent effects on peptide assembly to understand the behavior of biological water <u>Avanashiappan Nandakumar</u> ,Yoshihiro Ito,Motoki Ueda
9:45	2L04	The hierarchic structure of catch-thread spider silk enables the pinning of water droplets Taro Echizen, <u>Olaf Karthaus</u>
10:00	2L05	Rational design of PS-mimetic polymers and their anti- inflammatory effect. <u>Shunsuke Matsumoto</u> ,Akari Tasaki,Yihua Liu,Mitsuhiro Ebara
10:15	2L06ILI	Efficacy of Antioxidant Nanoparticles against Acute Radiation Syndromes (ARS) in Mice Model <u>Chitho P. Feliciano</u> ,Yukio Nagasaki
	Eij	i Yuba, presiding
10:45	2L08	Development of smart nanofiber mesh combined with hyperthermia and chemotherapy for the treatment of glioblastoma <u>Emiho Oe</u> ,Mitsuhiro Ebara,Yoshitaka Matsumoto
11:00	2L09	Preparation of Nylon-4-based nanoparticles and applications in the treatment of depression disease <u>Duc Tri Bui</u> ,Yukio Nagasaki
11:15	2L10ILI	Nanocomplex-mediated in vivo CAR-M1 macrophage therapy for solid tumors <u>Hee Ho Park</u>
	Sa	chiro Kakinoki, presiding
12:30	2L12	Design of nanofiber meshes for the removal of excess electrolyte from kidney failure patient <u>Kaho Takahashi</u> ,Motohiro Ebara
12:45	2L13	Temperature Responsive Smart Polymer for Enabling Affinity Enrichment of Current Coronavirus (SARS-CoV-2) to Improve its Diagnostic Sensitivity <u>Ahmed Nabil</u> ,Mitsuhiro Ebara
13:00	2L14	Reactive Oxygen Species Mediates the Mechanically-Induce Senescence of Breast Cancer Multicellular Aggregates on the Polymer Melt <u>Mazaya Najmina</u> ,Koichiro Uto,Mitsuhiro Ebara
	Mi	tsuhiro Ebara, presiding
13:15	2L15	Preparation of folic acid-functionalized composite scaffolds of gelatin and gold nanoparticles <u>Huajian Chen</u> ,Xiuhui Wang,Naoki Kawazoe,Guoping Chen
13:30	2L16	Investigation of the effect of viscosity on osteogenic differentiation of mesenchymal stem cells on micropatterned surfaces <u>Jing Zheng</u> ,Yongtao Wang,Naoki Kawazoe,Guoping Chen
13:45	2L17	Evaluation of physical and functional properties of chitosan- based films incorporating curcumin nanoemulsion <u>Fakfan Luangapai</u> ,Methavee Peanparkdee,Satoshi Iwamoto