Room A

Wed. May 23

INVITED LECTURES

	M	I. Higuchi, presiding
10:15	1A06IL	Biomatter-based design and development of functional polymers <u>Takeshi Serizawa</u>
	A	. Usuki, presiding
11:00	1A09IL	Recent trend in applications of cellulose nanofibers to polymer materials <u>Akira Isogai</u>
	M	I. Suzuki, presiding
12:30	1A12IL	Stimuli-responsive supramolecular systems guided by chemical reactions $\underline{\text{Masato Ikeda}}$
	s	. Kutsumizu, presiding
13:15	1A15IL	New Polymer Morphologies Created by Complex Multi-component Polymer Systems

AWARD LECTURES

E. Ihara, presiding

Yushu Matsushita

14:00	1A18AL	Polymers with Intrinsic Porosities: Synthesis, Structure, Properties and
		Applications
		Swaminathan Sivaram, Chilukuri. V. Avadhani, Vikas Kumar, Shyambo
		Chatterjee

T. Kitayama, presiding

15:00 1A22AL Precision Design of Complex Macromolecular and Hybrid Nanostructures Axel H. E. Müller

A. Takahara, presiding

15:45 1A25AL Molecular Structures and Assemblies Maximizing Properties of Advanced Functional Polymers

Moonhor Ree

Y. Tezuka, presiding

16:30 1A28AL 2D Polymers: Synthesis, Characterization, Application A. Dieter Schlüter

Thu. May 24

AWARD LECTURES

M. Maeda, presiding

9:30 2A03AL Development of Spray Type Adhesion Barrier
Naotaka Chino, Hiroyuki Ishihara, Taishi Niimi, Miho Kai, Tetsuro Kawanishi

INVITED LECTURES

	Y.	Chujo, presiding
10:15	2A06IL	Multifunctional Supramolecular Platforms with Stimuli-Responsive Surface $\underline{\text{Chulhee Kim}}$
	N.	Yoshie, presiding
11:00	2A09IL	Nanocrystal-Based Polymer Nanocomposites: Future of Optoelectronics Kookheon Char
		AWARD LECTURES

S. Aoshima, presiding

12:30 2A12AL Design of artificial chaperones to engineer biomolecular functions Atsushi Maruyama

M. Shibayama, presiding

13:15 2A15AL Shape Persistence Micelles with the Same Aggregation Numbers with the Platonic Solids Kazuo Sakurai

INVITED LECTURES

T. Doi, presiding

14:00 2A18IL Highly sensitive photopolymers based on cascade-type chemistry Koji Arimitsu

M. Kamigaito, presiding

15:00 2A22IL Precision Polymer Synthesis Using Visible Light Cyrille A. Boyer

S. Izawa, presiding

15:45 2A25IL Recent Trends and Outlook in Acrylonitrile-Butadiene-Styrene Compounding Industry in China
Jian Zhang, Ting Zhou, Guifang Shan, Wenqiang Li, Lei Gao, Minghua Luo, Min
Oi Xin

Fri. May 25

INVITED LECTURES

K. Inomata, presiding

9:30 3A03IL Synthesis of Cyclic Vinyl Polymers by Ring-Closing Strategy without Entropic Penalty (Highly Diluted Condition)
Akinori Takasu

AWARD LECTURES

T. Suzuki, presiding

10:15 3A06AL Fundamental Research of Radical Polymerizations using Electron Spin Resonance (ESR) Spectroscopy
<a href="https://doi.org/10.1007/j.jps.1007/j.ps.1007/j.jps.1007/j

I. Tomita, presiding

11:00 3A09AL Development of New Polymeric Materials Based on Electronic States of Group
14 Heavy Elements
Joji Ohshita

H. Yokoyama, presiding

12:30 3A12AL Development of macroscopically oriented polymer gels using magnetic fields Yasuhiro Ishida

K. Tanaka, presiding

13:15 3A15AL Rational Molecular Design for Control of Monomer Sequence and Ring-Expansion Polymerization Makoto Ouchi

H. Asanuma, presiding

14:00 3A18AL Fabrication of bio-nano hybrid materials based on molecular self-assembly Yoshihiro Sasaki

Room B

Wed. May 23

POLYMERS TODAY AND BEYOND

H. Asanuma, presiding

10:15	1B06IL	Next Generation Batteries for EVs Contributing to CO2 Reduction <u>Kiyoshi Kanamura</u>
11:00	1B09IL	Functionalization of Lithium-ion Battery Separators by Coating Technology Satoshi Nishikawa
	H	. Nakamura, presiding
12:30	1B12IL	Expectation for Automotive polymer under the current circumstances

Takayuki Nagai

13:15 1B15IL Development of Carbon Fiber Composite Material for Automotive Applications.

Yukitane Kimoto

S. Kobayashi, presiding

Shojiro Kaita

14:00	1B18IL	Cutting edge technologies and equipment for CFRP parts (Thermoplastic and thermoset) <u>Takahiro Oniwa</u> , Hisashi Toyama
15:00	1B22IL	Hybrid technologies based on reactions at the interfaces and the future <u>Mitsuteru Mutsuda</u>
15:45	1B25IL	Next-Generation Tire Materials to Realize a Sustainable Society

Thu. May 24

POLYMERS TODAY AND BEYOND

	K	. Nagase, presiding
9:30	2B03IL	SDGs; Opportunities for Science, Technology and Innovation in an Era of Transformation <u>Takao Kuramochi</u>
	Н	. Fujimura, presiding
10:15	2B06IL	Dow 2025 Sustainability Goals - Redefine the role of business in society Yuichi Urano
	S	. Ogawa, presiding
11:00	2B09IL	Sumitomo Chemical Group's initiatives for SDGs <u>Kanako Fukuda</u>
	S	. Matsumura, presiding
12:30	2B12IL	Konica Minolta's R & D, -"SHINKA" to become a digital company with insight into implicit challenges - $\underline{\text{Hiroshi Kita}}$
	A	. Nanasawa, presiding
13:15	2B15IL	R&D management of the DIC group that provides Color & Comfort <u>Kazunari Sakai</u>
	M	. Yokota, presiding
14:00	2B18IL	R&D Strategy of Sumitomo Bakelite Group To create and provide smiles Koji Choki
Fri. M	ay 25	
	•	DOLUMEDO MODAY AND DEVOND
	•	POLYMERS TODAY AND BEYOND
		POLYMERS TODAY AND BEYOND . Nakamura, presiding
9:30		
9:30	н 3B03IL	. Nakamura, presiding Development of Polymer Thin Film (Nanosheet)-type Devices for Health and Medical Care
9:30 10:15	н 3B03IL	. Nakamura, presiding Development of Polymer Thin Film (Nanosheet)-type Devices for Health and Medical Care <u>Shinji Takeoka</u>
	н 3B03IL	. Nakamura, presiding Development of Polymer Thin Film (Nanosheet)-type Devices for Health and Medical Care Shinji Takeoka . Yokoi, presiding Novel medical adhesive LYDEX which is excellent in the safety and functionality using a natural polymer
10:15	3B03IL H 3B06IL 3B09IL	Development of Polymer Thin Film (Nanosheet)-type Devices for Health and Medical Care Shinji Takeoka Yokoi, presiding Novel medical adhesive LYDEX which is excellent in the safety and functionality using a natural polymer Shokyu Gen (Suong-Hyu Hyon) Polymer Materials for Medical Devices
10:15	3B03IL H 3B06IL 3B09IL	Development of Polymer Thin Film (Nanosheet)-type Devices for Health and Medical Care Shinji Takeoka Yokoi, presiding Novel medical adhesive LYDEX which is excellent in the safety and functionality using a natural polymer Shokyu Gen (Suong-Hyu Hyon) Polymer Materials for Medical Devices Tetsuro Kawanishi
10:15 11:00	3B03IL H 3B06IL 3B09IL H 3B12IL	Development of Polymer Thin Film (Nanosheet)-type Devices for Health and Medical Care Shinji Takeoka Yokoi, presiding Novel medical adhesive LYDEX which is excellent in the safety and functionality using a natural polymer Shokyu Gen (Suong-Hyu Hyon) Polymer Materials for Medical Devices Tetsuro Kawanishi Nakamura, presiding Design of biocompatible soft-biomaterials for medical devices
10:15 11:00	3B03IL H 3B06IL 3B09IL H 3B12IL	Development of Polymer Thin Film (Nanosheet)-type Devices for Health and Medical Care Shinji Takeoka Yokoi, presiding Novel medical adhesive LYDEX which is excellent in the safety and functionality using a natural polymer Shokyu Gen (Suong-Hyu Hyon) Polymer Materials for Medical Devices Tetsuro Kawanishi Nakamura, presiding Design of biocompatible soft-biomaterials for medical devices Masaru Tanaka
10:15 11:00 12:30	3B03IL 3B06IL 3B09IL 4B3B12IL H	Development of Polymer Thin Film (Nanosheet)-type Devices for Health and Medical Care Shinji Takeoka Yokoi, presiding Novel medical adhesive LYDEX which is excellent in the safety and functionality using a natural polymer Shokyu Gen (Suong-Hyu Hyon) Polymer Materials for Medical Devices Tetsuro Kawanishi Nakamura, presiding Design of biocompatible soft-biomaterials for medical devices Masaru Tanaka Yokoi, presiding Polymer Materials for Blood Purification Therapies

Wed. May 23

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

		T. Uemura, presiding
10:00	1C05	Development of sulfur-free RAFT agent for novel living radical polymerization <u>Maki Amano</u> , Hisaaki Takeshima, Mineto Uchiyama, Kotaro Satoh, Masami Kamigaito
10:15	1C06	Controlled Polymerization of Bio-Based Styrene Derivatives via Various Growing Active Species <u>Hisaaki Takeshima</u> ,Kotaro Satoh,Masami Kamigaito
10:30	1C07	Sequence-Regulated Polymers via Atom Transfer Radical Addition and Thiol- Ene Polyaddition: Effect of the Sequence of Vinyl Monomers Yoshiko TANAKA, Mineto UCHIYAMA, Koutaro SATOH, Masami KAMIGAITO
		S. Yamago, presiding
10:45	1C08	Synthesis of sequence-regulated vinyl polymers using a metal-organic framework <u>Shuto Mochizuki</u> ,Susumu Kitagawa,Takashi Uemura
11:00	1C09	Fabrication of ultrathin polymer films at the molecular level using pillared- layer metal-organic frameworks <u>Shuto Mochizuki</u> ,Takashi Uemura
11:15	1C10	Making theoretical significance of Q-e value by comptational chemistry Ryo Nishikubo, Yoshihiro Hayashi, Susumu Kawauchi
11:30	1C11	Photoinitiator-free photopolymerization of common acrylate monomers with 254-nm light Masahiro Furutani, Takashi Ide, Shinobu Kinoshita, Raita Horiguchi, Ichiro
		Mori, Kazuhiro Sakai, Koji Arimitsu
		K. Satoh, presiding
12:30	1C12	Living radical polymerization of N-vinyl monomers using organotellurium compounds <u>Weijia Fan</u> ,Shigeru Yamago
12:45	1C13	Synthesis of structurally controlled hyperbranched polystyrene through a designed monomer with hierarchical reactivity. Yangtian LU, Shigeru YAMAGO
13:00	1C14	Synthesis of structurally controlled core-shell block copolymers with thermal responsive solution properties <u>Yiming LIN</u> , Yangtian LU, Shigeru YAMAGO
13:15	1C15	Effect of viscosity on tellanyl radical-mediated chain transfer reaction Xiaopei LI, Yasuyuki NAKAMURA, Shigeru YAMAGO
		H. Mori, presiding
13:30	1C16	Radical-radical coupling reaction based on the regioselective radical addition to [4]dendralene Yuji Imamura, Takehiro Fujita, Madison J. Sowden, Michael S. Sherburn, Shigeru Yamago
13:45	1C17	Precision Alternating Copolymerization of Styrene and Maleimide: Molecular Design toward Sequence Analysis and Alternating-Oriented Functions Kana Nishimori, Takaya Terashima, Makoto Ouchi
14:00	1C18	Alternating copolymer of methacrylic acid and acrylamides: Diverse side chain

14:15	1C19	Cleavable and Transformable Monomer for Sequence Control via Radical Addition and Polymerization <u>Dongyoung Oh</u> , Takaya Terashima, Makoto Ouchi
14:30	1C20	Additive Effect of Protic Solvent on Controlled Radical Polymerization of Styrene Bearing Electron Donating Group <u>Hayato Yoshioka</u> , Kazuo Yamaguchi, Motoyasu Kobayashi
	M	. Ouchi, presiding
14:45	1C21	Living Radical Polymerization of Ethyl Acrylate using the Initiator with \$pi;-Conjugated Structure <u>Tomoyuki Ono</u> ,Shotaro Hayashi,Ryousuke Hirai,Toshio Koizumi,Shin-ichi Yamamoto
15:00	1C22	Synthesis of Triblock Copolymers Containing Rigid Polyfumarate Segment by RAFT polymerization Nagisa Tsuji , Kohei Takada, Akikazu Matsumoto
15:15	1C23	Synthesis of iso-polyacrylonitrile and its dielectric properties <u>YU WANG</u> ,RYOTA NAKAMURA,TAKEO SUGA,KENICHI OYAIZU,HIROYUKI NISHIDE
15:30	1C24	Relationship between Reactivity of Radical Copolymerization and Thermoresponsive Property of Hydrophilic/Hydrophobic Copolymer Gels <u>Daiki Nishisako</u> ,Shohei Ida,Shokyoku Kanaoka
15:45	1C25	Homopolymerization of Vinyl Ethers Shinji Sugihara,Ayano Yoshida, <u>Tsuyoshi Takayama</u> ,Takaaki Kouno,Masahiro Sudo,Yasushi Maeda
	S	. Kanaoka, presiding
16:00	1C26	Controlled synthesis of zwitterionic polymers containing tertiary sulfonium group Ryutaro Imamura, Mori Hideharu
16:15	1C27	Synthesis of ion-conducting polymers by radical polymerization of deep eutectic monomers Keiko Ajino , Kazuhiro Nakabayashi, Hideharu Mori
16:30	1C28	Solvent Effect on Radical Polymerization of Menthyl Acetamidoacrylate near Ceiling Temperature <u>Tsutomu Sawada</u> ,Miki Niwa,Hitoshi Tanaka
16:45	1C29	Radical Polymerization of Chiral Oxazolidinone Bearing Benzoyl Group Miki Niwa, Hajime Norisada, Hitoshi Tanaka

Thu. May 24

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

A. Matsumoto, presiding

9:30	2C03	Synthesis of polymethacrylate bearing tetrathiaspiro-ring Naoto Aoyagi, Takeshi Endo
9:45	2C04	Synthesis and polymerization behavior of the monomer bearing DBU structure <u>Shintaro Nagayama</u> , Takeshi Endo
10:00	2C05	Synthesis and degradation of polymer bearing cyclic hemiacetal ester pendants via radical polymerization of dehydroaspirin Akane Kazama , Yosuke Matsuhashi, Yasuhiro Kohsaka
10:15	2C06	Parallel control for polymer main-chain construction reaction and side-chain exchange reaction using acylhydrazone monomer <u>Kazutoshi Kobayashi</u> ,Kento Nakamura,Daisuke Nagai,Takeshi Yamanobe

	т.	Terashima, presiding
10:30	2C07	One-pot synthesis of sequence-controlled amino acid-derived vinyl polymers via RAFT polymerization. <u>Tsukasa Yamano</u> ,Nobuyuki Higashi,Tomoyuki Koga
10:45	2C08	One-Step Synthesis of Peptide-Vinyl Polymers Alternating Block Copolymers by Nitroxide-mediated Polymerization <u>Shinnosuke Nishimura</u> , Nobuyuki Higashi, Tomoyuki Koga
11:00	2C09	Synthesis and Evaluation of Thioglycerol Derivative RAFT Agents for Controlled Aqueous Oligomerization of Acrylamide Monomers. <u>Hinata Takimoto</u> , Shohei Taniguchi, Masanori Nagao, Yusuke Yonamine, Yu Hoshino, Yoshiko Miura
11:15	2C10	Synthesis of Micron-sized Hydrogel Microspheres for Visualizing Deformation at Air/Water Interface <u>Haruka Minato</u> ,Masaya Takizawa,Takumi Watanabe,Daisuke Suzuki
11:30	2C11	Preparation of fluorescent core-shell microgels <u>Kenshiro Honda</u> ,Takumi Watanabe,Yuka Saduka,Masaya Takizawa,Daisuke Suzuki
	K.	Kokado, presiding
12:30	2C12	Properties of cured bismaleimide resin using oligo(imidethioether)s having terminal maleimide groups <u>Morio Yonekawa</u> ,Keiko Ohtsuka,Hajime Kimura,Atsushi Miyata,Shinji Ikeshita
12:45	2C13	Synthesis and photochemical properties of near-infrared emitting graphene quantum dots possessing perimidine moieties Kairi Yamato , Kaho Suzuki, Ryo Sekiya, Takeharu Haino
13:00	2C14	Synthesis and Photoluminescence Properties of Diiminate Complexes Containing Group 13 Element Shunichiro Ito,Kazuo Tanaka,Yoshiki Chujo
13:15	2C15	Synthesis and Photoluminescence Properties of Boron Diiminate Complexes Having Multiple Aromatic Groups on the Ligand Moiety <u>Misao Yaegashi</u> ,Shunichiro Ito,Kazuo Tanaka,Yoshiki Chujo
	K.	. Takagi, presiding
13:30	2C16ILY	Design of functional soft materials utilizing various type cross-linking methods $\underline{\text{Mikihiro Hayashi}}$
14:00	2C18	Synthesis of Flexible and Symmetrical Ladder Polymers via Ring-Opening Reaction of Troeger's Base <u>Fumitaka Ishiwari</u> ,Nobuhiko Takeuchi,Takahiro Sato,Takanori Fukushima
14:15	2C19	Synthesis of polycarbonate and polyester containing Noria skeleton Kuta Kitagawa, Hiroto Kudou
	M	. Minoda, presiding
14:30	2C20	Synthesis of cyclic-polysulfide by living ring-expansion polymerization Syuto Onishi, Hiroto Kudou
14:45	2C21	Development of high sensitivity and resolution extreme ultraviolet laser resist material based on tannic acid Shizuya Ohori , Hiroto Kudo
15:00	2C22	Synthesis of High-Molecular-Weight Cyclopolymers of Divinyl Ethers via Controlled Cationic Cyclopolymerization and Star Polymer Formation <u>Takafumi Yamamoto</u> , Michio Urushisaki, Toshikazu Sakaguchi, Tamotsu Hashimoto
15:15	2C23	Synthesis and Properties of Star Polymers Having Two Segments with Different Solubility <u>Hiroki Ooishi</u> ,Shohei Ida,Satoshi Tanimoto,Shokyoku Kanaoka

K. Nakabayashi, presiding

15:30	2C24	Unique Thermoresponsive Behavior of Core-Crosslinked Star Poly(<i>N</i> -isopropylacrylamide) Yuri Toyama, <u>Shohei Ida</u> , Shokyoku Kanaoka
15:45	2C25	Assembling Behavior and Rheological Properties of Star Polymers with a Tripodal Triptycene Junction <u>Hibiki Ogiwara</u> , Yukihiro Yamashita, Tadahiro Kimura, Fumitaka Ishiwari, Masatoshi Tokita, Takanori Fukushima
16:00	2C26	Synthesis and physical properties of multicyclic poly(ε-caprolactone) <u>Yoshinobu Mato</u> ,Kohei Honda,Takuya Yamamoto,Takuya Isono,Kenji Tajima,Toshifumi Satoh
16:15	2C27	Facile synthesis of supramolecular A8B2 star-shaped copolymer via guest complexation of self-assembled coordination capsule Natsumi Nitta , Mei Takatsuka, Ryo Sekiya, Takeharu Haino

Fri. May 25

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

K. Sakakibara, presiding

9:30	3C03	Synthesis of Five- or Six-membered Cyclic Carbonates-grafted Hyperbranched Polyacetals <u>Hiroyuki Matsukizono</u> , Takeshi Endo
9:45	3C04	Synthesis of multibranched polymer by living anionic polymerization via exclusive metalation of tolyl units Kenta Mori, Ryosuke Tajima, junki Fukuda, Kaoru Adachi, yasuhisa Tsukahara
10:00	3C05	Synthesis and Application of Curable Hyperbranched Polymers Containing Dense Acetal Groups <u>Eriko Sato</u> ,Yoji Yamashita,Takashi Nishiyama,Hideo Horibe
10:15	3C06	Synthesis and phase separation of three kinds of diblock copolymers consisting of hyperbranched, p -, and m -aromatic polyamides and polystyrene Kenta HOKA, Yoshihiro OHTA, Takahiro KOMAMURA, Takeshi HIGUCHI, Yoshihito ISHIDA, Teruaki HAYAKAWA, Hiroshi JINNAI, Tsutomu YOKOZAWA
	K	. Adachi, presiding
10:30	3C07	Multi-compartmentalization and Sequence Control of Amphiphilic Polymer Nanoparticles via Ionic Interaction <u>Yasuyuki Ommura</u> ,Shota Imai,Makoto Ouchi,Takaya Terashima
10:45		
101.0	3C08	Precision Synthesis of Amphiphilic Graft Copolymers: Nanostructure Design via Sequence Control and Self-Assembly <u>Takehiro Itami</u> ,Goki Hattori,Makoto Ouchi,Takaya Terashima
11:00	3C08 3C09	via Sequence Control and Self-Assembly
		via Sequence Control and Self-Assembly <u>Takehiro Itami</u> , Goki Hattori, Makoto Ouchi, Takaya Terashima Synthesis of Bottlebrush Polymer Containing Polyallene Structure as Main Chain

E. Sato, presiding

12:30	3C12	Synthesis and reaction of well-defined poly(vinyl ether)s bearing different types of alkynyl groups at the terminus and pendants, respectively. <u>Tomoki Oka</u> ,Tomonari Tanaka,Jin Motoyanagi,Masahiko Minoda
12:45	3C13	Synthesis and Higher-Order Structures of Hybrid Polymers Consisting of Peptide-Conjugated Molecules Soki Sato, Shinya Takaoka, Yu Miyagi, Fumio Sanda
13:00	3C14	Synthesis of conductive core-shell polymeric nanoparticles for stretchable device.
		Jun Kosai, Chen-Tsyr Lo, Kazuhiro Nakabayashi, Hideharu Mori
	K	. Maeyama, presiding
13:15	3C15	Synthesis and optical properties of well-defined hyperbranched poly(thienylene-phenylene) by Kumada-Tamao catalyst-transfer condensation polymerization of AB ₂ monomer Toshiki Hirota, Yoshihiro Ohta, Tsutomu Yokozawa
13:30	3C16	Transition metal-catalyzed direct arylation of a cage silsesquioxane Satoshi Wada, <u>Hiroaki Imoto</u> ,Kensuke Naka
13:45	3C17	Synthesis of Luminophores-Integrated POSS Possessing Flexible Side-Chains <u>Hayato Narikiyo</u> ,Masayuki Gon,Kazuo Tanaka,Yoshiki Chujo
14:00	3C18	Preparation of lipophilic ions having bulky substituents and evaluation of their dissociability in non-polar solvents <u>Soukurou Sunaga</u> ,Kenta Kokado,Kazuki Sada

Room D

Wed. May 23

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

M. Uchiyama, presiding 10:00 1D05 Controlled Cationic Polymerization and Copolymerization of Trimethylsilyl Vinyl Ether: Precise Synthesis of Poly(Vinyl Alcohol) Precursors Ryusei Kato, Arihiro Kanazawa, Sadahito Aoshima 10:15 1D06 Cationic Polymerization of Phenyl Vinyl Ether Tomohito Asakawa, Arihiro Kanazawa, Sadahito Aoshima Controlled cationic copolymerization of o-phthalaldehyde and various vinyl 10:30 1D07 monomers Keisuke Hayashi, Arihiro kanazawa, Sadahito Aoshima A. Kanazawa, presiding 10:45 1D08 Block Copolymerization of Alicyclic Conjugated Dienes Derived from Naturally-Occurring Terpenes Takenori NISHIDA, Kotaro SATOH, Masami KAMIGAITO 11:00 1D09 Synthesis and Analysis of Precisely Designed Network-Polymer by Photo-Switchable Cationic/Radical Polymerization Nagisa ITO, Mineto UCHIYAMA, Kotaro SATOH, Masami KAMIGAITO 11:15 1D10 Photoredox Cationic Polymerization of Vinyl Ether Initiated from Alkoxyamine Masato KONYA, Mineto UCHIYAMA, Kotaro SATOH, Masami KAMIGAITO 11:30 Living cationic polymerization of vinyl ethers with a sulfide or sulfonyl group 1D11 yuhei watanabe, atsushi arisawa, takeshi namikoshi, shinji watanabe

T. Ishizone, presiding

12:30	1D12	Stereospecific living cationic polymerization of <i>N</i> -vinylcarbazole: Investigation of reaction mechanisms and properties of the isotactic polymer <u>Hironobu Watanabe</u> ,Ryo Yamanaka,Arihiro Kanazawa,Satoshi Okumoto,Shinichi Sakurai,Sadahito Aoshima
12:45	1D13	Living cationic polymerization using diphenyliodonium salts as Organic Lewis acid catalysts <u>Rui Haraguchi</u> ,Tuyoshi Nishikawa,Arihiro Kanazawa,Sadahito Aoshima
13:00	1D14	Block Sequence-Controlled Copolymers via Living Cationic Polymerization: Controlled Propagation under Iterative Monomer Feed Sho Yoshida, Takaya Terashima, Makoto Ouchi
13:15	1D15	Ring-opening polymerization of cyclic esters catalyzed by aromatic carboxylate salts <u>Kaoru Takojima</u> ,Tatsuya Saito,Takuya Isono,Takuya Yamamoto,Kenji Tajima,Toshifumi Satoh
13:30	1D16	Concurrent Cationic Vinyl-Addition, Ring-Opening, and Carbonyl-Addition Terpolymerization toward ABC-type Alternating Sequence Control <u>Maki Mimura</u> , Arihiro Kanazawa, Sadahito Aoshima
	T	. Yamamoto, presiding
13:45	1D17	Ring-Opening Cationic Copolymerization of Dioxolanones with Oxiranes and Terpolymerization with Vinyl Ethers Kano Hyoi, Arihiro Kanazawa, Sadahito Aoshima
14:00	1D18	Synthesis of Unnatural Oligo(amino saccharide)s via Cationic Ring-Opening Polymerization of Oxazoline-Based Sugar Monomers <u>Yuta Koda</u> ,Takaya Terashima,Makoto Ouchi
14:15	1D19	Concurrent cationic vinyl-addition and coordination ring-opening copolymerization of vinyl ethers and cyclic esters: Design of graft copolymers with various structures Motoki Higuchi, Arihiro Kanazawa, Sadahito Aoshima
14:30	1D20	Controlled Cationic Copolymerization of Vinyl Monomers and Cyclic Acetals via Concurrent Vinyl-Addition and Ring-Opening Mechanisms: The Effects of the Structures of Cyclic Acetals on the Polymerization Behavior Kazuya Maruyama, Arihiro Kanazawa, Sadahito Aoshima
14:45	1D21	Anionic polymerization of 2-alkyl and 3-alkylbenzofulvenes Tatsuhiro Matsubara,Yuki Kosaka,Satoshi Uchida, <u>Raita Goseki</u> ,Takashi Ishizone
	Y	. Kohsaka, presiding
15:00	1D22	Anionic polymerization of <i>N</i> -methacryloyl-7-azabicyclo[2.2.1]heptane <u>Yuki Nemoto</u> ,Raita Goseki,Takashi Ishizone
15:15	1D23	Photoinitiated anionic polymerization using a photobase generator of tertiary amines <u>Yasuhiro Nakamoto</u> ,Kento Oomura,Nobuaki Koike,Masahiro Furutani,Koji Arimitsu
15:30	1D24	Anionic polymerization of p-divinylbenzene derivatives possessing β-alkyl groups Yota Nakagawa, <u>Raita Goseki</u> ,Satoshi Uchida,Takashi Ishizone
15:45	1D25	Anionic polymerization of <i>o</i> -halostyrenes and <i>m</i> -halostyrenes <u>Asahi Kondo</u> ,Taro Koizumi,Raita Goseki,Takashi Ishizone
16:00	1D26	Anionic polymerization of <i>N</i> -(4-vinylphenyl)-2-adamantylideneamine <u>Takamasa Iso</u> ,Satoshi Uchida,Raita Goseki,Takashi Ishizone

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

K. Matsumoto, presiding 9:30 2D03 Synthesis of diblock copolymer based on radical transfer reaction Yusuke Kaneko, Yui Hamuro, Reiko Saito 9:45 2D04 Template photo-initiated RAFT polymerization of multi-vinyl monomer without radical initiator for ladder-like polymer Yui Hamuro, Reiko Saito 10:00 2D05 Thermal curing reaction of poly(&epsilon-caprolactam) and epoxy resins Yuki Watanabe, Hiroto Kudoh Synthesis of monodisperse polymer microspheres having benzyl bromides by 10:15 2D06 precipitation polymerization using a styrene dimer with silyloxy group and transformation reaction Takuya Sugimoto, Md. Wali Ullah, Naoki Haraguchi 10:30 2D07 Synthesis of ionically poly(phenylacetylene)-supported chiral imidazolidinone salts and their application to polymeric chiral organocatalyst Minoru Oi, Naoki Haraguchi, Shinichi Itsuno H. Kudo, presiding 10:45 2D08 Functional polymeric microsphere that selectively adsorb halogen compounds Yuichiro Nishizawa, Takuma Kureha, Daisuke Suzuki 11:00 2D09 Effect of the Presence of Hydrogel microspheres on the Belousov-Zhabotinsky Reaction Keito Ishikawa, Kouhei Inui, Takumi Watanabe, Shusuke Matsui, Daisuke Suzuki Diamine-crosslinking of poly(gamma-glutamic acid) modified with 5-11:15 2D10 Membered-cyclic-dithiocarbonate and its application to functional adhesives Yusuke Saitsu, Yumi Oishi, Kozo Matsumoto, Takeshi Endo Glycidyl triazolyl polymer: Facile synthesis of polyethylene glycol with 11:30 2D11 functionalized side chains Taichi Ikeda S. Kanaoka, presiding Controlled synthesis of ladder polymer in coordination nanospaces toward 12:30 2D12 functional carbon materials Takashi Kitao, Ryoto Hongu, Susumu Kitagawa, Takashi Uemura Freezing-Induced Mechanoluminescence and Dynamic Behaviors of Hybrid 12:45 2D13 Cross-Linked Polymers Having Static and Dynamic Cross-Linking Points Sota Kato, Daisuke Aoki, Hideyuki Otsuka The Study on Temperature Dependency of Photodegradation Mechanisms for 13:00 2D14 Urethane Clear Paintings and Change of Physical Properties Takato Ishida, Ryoma Kitagaki Development of Reactive Cross-linked Polymers Possessing Photoregulatable 13:15 2D15 Thermal Degradability and Reshapability Jumpei Kida, Daisuke Aoki, Hideyuki Otsuka T. Uemura, presiding 13:30 2D16 Control of Higher Order Structures of Platinum-containing Conjugated Polymers by Ligand Exchange Reaction Takahiro Ishida, Yu Miyagi, Natsuhiro Sano, Fumio Sanda Chemical Recycling of Styrene Dimer or Styrene Trimer-Based Copolymers by 13:45 2D17

Pyrolysis:Two-Cycle Chemical Recycling of Polystyrene

Ryoma Ikeda, Michio Urushisaki, Toshikazu Sakaguchi, Tamotsu Hashimoto

14:00	2D18	Chemical Modification of Epoxy Resins Based on Phenylboronic Acid / Diethanolamine Reactivity <u>Yumiko Ito</u> ,Jumpei Kida,Daisuke Aoki,Hideyuki Otsuka
14:15	2D19	Synthesis and properties of thermostable mechanochromic polymers having a thermostable mechanophore <u>Hio Sakai</u> ,Tosikazu Sumi,Raita Goseki,Daisuke Aoki,Hideyuki Otsuka
		T. Sakaguchi, presiding
14:30	2D20	Synthesis and Mechanoresponsive Properties of Mechanochromic Dendrimers Containing Diarylbibenzofuranone Moieties at the Core <u>Takuma Watabe</u> ,Kuniaki Ishizuki,Daisuke Aoki,Hideyuki Otsuka
14:45	2D21	Macrocyclic Pt-complex-catalyzed hydrosilylation reaction of polydiphenylacetylenes <u>Kazuki Higuchi</u> ,Koji Yamamoto,Hiromitsu Sogawa,Toshikazu Takata
15:00	2D22	Catalyst-free Modification and Cross-linking of Polysiloxane Using Kinetically Stabilized Nitrile N-Oxides <u>Toyokazu Tsutsuba</u> ,Toshikazu Takata
		T. Terashima, presiding
15:15	2D23	Multi-color Mechanochromic Polymer-inorganic Composite Based on Two Mechanophores <u>Takahiro Kosuge, Maxwell J. Robb, Abigail J. Halmes, Vivian M. Lau, Daisuke Aoki, Jeffrey S. Moore, Hideyuki Otsuka</u>
15:30	2D24	Photoinduced Conversion of Functional Groups on Poly(ether ether ketone) (1) <u>Kazuhiko Ishihara,</u> Kyoko Fukazawa,Sheng-Han Chen
15:45	2D25	Photoinduced Conversion of Functional Groups on Poly(ether ether ketone)(II) <u>Kyoko Fukazawa</u> ,Sheng-Han CHEN,Kazuhiko Ishihara
16:00	2D26	A rational entry to cyclic polymers via selective cyclization based on dynamic covalent bond chemistry <u>Daisuke Aoki</u> , Hideyuki Otsuka
16:15	2D27	Design and Construction of Novel Amphiphilic Gels with Thermoresponsive Crosslinked Domain Structure <u>Miki Morimura</u> , Hironobu Kitanaka, Shohei Ida, Shokyoku Kanaoka
Fri. M	ay 25	A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

T. Higashihara, presiding

9:30	3D03	Thermoresponsive Property Induced by Introducing Urethane Units to Hydrophilic Polyacrylamide Derivatives Prepared by RAFT Polymerization Yusuke Murai, Shohei Ida, Shokyoku Kanaoka
9:45	3D04	Catalyst-free cross-linking reaction of bifunctional aliphatic nitrile N-oxides <u>Tatsuhito Ikeda</u> ,Toyokazu Tsutsuba,Hiromitsu Sogawa,Toshikazu Takata
10:00	3D05	Fusion of cross-linked polymers having different structure based on thermo- responsive dynamic covalent bonds. <u>Ayuko Tsuruoka</u> ,Koki Ikyta,Akira Takahashi,Daisuke Aoki,Hideyuki Otsuka
10:15	3D06	Synthesis of Site-Selectively Functionalized Polymers and Polymer Nanoparticles via Transesterification <u>Daiki Ito</u> ,Makoto Ouchi,Takaya Terashima
	н	. Otsuka, presiding

10:30 3D07 Development of cross-linked polythiophene with oligoisobutylene side chains Satoshi Miyane, Tomoya Higashihara

10:45	3D08	Bromoallylation of polydiphenylacetylenes using macrocyclic palladium catalyst Riku Nameki,Koji Yamamoto,Hiromitsu Sogawa,Toshikazu Takata
11:00	3D09	Accelerated Degradation of Cross-Linked Polyperoxides by Thermal Latent Reductants and Their Application to Dismantlable Adhesives <u>Chisato Omori</u> , Michihiro Yuri, Eriko Sato, Takashi Nishiyama, Hideo Horibe
11:15	3D10	Preparation and Magnetically Responsive Behavior of Holmium-Bearing Polymer <u>Michinari Kohri</u> ,Kenshi Yanagimoto,Tatsuo Taniguchi,Keiki Kishikawa
11:30	3D11	Synthesis of transparent hybrid materials by the reaction of N-allylmaleimide copolymers and SH-modified silsesquioxane Akikazu Matsumoto,Ryohei Oban,Kimihiro Matsukawa
	w	. Sakai, presiding
12:30	3D12	Electrochemical Epoxidation of Natural Rubber in Water Process in the Presence of Carbon Dioxide <u>Yoshimasa Yamamoto</u> , Takaya Kudo, Seiichi Kawahara
12:45	3D13	Structural Reorganization of Polymers with α-Methyl Styrene Dimer Linkages Based on Chain Transfer Reactions <u>Nao Tsurumi</u> ,Takahiro Kosuge,Daisuke Aoki,Hideyuki Otsuka
13:00	3D14	Functionalization of polycarbonate by direct arylation <u>Tadashi Tsukamoto</u> , Toshikazu Takata
	A	. Matsumoto, presiding
13:15	3D15	Improvement of Chirality-Switchable Helical Polymer Ligand Based on Tuning of Achiral Tertiary Phosphine Pendants <u>Takaya Fujie</u> , Takeshi Yamamoto, Michinori Suginome
13:30	3D16	Helical Poly(quinoxaline-2,3-diyl)s Bearing 1,2,3-triazole Pendants: Synthesis and Use as Reusable aNHC Ligands <u>Takeshi Yamamoto</u> ,Pinglu Zhang,Michinori Suginome
13:45	3D17	Characteristic Change and Radical Formation on Degradation of Thermoplastic Polyether-Ester Elastomer <u>Wataru Sakai</u> ,Masayo Sono,Kenji Kinashi,Naoto Tsutsumi

Room E

Wed. May 23

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

Y. Nagata, presiding

10:00	1E05	Synthesis and Evaluation of o-Carborane Derivatives with Intense Solid-State Emission <u>Kyoya Uemura</u> ,Kazuo Tanaka,Yoshiki Chujo
10:15	1E06	Development of Solid-State Luminescent Materials Using <i>o</i> -Carborane <u>Keisuke Wada</u> ,Kazuo Tanaka,Yoshiki Chujo
10:30	1E07	Synthesis of Conjugated Polymers Composed of Boron Formazanate Complexes and Their Physical Properties <u>Yuki KAWANO</u> ,Kazuo TANAKA,Yoshiki CHUJO
10:45	1E08	Synthesis of chiral magnetic conjugated polymer by electrochemical polymerization in cholesteric liquid crystal

<u>Masashi Otaki</u>,Hiromasa Goto

H. Goto, presiding

		71 3
11:00	1E09	Circularly polarized selective reflection properties of thin films of polyquinoxalines forming cholesteric structure: Effect of the solvent vapors and the substituents on their side chains Yuuya Nagata, Shunsuke Ashikaga, Hiroki Kondo, Michinori Suginome
11:15	1E10	Molecular Characterization of Interaction between Stereoregular Poly(Methyl Methacrylate) interacting and Chiral Compound Masanao Sato, Eric chen, Kai-chieh Yang, Ming-chia Li, Rong-Ming Ho, Tomoyasu Hirai, Atsushi Takahara
11:30	1E11	Synthesis of Non-natural Polypeptide Bearing 2,6-Naphthylene Unit in the Main Chain and Formation of Secondary Structure Yuki Ishido,Naoya Kanbayashi,Taka-aki Okamura,Kiyotaka Onitsuka
	T	. Hirai, presiding
12:30	1E12	Synthesis and properties of diblock copolymers consisted of chiral poly(methylethyleneimine) and achiral poly(ethyleneimine) Makoto Isaki , Yuuma Umebara, Ren-hua Jin
12:45	1E13	Intramolecular cross-linking of block copolymers for downsizing microphase- separated structures <u>Satoshi Katsuhara</u> ,Kodai Watanabe,Takuya Isono,Takuya Yamamoto,Kenji Tajima,Toshifumi Satoh
13:00	1E14	Synthesis and microphase separation behavior of block copolymers consisting of poly(propylene oxide) and oligosaccharide <u>Yasuko Takagi</u> , Takuya Isono, Kenji Tajima, Redouane Borsali, Toshifumi Satoh
13:15	1E15	Synthesis and Microphase-separated Structure of Poly(styrene-block-methyl methacrylate) Bearing Oligosaccharide at Chain End Kohei Yoshida, Shunma Tanaka, Ken Miyagi, Takuya Isono, Takuya Yamamoto, Kenji Tajima, Borsali Redouane, Toshifumi Satoh
13:30	1E16	Bicontinuous Hard-Soft Nanodomain Formation via Controlled Photo-curing <u>Takeo Suga</u> ,Kaname Takata,Hiroyo Sumida,Hiroyuki Nishide
	K	. Sugiyama, presiding
13:45	1E17	Diversification of Morphology for Silicon-containing Block Copolymers by Introduction Rate of Side Chains <u>Seina Yamazaki</u> , Takehiro Seshimo, Yuta Nabae, Daisuke Kawana, Akiyoshi Yamazaki, Teruaki Hayakawa
14:00	1E18	Controling the Interfacial Region of Poly(styrene-b-2-vinylpyridine) Block Copolymers by Introducing Fluorinated Alkyl Chains <u>Yoshihiro Agata</u> ,Yuta Nabae,Teruaki Hayakawa
14:15	1E19	Fluorine-Containing Block Copolymers Synthesized via RAFT Polymerization for Self-organized Porous Membranes Sho Kurimoto, Alvin Chandra, Ryuichi Nakatani, Yuta Nabae, Teruaki Hayakawa
14:30	1E20	Synthesis of Worm-like Nano-objects via Polymerization Inducerd Self- Assembly <u>Miku Sakai</u> ,Shinji Sugihara,Satoshi Irie,Yasushi Maeda
	K	. Tanaka, presiding
14:45	1E21	An effective Intramolecular ESA-CF Polymer Cyclization by zwitterionic telechelic polystyrenes <u>Tsuneaki Konomoto</u> , Takuya Yamamoto, Yasuyuki Tezuka
15:00	1E22	A programme polymer folding by the ESA-CF protocol using periodically-positioned tetrafunctional telechelic poly(THF)s Kohei Kyoda,Ran Itsukushima,Takuya Yamamoto, <u>Yasuyuki Tezuka</u>

15:15	1E23	Construction of a K3,3 graph polymer topology by the ESA-CF process with a hexafunctional dendritic telechelic precursor Yu Yanagisawa,Toshiyuki Aoyanagi,Takuya Yamamoto, <u>Yasuyuki Tezuka</u>
15:30	1E24	Synthesis and Chromism Properties of Network Polymer by Thiol-ene Reaction using Allylated Rhodamine Derivatives as a Cross-linker Shintaro Goto , Kazuhiro Yamabuki, Kenjiro Onimura
15:45	1E25	Synthesis of Organic-inorganic Hybrid Network Polymer with Crown Ether Modified 8-Arms Silsesquioxane <u>Ginta Yamane</u> ,Kazuhiro Yamabuki,Kenjiro Onimura
	K	. Onimura, presiding
16:00	1E26	Synthesis and Evaluation of Polyurethane-Conjugated Polymer Hybrid Films Based on POSS Keigo Kato, Masayuki Gon, Kazuo Tanaka, Yoshiki Chujo
16:15	1E27	Synthesis and characterization of poly(bis(thienylene)cyclobutenedione) Takuma Sone, Tomoyuki Ohishi, Akihiro Yokoyama
16:30	1E28	Synthesis of pentaazaphenalene derivatives toward narrow HOMO-LUMO gap materials <u>Junki Ochi</u> ,Hiroyuki Watanabe,Kazuo Tanaka,Yoshiki Chujo
16:45	1E29	Synthesis and Properties of Pentaazaphenalene-Based π -Conjugated Polymer <u>Hiroyuki WATANABE</u> , Kazuo TANAKA, Yoshiki CHUJO

Thu. May 24

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

M. Gon, presiding 9:30 2E03 Synthesis of well-defined functionalized alternating copolymer via living anionic copolymerization Fan Zhang, Satoshi Uchida, Raita Goseki, Takashi Ishizone 9:45 2E04 End functionalization by anionic addition reaction of 1,1-di(2-pyridyl)ethylene Marika Suzuki, Kazuki Takahata, Raita Goseki, Takashi Ishizone 10:00 2E05 Synthesis of Chain End Sequence Controlled Polymers by Living Anionic Addition Reaction using Umpolung Strategy Kazuki Takahata, Satoshi Uchida, Raita Goseki, Takashi Ishizone 10:15 2E06 Synthesis of Novel Block Copolymer with Stereoregular Poly(methyl methacrylate) Block and Characterization of Its Physical Property Hitoshi Shimamoto, Tomoki Kato, Masanao Sato, Tomoyasu Hirai, Atsushi Takahara 10:30 2E07 Synthesis of block copolymer containing alicyclic epoxy group by living radical polymerization with iodide Sho Nishida, Reiko Saito H. GUO, presiding 10:45 2E08 Synthesis of organic semiconductor nanoparticles using amino acid-based block copolymers. Keita KATAOKA, Chen-Tsyr LO, Kazuhiro NAKABAYASHI, Hideharu MORI 11:00 Development of Highly-Efficient Emissive Polymer Films Based on Fused 2E09 Boron Ketoiminates Kazumasa Suenaga, Kyoya Uemura, Kazuo Tanaka, Yoshiki Chujo Synthesis and Characteristics of Emissive Aza-Substituted Fused-Boron 11:15 2E10 Ketoiminates

Aoi Watanabe, Kazumasa Suenega, Kazuo Tanaka, Yoshiki Chujo

11:30	2E11	Synthesis and Properties of Conjugated Polymers Containing Fused Azomethine-Boron Complexes <u>Shunsuke Ohtani</u> ,Masayuki Gon,Kazuo Tanaka,Yoshiki Chujo
		K. Albrecht, presiding
12:30	2E12	Synthesis and Evaluation of Conjugated Polymers Based on meta-Substituted Fused Azobenzene-Boron Complexes <u>Junko Wakabayashi</u> ,Masayuki Gon,Kazuo Tanaka,Yoshiki Chujo
12:45	2E13	Synthesis and Evaluation of Conjugated Polymers Containing Fused Azobenzene-Tin Complexes in the Main Chain Masayuki Gon, Kazuo Tanaka, Yoshiki Chujo
13:00	2E14	Synthesis of structure-controlled A,B-block type amphiphilic macromolecular wire and photochemical behavior <u>Haoxuan Guo</u> ,Keisuke Yoshida,Hiroyuki Aota
13:15	2E15	Structure Control of Biocompatible Micelles with Pendant Siloxane Shohei Kozuka, Keita Kuroda, Kazuhiko Ishihara, Shin-ichi Yusa
		S. Uchida, presiding
13:30	2E16	Heat-induced networking of mixed solution consisting of diblock copolymer micelles with a crystalline core and ABA triblock copolymer Kaishi Yamaguchi,Shokyoku Kanaoka,Satoshi Tanimoto
13:45	2E17	Nanostructure Materials Based on Amphiphilic Random Copolymers: Side-Chain Crystallinity for Precision Self-Assembly and Micro-Phase Separation <u>Takaya Terashima</u> , Goki Hattori
14:00	2E18	Synthesis and Self-Assembly of Amphiphilic Polyacrylamides with Branching Side Chains <u>Yoshihiko Kimura</u> ,Makoto Ouchi,Takaya Terashima
14:15	2E19	Self-Sorting of Amphiphilic Random Copolymers in Water: From Discrete Nano Compartmentalization to Macroscopic Recognition of Hydrogels <u>Takaya Terashima</u> ,Shota Imai
		S. Sugihara, presiding
14:30	2E20	Synthesis of Vinyl Ether Copolymers with Pendant Imidazolium Ionic Liquids and Their UCST-type Phase Separation Behavior and Thermosensitive Physical
		Gelation in Water <u>Daichi Yokota,</u> Arihiro Kanazawa,Sadahito Aoshima
14:45	2E21	
14:45 15:00	2E21 2E22	<u>Daichi Yokota</u> , Arihiro Kanazawa, Sadahito Aoshima Synthesis of Poly(Vinyl Ether)s by Living Cationic Polymerization and Formation of Nano-Dispersed Pigment Particles
		Daichi Yokota, Arihiro Kanazawa, Sadahito Aoshima Synthesis of Poly(Vinyl Ether)s by Living Cationic Polymerization and Formation of Nano-Dispersed Pigment Particles <u>Hiroshi Oda</u> , Arihiro Kanazawa, Sadahito Aoshima Color-change of N-substituted maleimide copolymers depending on polarity of vinyl monomer based on acid-base switching
15:00	2E22	Daichi Yokota, Arihiro Kanazawa, Sadahito Aoshima Synthesis of Poly(Vinyl Ether)s by Living Cationic Polymerization and Formation of Nano-Dispersed Pigment Particles Hiroshi Oda, Arihiro Kanazawa, Sadahito Aoshima Color-change of N-substituted maleimide copolymers depending on polarity of vinyl monomer based on acid-base switching Yoshiaki Yoshida, Takeshi Endo Control of the threading ratio of cyclic molecules in polyrotaxane consisting of poly(ethylene glycol) and α-cyclodextrins. Yuichiro Kobayashi, Yukie Nakamitsu, Yoshinori Takashima, Hiroyasu
15:00	2E22	Daichi Yokota, Arihiro Kanazawa, Sadahito Aoshima Synthesis of Poly(Vinyl Ether)s by Living Cationic Polymerization and Formation of Nano-Dispersed Pigment Particles Hiroshi Oda, Arihiro Kanazawa, Sadahito Aoshima Color-change of N-substituted maleimide copolymers depending on polarity of vinyl monomer based on acid-base switching Yoshiaki Yoshida, Takeshi Endo Control of the threading ratio of cyclic molecules in polyrotaxane consisting of poly(ethylene glycol) and α-cyclodextrins. Yuichiro Kobayashi, Yukie Nakamitsu, Yoshinori Takashima, Hiroyasu Yamaguchi, Akira Harada
15:00 15:15	2E22 2E23	Daichi Yokota, Arihiro Kanazawa, Sadahito Aoshima Synthesis of Poly(Vinyl Ether)s by Living Cationic Polymerization and Formation of Nano-Dispersed Pigment Particles Hiroshi Oda, Arihiro Kanazawa, Sadahito Aoshima Color-change of N-substituted maleimide copolymers depending on polarity of vinyl monomer based on acid-base switching Yoshiaki Yoshida, Takeshi Endo Control of the threading ratio of cyclic molecules in polyrotaxane consisting of poly(ethylene glycol) and α-cyclodextrins. Yuichiro Kobayashi, Yukie Nakamitsu, Yoshinori Takashima, Hiroyasu Yamaguchi, Akira Harada Y. Takashima, presiding Synthesis and property of cyclic block copolymer synthesized with pseudo[2]rotaxane dimer

macromole	ecuar [ˈ	2]rotax	ane		
Hiromitsu	Sogaw	a,Miya	Hiroi.	Toshikazu	Takata

16:15 2E27 Helicity control of polyacetylene using dynamic mechanical chirality Kazuko Nakazono, Masahiro Konakazawa, Toshikazu Takata

Fri. May 25

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

	N	. Haraguchi, presiding
9:30	3E03	Click Living Polymerization of Azide-Alkyne AB Type Monomers <u>Takuya NAKAMURA</u> , Mineto UCHIYAMA, Kotaro SATOH, Masami KAMIGAITO
9:45	3E04	Synthesis of Reactive Moiety-Containing Poly(L-lysine) in the Side Chain by Polycondensation of Activated Urethane Derivative of L-Lysine Bearing NNa-, NNe-Phenoxycarbonyl Moiety Shuhei Yamada, Ayaka Takashima, Huseyin Akbulut, Takeshi Endo
10:00	3E05	Synthesis of Polymers having Zwitterion Structure Obtained by the Reaction of the Cyclic Amidine Derivatives and Isothiocyanate in Side Chains <u>Akira Yamauchi</u> , Takeshi Endo
10:15	3E06	Synthesis of poly(urea-urethane) and poly(urea-ester) copolymer using amino acid Saori Nagai,Shuhei Yamada,Takeshi Endo
	т	. Shiono, presiding
10:30	3E07ILY	Palladium-Catalyzed Direct Arylation Polymerization: A Simple and Easy Synthetic Method of π-Conjugated Polymers <u>Masayuki Wakioka</u>
11:00	3E09	Suzuki-Miyaura catalyst-transfer condensation polymerization with a variety of bulky phosphine-ligated Pd catalysts <u>Tatsuya UCHIDA</u> , Yoshihiro OHTA, Tsutomu YOKOZAWA
11:15	3E10	Asymmetric Polymerization to Synthesize Optically Active Polymer Bearing Planar Phthalimide Backbone <u>Marina Saegusa</u> ,Naoya Kanbayashi,Yuki Ishido,Taka-aki Okamura,Kiyotaka Onitsuka
11:30	3E11	Novel Cyclopolymerization Based on Intramolecular Alternative Insertion of Isocyanide and Allene into Palladium-Carbon Bond <u>Naoya Kanbayashi</u> ,Jun Ikegami,Yuki Kataoka,Yoshio Matsukiyo,Taka-aki Okamura,Kiyotaka Onitsuka
	Н	. Nagae, presiding
12:30	3E12	Synthesis of Water-Soluble Poly(biphenylylacetylene) Derivatives and Their Helicity Control Ryoma Ishidate,Chiaki Yokota,Katsuhiro Maeda,Eiji Yashima
12:45	3E13	Synthesis of Conjugated Polymers Consisting of <i>N</i> -Substituted 2,3-Dithienylmaleimide and Fluorene Derivatives by Direct Arylation Reaction Ryoya Fujiwara, Kazuhiro Yamabuki, Kenjiro Onimura
13:00	3E14	Synthesis of poly(1,5-triazole)s from aliphatic diazides and aliphatic dialkynes using Ru catalysts Masaru Yoneyama,Takeshi Yamanobe, <u>Ayami Miyata</u>
	M	I. Wakioka, presiding
13:15	3E15	Reversible star polymer assembly of boronic acid end-functionalized polyolefins <u>Ryo Tanaka</u> , Naoki Tonoko, Yuushou Nakayama, Takeshi Shiono

13:30	3E16	Heterogeneity of silica-supported MMAO cocatalyst on copolymerization of norbornene/1-octene <u>Hirotaka Nagai</u> ,Ryo Tanaka,Yuushou Nakayama,Takeshi Shiono
13:45	3E17	Ring-opening polymerization of propylene oxide catalyzed by iminophosphazenium aluminate complex Shogo Hosomi ,Ryo Tanaka,Yuushou Nakayama,Takeshi Shiono,Yoshiaki Inoue,Toshihide Yamamoto,Katsuaki Mori
14:00	3E18	Telomerization on Alternating Copolymerization of Cyclohexene Oxide with Carbon Dioxide Catalyzed by Macrocycle LnZn3 Cluster Complexes Shin-nosuke Akutagawa,Ryota Aoki,Haruki Nagae,Thomas P. Spaniol,Hayato Tsurugi,Jun Okuda,Kazushi Mashima

Room F

Wed. May 23

A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

R. Saito, presiding 10:00 1F05ILY Polymerization of α-functionalized acrylate designed for functional group synergy Yasuhiro Kohsaka Reexamination of Reactivity of N-Carboxy Amino Acid Anhydrides 85. The true 10:30 1F07 reactivity of N-Carboxy Amino Acid Anhydrides. Hitoshi Kanazawa, Aya Inada Aminophenolic Resin Obtained in the Chiral Silica Matrix 10:45 1F08 Takumi ITO, Seiji TSUNEGA, Ren-hua JIN K. Miyatake, presiding 11:00 1F09 Synthesis and properties of poly(silarylenesiloxane) derivatives with multiple thiophene moieties. Ibuki Nishizawa, Hiroki Ajito, Ryouto Mishima, Shingo Morihira, Nobukatsu Nemoto 11:15 1F10 Reaction mechanism of amine compound on thiol-epoxy reaction of alicyclic epoxy monomer Tetsuo Sakaguchi, Akio Takasugi, Susumu Kawauchi, Reiko Saito 11:30 1F11 Kinetic analysis of ring-opening reaction of asymmetric epoxy monomer by thiol and amine Akio Takasugi, Tetsuo Sakaguchi, Reiko Saito N. Nemoto, presiding 12:30 1F12 Synthesis and formation mechanism of polyhydroxyurethane-silica nanocomposites JooYeon Lee, Reiko Saito 12:45 1F13 Polycondensation of α-bromo-α-(bromomethyl)acrylate utilizing sequential conjugate substitution induced by monomer-skeleton reformation Keito Hagiwara, Yasuhiro Kohsaka 13:00 1F14 Synthesis of Sulfonated Polyphenylenes Keisuke Shiino, Miyake Junpei, Miyatake Kenji Synthesis and Properties of Partially Fluorinated Anion Conductive 13:15 1F15 Copolymers Containing Fluorenyl Groups Mizuki Ozawa, Junpei Miyake, Kenji Miyatake

M. Yoneyama, presiding

		,
13:30	1F16	Synthesis of Regioregular P3HTs having Asymmetric Thienoisoindigo via Direct Arylation Polycondensation and Their Optoelectronic Properties Kaoru Uegaki, Shin-ichi Yamamoto, Toshio Koizumi, Shotaro Hayashi
13:45	1F17	Synthesis of fluorine-containing aromatic polybenzimidazoles using triazine-
		based active diesters
		<u>Mayu Hanada,</u> Yuji Shibasaki,Yoshiyuki Oishi,Tadashi Kanbara,Tsuyoshi Noguchi
14:00	1F18	Unstoichiometric Suzuki-Miyaura cyclic polycondensation of accepter aromatic
		monomers <u>Hajime SUGITA</u> ,Takeru KAMIGAWARA,Yoshihiro OHTA,Tsutomu YOKOZAWA
14:15	1F19	Suppression of self-condensation of amino acid monomers, immobilized on polynorbornene, by using solid base in chain-growth condensation polymerization
		Takeru KAMEYAMA, Ami MORIMITSU, Yoshihiro OHTA, Tsutomu YOKOZAWA
		T. Yokozawa, presiding
14:30	1F20	Synthesis of triazine oligomer by cyclotrimerization of nitrile derivatives and Application of hybridization with PBI to electrolyte membrane of fuel cell Masahiro Komeda, Tatsuya Yuki, Naoto Aoyagi, Atsunori Matsuda, Takeshi Endo
14:45	1F21	Synthesis of polyureas from diamines and CO_2 using cesium salt catalysts and their properties Yuto Nishida, Masaru Yoneyama
15:00	1F22	Synthesis of polyimines from xylylendiamine using ionic liquid and oxygen Masaru Yoneyama, Takeshi Yamanobe, <u>Arai Yasuhiro</u>
15:15	1F23	Synthesis of polyfluorene via catalyst-transfer polycondensation of triolborate salt monomer <u>Saburou Kobayashi</u> , Takuya Isono, Takuya Yamamoto, Kenji Tajima, Toshifumi
		Satoh
		T. Satoh, presiding
15:30	1F24	Polyester synthesis under halogen- and metal-free conditions by using acyl
		triazoles
		<u>Kazumasa Homma</u> ,Ichiro Mori,Yasuhiro Kohsaka,Susumu Sugiyama,Daisuke Matsuura,Yoshikazu Kimura
15:45	1F25	Controlling over oxidative coupling polymerization of 3-hexylthiophene using
		polymethyl methacrylate as a template
		<u>Tomoyasu Hirai,</u> Tomoki Kato,Masaru Mukai,Kazutaka Kamitani,Maiko Nishibori,Atsushi Takahara
16:00	1F26	Nonstoichiometric Friedel-Crafts Polycondensation Based on Reactivity
		Change by Protonation-Deprotonation
161-	1505	Kazuya Matsumoto, Takayuki Ogawa, Mitsutoshi Jikei
16:15	1F27	Nonstoichiometric polycondensation by Friedel-Crafts acylation reaction with AlCl ₃
		<u>Chisa Fukui,</u> Kazuya Matsumoto,Mitsutoshi Jikei

Thu. May 24

AWARD LECTURES

K. Tanaka, presiding

9:30 2F03AL End-Crosslinking of Controlled Telechelic Poly(*N*-isopropylacrylamide) toward a Homogeneous Gel Network with Photo-Induced Self-Healing Shohei Ida

T. Yasuda, presiding

10:00 2F05AL Direct Arylation Polycondensation for Synthesis of Bithiazole-based Conjugated Polymers and Their Physical Properties <u>Junpei Kuwabara</u>

T. Serizawa, presiding

10:30 2F07AL Analysis of the sol-to-gel transition behavior of temperature-responsive injectable polymer systems by fluorescence resonance energy transfer Kazuyuki Takata, Keisuke Kawahara, Yasuyuki Yoshida, Akinori Kuzuya, Yuichi Ohya

E. POLYMERS AND ENVIRONMENT

K. Aoi, presiding

		, 1101, P100141119
11:00	2F09	Synthesis of polypeptides containing aromatic rings in main chain by chemoenzymatic polymerization <u>Kousuke Tsuchiya</u> ,Naruki Kurokawa,Keiji Numata
11:15	2F10	Synthesis of biopolyester using inedible compounds and its thermal-induced crosslinking <u>Masuhiro Okada</u> , Katsunori Suzuki, Yasuteru Mawatari, Masayoshi Tabata
11:30	2F11	Development of green natural lacquer "Urushi" derived from cashew nut shells <u>Shinji Kanehashi</u> ,Yuta Harada,Kenji Ogino,Tetsuo Miyakoshi
	H	. Uyama, presiding
12:30	2F12	Chemical modification of plant oil based polyolefin and application for functional material <u>Kazuhisa Ohtake</u> ,Yusuke Onose,Junpei Kuwabara,Takaki Kanbara
12:45	2F13	Biodegradation of polyamide 4 in seawater <u>Atsuyoshi Nakayama</u> ,Norioki Kawasaki,Naoko Yamano
13:00	2F14	Preparation of polymer membranes containing surface-modified pearl-necklace shaped nanoparticles to achieve high CO2 permeability. <u>Takuya Muramoto</u> ,Manabu Tanaka,Masafumi Yamato,Hiroyoshi Kawakami
13:15	2F15	Metal adsorption of porous chitosan nanofiber hydrogel <u>Sachiko Nitta, Miki Akagi, Hiroyuki Iwamoto</u>
	A	. Nakayama, presiding
13:30	2F16	Fabrication of composite hydrogels by nanoparticle formation inside matrix <u>Tatsuya Yamamoto</u> , Taka-Aki Asoh, Hiroshi Uyama
13:45	2F17	Fabrication of hydrogel electrodes with high mechanical strength consisting of conductive polymer coated bacterial cellulose nanofibers <u>Tatsuya Higashigaki</u> , Taka-Aki Asoh, Hiroshi Uyama
14:00	2F18	Fabrication of Conducting Nanofibers utilizing Cellulose Polymer Electrolytes <u>Eiichi Shoji</u> , Yoshiki Ohno, Takumi Ikeuchi, Masanori Hatashita
	T	. Iwata, presiding
14:15	2F19ILY	Birefringence control of bio-based plastics utilizing orientation correlation and porous structure Shogo Nobukawa
14:45	2F21	Crystal Structure Analysis of Poly(L-2-hydroxy-3-methylbutanoic acid) β-form <u>Hironori MARUBAYASHI</u> ,Ryo MIZUKAMI,Yuji HAMADA,Shuichi NOJIMA
15:00	2F22	Ternary- and hetero-stereocomplex crystallization of unsubstituted and substituted poly(lactic acid)s <u>Hideto Tsuji</u> ,Soma Noda,Noriaki Masaki,Takayuki Kimura,Yuki

		Australia Walashi Oshara Wasanina a Larahi
		Arakawa,Tadashi Sobue,Kazumasa Iguchi
15:15	2F23	Spinning of predominantly amorphous silk fibroin solution aimed at toughness enhancement Kenjiro Yazawa, Keiji Numata
	Y.	. Nakayama, presiding
15:30	2F24	Mutual Separation Behavior of Platinum Groups utilizing Sulfur-Containing PVA Derivatives <u>Yui Nonaka</u> , Takumi Akiyama, Rina Takahashi, Daisuke Nagai, Takeshi
		Yamanobe
15:45	2F25	Recycling of polyurethane with a novel photo and thermal catalyst system <u>Hisayuki Nakatani</u> ,Tomohiro Nakamura,Suguru Motokucho
16:00	2F26	Development of high performance nanofiltration membrane <u>Masakazu Koiwa,</u> Hiroki Minehara,Takafumi Ogawa,Masahiro Kimura
16:15	2F27	Hydrolysis of polyurethane and polymer glycol under high pressure carbon dioxide
		Suguru Motokucho, Kouki Hashimoto, Hisayuki Nakatani
		
Fri. Ma	•	
	A	. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS
	ĸ	. Sada, presiding
0.00		
9:30	3F03ILY	Controlled supramolecular polymerization <u>Kazunori Sugiyasu</u>
10:00	3F05	Synthesis and structure control of platinum-conjugated polymers bearing bipyridine ligands <u>Taichi Sotani</u> , Yui Nishikawa, Tatsuya Ogawa, Yu Miyagi, Fumio Sanda
10:15	3F06	Synthesis of a Double-Stranded Titanium Helicate Composed of Oligophenol Units and Its Dynamic Structural Conversion <u>Manabu ITAKURA</u> ,Akira NAGASAKA,Daisuke TAURA,Naoki OUSAKA,Eiji YASHIMA
	N.	. Ousaka, presiding
10:30	3F07	Enhancement of Photocatalytic Activity of Re(I) Complexes by Encapsulation in Light-Harvesting Soft Nanotubes Naohiro Kameta,Masaru Aoyagi,Masumi Asakawa
10:45	3F08	Helical organization of supramolecular porphyrin polymers induced by coordination of chiral bispyridine Kei Maruyama,Kouhei Nadamoto,Toshiaki Ikeda, <u>Takeharu Haino</u>
	Т.	. Haino, presiding
11:00	3F09	Elastic π-Conjugated Molecular Crystal: Narrow Band-gap Densely Packed Assembles based on Cyano-substituted Oligo(phenylene-vinylene) <u>Shotaro Hayashi</u> ,Ryosuke Hirai,Toshio Koizumi
11:15	3F10	Synthesis of Helical Foldamers Possessing a Metal Binding Ability and Their Self-assembly Behavior <u>Satoshi KAWABATA</u> ,Shogo OKUDA,Naoki OUSAKA,Eiji YASHIMA
11:30	3F11	Development of Solid-State Molecular-based Materials Showing Photon Upconversion <u>Nobuhiro Yanai</u> ,Taku Ogawa,Nobuo Kimizuka
	F.	Sanda, presiding

Design of temperature responsive copolymers using hydrogen bonding and

12:30 3F12

		charge transfer interaction <u>Naoki Fukaya,</u> Yoshiki kuroshima,Kenta Kokado,Kazuki Sada
12:45	3F13	Synthesis and self-assembled structure of polyrotaxanes having ligand end groups <u>Riki Masuda</u> ,Shuntaro Uenuma,Rina Maeda,Koichi Mayumi,Hideaki Yokoyama,Kohzo Ito
13:00	3F14	Self-assembling structure and mechanical property of polyrotaxan Layer-by- Layer film <u>Rina Maeda</u> ,Yuta Ikeda,Koichi Mayumi,Hideaki Yokoyama,Kohzo Ito
13:15	3F15	Creation of microsheet structures through controlling polymer interactions in microflow Munenori Numata, <u>Akira Kaneyoshi</u> , Yoshihiro Kikkawa

Room G

Wed. May 23

D. BIOPOLYMERS AND BIORELATED POLYMERS

T. Mori, presiding 10:15 1G06 Development of novel PG-surfactants having antibacterial activity and discussion on the working mechanism. Ryosuke Kimura, Atsushi Miyagawa, Hatsuo Yamamura, Toshihisa Mizuno 10:30 1G07 Ring-opening polymerization of loop-PEGylated hemoglobin Takashi Matsuhira, Keizo Yamamoto, Hiromi Sakai 10:45 1G08 Synthesis of Cell Penetrating Peptide containing a-aminoisobutylicacid using chemoenzaimatic polymerization Yu MIYAGI, Kousuke TSUCHIYA, Keiji NUMATA K. Numata, presiding 11:00 1G09 Development of hemagglutinin accumulated hybrid nanoparticles by cell-free membrane protein expression system Yuki Ujihira, Mitsuru Ando, Yoshihiro Sasaki, Kazunai Akiyoshi 11:15 1G10 Analyses of mechanism to the decomposition of lipid bilayers by lipid membrane degrading enzymes using HS-AFM Keisuke Kurihara, Rina Tanaka, Toshiaki Mori 11:30 1G11 Observation of glycosylation to glycolipids by the glycosyltransferase with AFM Force Mapping Toshiaki Mori, Shuhei Teguri, Shin-ya Kobayashi N. Ousaka, presiding 1G12 Design of multi-functional peptides for selective collection of leukemia cells 12:30 Akifumi Yoshihara, Yamasaki Yuichi, Yoshiyuki Yamada, Madoka Takai 12:45 1G13 Synthesis and Properties of Protein Cage Fused with Amyloid β Shiori Kameyama, Basudev Maity, Satoshi Abe, Takafumi Ueno 13:00 1G14 Encapsulation of exogenous proteins into in vivo protein crystals Satoshi Abe, Makoto Kasamatsu, Takafumi Ueno 13:15 1G15 Design of amphiphilic polymer with oligoaspartic acids and evaluation of their self-assembled structure and pH responsive behavior Shin Hirose, Tomoki Nishimura, Shinichi Sawada, Yoshihiro Sasaki, Kazunari Akiyoshi

S.	Abe,	presiding
----	------	-----------

		o. noc, presiding
13:30	1G16	Remote Control of Axial Chirality of a 2,2'-Bipyridine Derivative Bearing a Dynamic Helical Peptide and Its Solvent-Induced Helix Inversion Akio Urushima, Naoki Ousaka, Eiji Yashima
13:45	1G17	Construction and evaluation of the gel fibers encapsulating membrane protein at the inside, by using the reactive solubilization surfactants and the later gelation <u>Taro Shimamoto</u> , Aki Taniguchi, Tomoyasu Noji, Keisuke Kawakami, Takehisa Dewa, Nobuo Kamiya, Shigeru Ito, Toshihisa Mizuno
14:00	1G18	Determination of atomic-level structure of the silk fibroin from a wild silkworm, Samia cynthia ricini using 13C solid-state NMR Tetsuo Asakura, <u>Shunsuke Kametani</u> , Akio Nishimura, Akira Naito
14:15	1G19	Dynamics of Alanine Residues in Polyalanine Regions in Samia Cynthia Ricini Silk Fiber as Revealed by Relaxation Measurements Obtained from 13C Solid- State NMR <u>Akira Naito</u> ,Yugo Tasei,Akio Nishimura,Tetsuo Asakura
		H. Yoshimizu, presiding
14:30	1G20	Determination of Packing Structure of Polyalanine Region in Spider Dragline Silk Using 13C solid-state NMR and 13C labeling of Spider Silk <u>Tetsuo Asakura</u> , Yugo Tasei, Akio Nishimura
14:45	1G21	Determination of Heterogeneous Structure of Glycine-rich Region in Spider Dragline Silk Using 13C labeled Sequential Model Peptides (47mer), 13C solid-state NMR and Molecular Dynamics Calculation <u>Tetsuo Asakura</u> , Erika Yamaguchi, Akio Nishimura, Yugo Tasei
15:00	1G22	The collaboration of MD simulations and solid-state NMR experiments for elucidation of the correlation between the structure and mechanical properties of silks Akio Nishimura, Tetsuo Asakura
		K. Yasuhara, presiding
15:15	1G23	Preparation and dielectric properties of peptide nanotubes composed of cyclic tri-β-peptides having aromatic groups <u>Yusuke Kamano</u> , Hirotaka Uji, Shunsaku Kimura
15:30	1G24	Fabrication and electronic properties of peptide nanotubes consisting of cyclic tri-β-peptides having chloranil groups <u>Hiroshi Omura</u> ,Hirotaka Uji,Shunsaku Kimura
15:45	1G25	Evaluation of charge separation using biohybrid antenna complexes driven by ultrafast energy transfer <u>Akari Goto</u> ,Yusuke Yoneda,Masaharu Kondo,Hiroshi Miyasaka,Yutaka Nagasawa,Takehisa Dewa
16:00	1G26	Functionalization onto Lipid Membranes with Amphiphilic Block Copolymers: Controlled Membrane Affinity by Precision Designing Artificial Membrane Proteins <u>Yuta Koda</u> ,Daiki Takahashi,Yoshihiro Sasaki,Kazunari Akiyoshi
		Y. Sasaki, presiding
16:15	1G27	Fission of dumbbell-shaped vesicle from amphiphilic polypeptide Kon Son <u>,Motoki Ueda</u> ,Shinji Takeoka,Yoshihiro Ito
16:30	1G28	Autonomous control of lipid bilayer morphological change by cationic combtype copolymer/peptide complex <u>Takuro Ochiai</u> ,Naohiko Shimada,Atsushi Maruyama
16:45	1G29	Design of thermo-responsive cationic comb-type copolymer that enhances membrane permeabilizing activity of an amphiphilic peptide <u>Tsukuru Masuda</u> ,Naohiko Shimada,Atsushi Maruyama

D. BIOPOLYMERS AND BIORELATED POLYMERS

		T. Dewa, presiding
9:30	2G03	Spontaneous formation of lipid nanodisc by amphiphilic polymethacrylate copolymers
		<u>Kazuma Yasuhara</u> ,Jin Arakida,Masaya Inoue,Ramamoorthy Ayyalusamy,Junichi Kikuchi
9:45	2G04	Fabrication of self-degradable capsule wall over the surface of liposomes by the layer-by-layer deposition of polypeptides and enzymes Yuuka Fukui, Hikari Otsuka, Keiji Fujimoto
10:00	2G05	Potentiation of immunity-inducing function of pH-sensitive polysaccharide-modified liposomes by cationic lipid-inclusion <u>Eiji Yuba</u> ,Yuna Kado,Naoki Sakaguchi,Atsushi Harada,Kenji Kono
10:15	2G06	Inclusion of water-soluble polymer by nanofiber consisting of Cyclic Peptide Amphiphile <u>Kosuke Morimoto</u> ,Satoshi Kanazawa,Isamu Akiba
		A. Maruyama, presiding
10:30	2G07	Self-organization and Polymersome of comb-like polymers possessing amphiphilic diblock polymeric side chain <u>Wenli Wang</u> ,Ren-Hua Jin
10:45	2G08	Temperature responsive nanoparticles transformed from micelles self- organized from hydrophilic tooth-brush like block copolymers possessing PNIPAM
11.00	2000	Haruka Takebuchi, Wenli Wang, Katsuya Kaikake, Ren-Hua Jin
11:00	2G09	Aggregation behavior of thermoresponsive polymeric micelles having charged polymer into outer shell segment Jun Akimoto , Hsiu-Pen Lin, Yaw-Kuen Li, Yoshihiro Ito
11:15	2G10	Design of new biocompatible micelles using hydrosilylation reaction <u>Jun Matsuno</u> ,Shota Fujii,Rintaro Takahashi,Kazuo Sakurai
11:30	2G11	Stabilization of the micelle structure by cross-link introduction between hydrophobic chains and application to DDS <u>Rena Tanaka</u> ,Shota Fujii,Rintaro Takahashi,kazuo Sakurai
		A. Harada, presiding
12:30	2G12	Hierarchical assembly formation of filamentous viruses and their thermophysical properties <u>Toshiki Sawada</u> ,Naoki Ueda,Yuta Murata,Hironori Marubayashi,Shuichi Nojima,Junko Morikawa,Takeshi Serizawa
12:45	2G13	Size effect of block copolymer-plasmid DNA micelles on gene delivery efficiency in plants <u>Takaaki Miyamoto</u> ,Kousuke Tsuchiya,Keiji Numata
13:00	2G14	Preparation of temperature responsive nanogel for protein delivery application <u>Maho Ohshio</u> ,Shin-ichi Yusa,Kazuhiko Ishihara,Atsushi Maruyama,Naohiko Shimada
13:15	2G15	Preparation of transformable core-corona type thermoresponsive nanoparticles with controlled core glass transition temperatures and their uptake behavior to cells Yoga Kosukegawa, Masatoshi Kawase, Taka-Aki Asoh, Ryo Ishihara, Akihiko Kikuchi

T. Serizawa, presiding

13:30	2G16	Preparation of extracellular vesicle by electric field induced methods and evaluation of their biotechnological function <u>Ai Amano</u> , Yuko Sato, Yoshihiro Sasaki, Kazunari Akiyoshi
13:45	2G17	Design and function of the polymer vesicles composed of amphiphilic graft- type saccharides
		Tomoki Nishimura, Sishi Shen, Shinichi Sawada, Sadaatsu Mukai, Yoshihiro Sasaki, Kazunari Akiyoshi
14:00	2G18	Development of Protein-Encapsulated Yolk-shell Structure by Polyion Complex Formation Yiwei Liu, Yujiro Hamada, Takeshi Mori, Yoshiki Katayama, Akihiro Kishimura
14:15	2G19	Preparation of Stimuli-Responsive Gel Capsules via Miniemulsion Periphery RAFT Polymerization for Protein Delivery Carrier <u>Akifumi Kawamura</u> , Hiroshi Nakaura, Takashi Miyata
	N.	Shimada, presiding
14:30	2G20	Preparation of Nano-assembly from Block Copolymers Having Thymine Groups and Their ATP-responsive Behavior <u>Taira Tsuchiya</u> ,Akihumi Kawamura,Takashi Miyata
14:45	2G21	Proliferation, extension, and aggregation of fibroblast cells in the presence of anisotropic polymer assemblies <u>Kazuki Fukushima</u> , Masashi Oji, Nozomi Fujimura, Haruka Tsuchiya, Masaru Tanaka
15:00	2G22	Preparation and mechanical properties of highly oriented collagen films on scaffolds with parallel grooves <u>Yuki Matsubara</u> , Takuya Matsumoto, Chizuru Hongo, Takashi Nishino
	Α.	Kawamura, presiding
15:15	2G23	Complex formation of electrolyte polysaccharides and collagen model peptide in aqueous solution Ken Terao , Saki Ishida, Tasuku Yoshida
15:30	2G24	Dispersion state of the soybean oil-lecithin mixture in aqueous solution Kenzo Yamada, Takahiro Sato
15:45	2G25	Real-time visualization of hydrogel microspheres by high-speed AFM Shusuke Matsui,Kensuke Hosho,Takayuki Uchihashi, <u>Daisuke Suzuki</u>
16:00	2G26	Electrodynamic phenomena of model soft hydrogel microspheres <u>Takuma Kureha</u> , Takahisa Shibamoto, Takamasa Sakai, Daisuke Suzuki
16:15	2G27	Triplet-DNP in nanoporous materials towards highly sensitive MRI <u>Saiya Fujiwara</u> ,Masanori Hosoyamada,Nobuhiro Yanai,Ken-ichiro Tateishi,Tomohiro Uesaka,Nobuo Kimizuka

Fri. May 25

D. BIOPOLYMERS AND BIORELATED POLYMERS

H. Kashida, presiding

9:30	3G03	Controlled synthesis of alternating glycopolymers by a combination of RAFT copolymerization and stepwise click reactions <u>Tomomi Otsubo</u> , Jin Motoyanagi, Tomonari Tanaka, Masahiko Minoda
9:45	3G04	Precision synthesis and function of saccharides-bearing block copolymers responsive to temperature and lectin Tomonari Tanaka , Masaru Okamoto
10:00	3G05	Synthesis of amylose supramolecules by vine-twining polymerization using poly(THF-block-2-oxazoline)

		Keisuke Yano, Kazuya Yamamoto, Jun-ichi Kadokawa
		Y. Miura, presiding
10:15	3G06	Enzymatic synthesis of amylosic supramolecular network materials <u>Saya Orio</u> ,Kazuya Yamamoto,Jun-ichi Kadokawa
10:30	3G07	Construction and characterization of surface-functionalized cellulose
		nanoribbons <u>Takatoshi Nohara</u> ,Toshiki Sawada,Hiroshi Tanaka,Takeshi Serizawa
		K. Akiyoshi, presiding
10:45	3G08	Screening molecular recognition of glycopolymer for recognition of cholera toxin <u>Yuhei Terada</u> , Yu Hoshino, Yoshiko Miura
11:00	3G09	Screening of interaction between protein and glycopolymer containing hydrophobic group using surface plasmon resonance imaging (SPRI)
11:15	3G10	Yuri Kimoto, Yuhei Terada, Yu Hoshino, Yoshiko Miura Design of well-defined Glycopolymers for Controlling the Interaction with the
11.13	3010	Influenza Virus <u>Masanori Nagao</u> , Akane Kubo, Yurina Fujiwara, Teruhiko Matsubara, Yu Hoshino, Toshinori Sato, Yoshiko Miura
11:30	3G11	Affinity purification of labeled proteins by cyclodextrin modified cellulose
		monolith <u>Yuya Higuchi</u> ,Taka-Aki Asoh,Yoshinori Takashima,Akira Harada,Tsuyoshi Inoue,Hiroshi Uyama
		T. Sawada, presiding
12:30	3G12	Control of microscopic structure in nanogel crosslinked gels by acoustic wave and their physical properties Chisato Kadota , Sada-atsu Mukai, Shinichi Sawada, Yoshihiro Sasaki, Kazunari Akiyoshi
12:45	3G13	Construction and bio-function of polysaccharide nanogel cross-linked by oligonucleotides Hirokazu Iwamoto,Shinichi Sawada,Yoshihiro Sasaki,kazunari Akiyoshi
13:00	3G14	Complex Formation from Cationic and Anionic Amylose Analog
13.00	3014	Polysaccharides <u>Takuya Uto</u> ,Toshifumi Yui,Kazuya Yamamoto,Jun-ichi Kadokawa
13:15	3G15	Dissolution Simulation of Chitin in Ionic Liquids <u>Takuya Uto</u> ,Kazuya Yamamoto,Jun-ichi Kadokawa
		J. Kadokawa, presiding
13:30	3G16	Preparation of polymer monoliths using reactive cyclodextrin derivative and its application as an adsorbent Shunsuke Mizuno , Taka-Aki Asoh, Yoshinori Takashima, Akira Harada, Hiroshi Uyama
13:45	3G17	Formation of Supra-Polysaccharide Membranes by Splitting of Evaporative Air-LC Interface <u>Kosuke OKEYOSHI</u> , Kittiphong TONGSUK, Miki YAMASHITA, Kulisara BUDPUD, Takeshi SHINHAMA, Gargi JOSHI, Maiko OKAJIMA, Tatsuo KANEKO
14:00	3G18	Fabrication of micro-structured surfaces on chitosan film by using anionic polysaccharides <u>Hironori Izawa</u> ,Yuka Miyazaki,Shinsuke Ifuku,Minoru Morimoto,Hiroyuki Saimoto

Preparation of self-standing hydrogel using oxidized cellulose nanofiber by hydrothermal treatment Shin Suenaga, Mitsumasa Osada

14:15 3G19

Room H

Wed. May 23

D. BIOPOLYMERS AND BIORELATED POLYMERS

		T. Yamaoka, presiding
10:00	1H05	Fabrication of Layer-by-Layer (LbL) 3D Skin model and the application for alternatives to animal testing Masato Murakami, Takami Akagi, Mitsuru Akashi
10:15	1H06	High-Density Modification of Poly(propylene) Surface with Cholesterol End- Modified Poly(ethylene glycol) <u>Yuya Sone</u> ,Hiroyoshi Kawakami,Shoichiro Asayama
10:30	1H07	Analysis of cell adhesion mechanisms on charged polymer substrates <u>Takashi Hoshiba</u> ,Chiaki Yoshikawa,Keita Sakakibara
10:45	1H08	Facile method for the preparation of antioxidative material for stem cell culture and blood contact devise Yutaka Ikeda , Yukio Nagasaki
		Y. Nagasaki, presiding
11:00	1H09	Peptide-conjugated silane-coupling agent for improving cell affinity and suppressing platelet adhesion of decellularized vascular graft. <u>Kentaro Kojima</u> ,Atsushi Mahara,Yoshiaki Hirano,Tetsuji Yamaoka
11:15	1H10	Evaluation of cell capturing process on REDV-modified surface in microchip channel that mimics vascular graft surface <u>Atsushi Mahara</u> ,Kazuki Kitagawa,Takahiko Nakaoki,Tetsuji Yamaoka
11:30	1H11	The control of the interaction with blood components by a polymer-concentrated layer <u>Takashi AOKI</u> ,Kanta NOGAMI
		A. Kikuchi, presiding
12:30	1H12	Development of sprayable wound dressing of hydrophobically-modified gelatin particles <u>Akihiro Nishiguchi</u> ,Tetsushi Taguchi
12:45	1H13	Inhibition of cell adhesion on hydrophilic star polymer surface <u>Masayasu Totani,</u> Tsuyoshi Ando,Hisao Matsuno,Masao Tanihara,Keiji Tanaka
13:00	1H14	Effect of Hydrophobic Groups on Cell Adhesion Property to Various Substrates Coated with MPC Copolymers <u>Risa Katayama</u> ,Musashi Ikeda,Chie Kojima,Kohei Shiraishi,Akikazu Matsumoto
13:15	1H15	Synthesis and characterization of thermoresponsive graft-copolymer–trypsin conjugates <u>Yasushi Sasai,</u> Masao Morita,Naoki Doi,Yukinori Yamauchi,Masayuki Kuzuya,Shin-ichi Kondo
		T. Takeuchi, presiding
13:30	1H16	Role of intermolecular interaction forces in protein adsorption behavior at electrolyte polymer brush surfaces <u>Yuuki Inoue</u> ,Kazuhiko Ishihara

13:45	1H17	Development of a rapid tissue clearing process by using acrylamide-acrylic acid copolymer gels <u>Yuuta Ohno</u> ,Chie Kojima,Akikazu Matsumoto
14:00	1H18	Raman imaging of intracellular granule metabolism with stable isotope- labeling <u>Yusuke Yonamine</u> ,Yuta Suzuki,Nobutoshi Ota,Yo Tanaka,Takuro Ito,Yoshiko Miura,Keisuke Goda,Yasuyuki Ozeki,Yu Hoshino
14:15	1H19	Design of a Surface-Functionalized Power-Free Microchip for Sensitive Extracellular Vesicle Detection Ryo ISHIHARA, Asuka KATAGIRI, Tadaaki NAKAJIMA, Kazuo HOSOKAWA, Mizuo MAEDA, Yasuhiro TOMOOKA, Akihiko KIKUCHI
14:30	1H20	Preparation of Colored Particles with Biomolecular Ligands and Their Application for Diagnosis Systems <u>Atsuhiro Sugahara</u> ,Akifumi Kawamura,Takashi Miyata
	M	. Higuchi, presiding
14:45	1H21	Characterization of sugar-responsive dispersibility changes in serum for diagnostic nanoparticles with phenylboronic acid at the terminal of corona layers
		Kenta Yonezu, Taka-Aki Asoh, Ryo Ishihara, <u>Akihiko Kikuchi</u>
15:00	1H22	Molecularly imprinted nanocavity possessing size/shape and ligand binding domain recognition ability for selective recognition of target proteins Yuri Kamon , Toshifumi Takeuchi
15:15	1H23	Molecularly imprinted cavities bearing multiple recognition modes for highly sensitive detection of prostate specific antigen prepared by post-imprinting modifications Tetsuro Saeki, Hirobumi Sunayama, Eri Takano, Yuri Kamon, Yukiya Kitayama, Toshifumi Takeuchi
15:30	1H24	Antibody-conjugated molecularly imprinted polymers for highly sensitive fluorescent detection of exosomes Kisho Mori,Mitsuhiro Hirase,Takahiro Morishige,Eri Takano,Yukiya Kitayama,Toshifumi Takeuchi

Thu. May 24

D. BIOPOLYMERS AND BIORELATED POLYMERS

N. Takeda, presiding

9:30	2Н03	Dually cross-linked supramolecular hydrogel as shape-memory materials for cell culture Masaki Nakahata, Junki Maeda, Shinji Sakai, Akira Harada, Masahito Taya
9:45	2H04	Preparation of Photo-Sensitive Cell Culture Gel Microarrays and their Application to Cardiomyocyte Separation <u>Chie Kojima</u> , Yusuke Nakajima, Kaeda Yokoyama, Takeshi Kawano, Kenji Takatsuka, Yusuke Taki, Yuji Haraguchi, Katsuhisa Matsuura, Tatsuya Shimizu
10:00	2H05	Preparation of a replica of basement membrane of decellularized aorta <u>Tsuyoshi Kimura</u> ,Kondo Mayuka,Yoshihide Hashimoto,Toshia Fujisato,Naoko Nakamura,Akio Kishida
10:15	2Н06	Preparation of porous gelatin hydrogels and their application for 3D culture of chondrocytes <u>Guoping Chen</u> ,Xiaomeng Li,Naoki Kawazoe
	M	. Matsusaki, presiding
10:30	2H07	Spiropyran-introduced polymer thin film showing perfect photo-switching of

		microphase separation and its application to cell culture substrate <u>Masato Sakano</u> ,Keiichi Imato,Naoya Takeda
10:45	2H08	Fabrication of long and large engineered tissues in three-dimensional gel scaffolds of oriented cellulose nanofibers <u>Keiichi Imato</u> , Kenji Yoneda, Tomo Tanaka, Dong Hyun Yoon, Tetsushi Sekiguchi, Shuichi Shoji, Naoya Takeda
11:00	2H09	Design of Banacle-derived Peptide for Tissue Engineering Scaffold Daisuke Fujii,Kei Kamino,Sachiro Kakinoki, <u>Yoshiaki Hirano</u>
	Y	. Hirano, presiding
11:15	2H10	Construction of iPS-derived cardiac fibrosis models using collagen microfibers and control of fibrosis. Nishi Kouki, Misaki Komeda, Michiya Matsusaki
11:30	2H11	Improved physical stability of collagen fibers by cross-linking and application to three-dimensional tissue construction Yasuhiro Naka , Koki Nishi, Michiya Matsusaki
	T	. Yamaoka, presiding
12:30	2H12ILY	Evaluating, Designing, and Applying Hydrogel Surfaces for Biomaterials Applications <u>Aya Mizutani Akimoto</u>
13:00	2H14	Development of Tyr-crosslinked Silk Materials for Soft Tissue Regeneration Yuya Ichida, Chikako Nakazawa, Atsushi Asano, Ryo Shimada, Shintaro Nemoto, Yasumoto Nakazawa
13:15	2H15	Photo-controllable patterning and selective collection of cultured cells using nitrobenzaldehyde-functionalized polymers <u>Kimio Sumaru</u> ,Toshiyuki Takagi,Kana Morishita,Toshiyuki Kanamori
	T	. Ooya, presiding
13:30	2Н16	Synthesis of Dual Stimuli-Responsive Polymers that Undergo Sol-Gel Phase Transition in Response to Light and Biomolecule and Their Application as Cell Scaffolds Vessels Notarma Vehai Olympa Alriforni Vessensia Telepaki Miyata
12.45	01117	Yosuke Natsume, Kohei Okuma, Akifumi Kawamura, Takashi Miyata
13:45	2H17	Design of Photo/Temperature-Responsive Gels with Controllable Elastic Modulus and Hydrophilicity and Their Applications to Cell Cultures <u>Takashi Miyata</u> ,Akana Matsuda,Akifumi Kawamura
14:00	2H18	Fabrication of 3D tissues by LbL and cell accumulation technique in biopolymer culture vessel. <u>Yoshinari Tsukamoto</u> , Takami Akagi, Mitsuru Akashi
14:15	2H19	Fabrication of thermosensitive collagen gels <u>Yuichi Yukawa</u> ,Hirotaka Nakatsuji,Shinji Irie,Michiya Matsusaki
	T	. Miyata, presiding
14:30	2H20	Development of novel tissue engineering technology using extracellular matrix paper <u>Hirotaka Nakatsuji</u> , Michiya Matsusaki
14:45	2H21	Fabrication of 3D-Cancer-Stromal Tissues Using Collagen Microfibers and Evaluation of Cancer Blood Vessel Structure <u>Natsuko Kato</u> , Misaki Komeda, Michiya Matsusaki
15:00	2H22	Mechanical and biodegradable properties of poly(ethylene glycol)-modified hyaluronic acid hydrogels <u>Kazune Oda</u> ,Yuta Horibe,Tooru Ooya
	K	. Sumaru, presiding
15:15	2H23	Poly(ethylene glycol)-modified hyaluronic acid hydrogels for improved stability of a cell growth factor

		Yuta Horibe,Kazune Oda,Miyabi Kozuma,Tadaaki Nakajima,Yasuhiro Tomooka, <u>Tooru Ooya</u>
15:30	2H24	Trachea regeneration using hagh pressure engineering-based acellular tissue <u>Tetsuji Yamaoka</u> ,Michinobu Ohno,Shin Enosawa,Yasushi Fuchimoto
15:45	2Н25	Heparin-modified alpha-tricalcium phosphate granules with early osteogenic capability <u>Tetsuji Yamaoka</u> , Yoshihiro Takeda, Yoshitomo Honda, Yihua Liu, Baba Shunsuke, Yoshiya Hashimoto

Fri. May 25

D. BIOPOLYMERS AND BIORELATED POLYMERS

	•	Y. Kamiya, presiding
9:30	3H03	Minimal unit complex formed with siRNA and block-ionomer <u>Kotaro Hayashi</u> ,Shigeto Fukushima,Kensuke Osada,Nobuhiro Nishiyama,Kanjiro Miyata,Kazunori Kataoka
9:45	3H04	Effect of shear stress on structure of polyplex micelles from poly(ethylene glycol)-poly(L-lysine) block copolymers <u>Kensuke Osada</u> ,Kaori Takeda,Yuichi Yamasaki,Kazunori Kataoka
10:00	3Н05	Stabilization of polyplex micelles loaded with messenger RNA by hybridization of cholesterol modified complementary short RNA oligonucleotide Naoto Yoshinaga, Satoshi Uchida, Kensuke Osada, Horacio Cabral, Kazunori Kataoka
10:15	3Н06	Development of designer extracellular vesicles expressing immune checkpoint protein Raga Ishikawa, Shosuke Yoshida, Shin-ichi Sawada, Sada-atsu Mukai, Yoshihiro
10:30	3Н07	Sasaki,Kazunari Akiyoshi Design and function of self-assembled nanogel carrier targeting antigen presenting cells <u>Risako Miura</u> ,Yoshiro Tahara,Shin-ichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi
	;	S. Mochizuki, presiding
10:45	3H08	Target recognition ability of ligand molecules on the surface of DDS carrier
		penetrating blood-brain barrier <u>Noriko Nakamura,</u> Yasutaka Anraku,Shigeto Fukushima,Kazuko Toh,Horacio Cabral,Kazunori Kataoka
11:00	3Н09	penetrating blood-brain barrier <u>Noriko Nakamura,</u> Yasutaka Anraku,Shigeto Fukushima,Kazuko Toh,Horacio
11:00 11:15	3H09 3H10	penetrating blood-brain barrier Noriko Nakamura, Yasutaka Anraku, Shigeto Fukushima, Kazuko Toh, Horacio Cabral, Kazunori Kataoka Significance of helix formation for the structure and function of polymeric micelles incorporating platinum anticancer drugs Yuki Mochida, Horacio Cabral, Yutaka Miura, Kensuke Osada, Nobuhiro
		penetrating blood-brain barrier Noriko Nakamura, Yasutaka Anraku, Shigeto Fukushima, Kazuko Toh, Horacio Cabral, Kazunori Kataoka Significance of helix formation for the structure and function of polymeric micelles incorporating platinum anticancer drugs Yuki Mochida, Horacio Cabral, Yutaka Miura, Kensuke Osada, Nobuhiro Nishiyama, Kazunori Kataoka Development of polyzwitterion that responds to tumorous environment and its application for effective accumulation of the coated nanomaterials in tumor tissue Hiroyasu Takemoto, Abdul-Hackam Ranneh, Takahiro Nomoto, Makoto
11:15	3H10 3H11	penetrating blood-brain barrier Noriko Nakamura, Yasutaka Anraku, Shigeto Fukushima, Kazuko Toh, Horacio Cabral, Kazunori Kataoka Significance of helix formation for the structure and function of polymeric micelles incorporating platinum anticancer drugs Yuki Mochida, Horacio Cabral, Yutaka Miura, Kensuke Osada, Nobuhiro Nishiyama, Kazunori Kataoka Development of polyzwitterion that responds to tumorous environment and its application for effective accumulation of the coated nanomaterials in tumor tissue Hiroyasu Takemoto, Abdul-Hackam Ranneh, Takahiro Nomoto, Makoto Matsui, Keishiro Tomoda, Yuki Mochida, Mitsuru Naito, Nobuhiro Nishiyama Preparation of pH-/Reducing Environment-responsive Gel Particles and Their Function as Intracellular Delivery Carrier

plasma membranes

		Sakamoto Wakako, Takuro Ochiai, Naohiko Shimada, Atsushi Maruyama
12:45	3H13	Intracellular-siRNA delivery by ATP-responsive polyion complex micelles <u>Mitsuru Naito</u> ,Naoto Yoshinaga,Takehiko Ishii,Akira Matsumoto,yuji Miyahara,Kanjiro Miyata,Kazunori Kataoka
13:00	3H14	Intercellular distribution of antisense-DNA/SPG complex Nobuaki Fujiwara, <u>Shinichi Mochizuki</u> , Hiroto Izumi, Yasuo Morimoto, Kazuo Sakurai
13:15	3H15	Evaluation of macrophage endocytosis of polyphosphoesters <u>Akihisa Otaka</u> , Yasuhiko Iwasaki
	Y	. Iwasaki, presiding
13:30	3H16	Peptide-lipid-hybrid multi-lamellar vesicular carrier for drug delivery system <u>Md Mofizur Rahman, Motoki Ueda, Takuji Hirose, Yoshihiro Ito</u>
13:45	3H17	Development of cancer specific intracellular delivery system using PEG-conjugated peptide respondingto MMP-9 activity and its application for cellular function control Hiroka Sugai, Moeka Matsushima, Asako Sanbe, JIANG Nan, Masahito Inagaki, Seiji Sakamoto, Satoru Ishibashi, Ikuhiko Nakase, Asako Yamayoshi, Hiromu Kashida, Yasuyuki Araki, Hiroyuki Asanuma, Takanori Yokota, Takehiko Wada
14:00	3H18	Relationship between the hydrophilic group of DDS nanomicell and blood retention <u>Koichi Arai</u> ,Syota Fujii,Shinichi Motizuki,Kazuo Sakurai
14:15	3Н19	Molecular targeting radiotherapy by using radio-enhancement of gold nanoparticles Keiichiro Hatoyama, <u>Narufumi Kitamura</u> , Mayumi Takano-Kasuya, Yoh Hamada, Takashi Kamei, Kohsuke Gonda
14:30	3H20	Gold-nanoparticles Incorporated Molecularly Imprinted Nanogels bearing Human Serum Albumin Recognition Cavities for DDS Yukiya Kitayama , Takuya Yamada, Hiroaki Akasaka, Yu Matsumoto, Rhohei Sasaki, Toshifumi Takeuchi

Room J

Thu. May 24

D. BIOPOLYMERS AND BIORELATED POLYMERS

K. Murayama, presiding 9:30 2J03 Development of tumor-specific double-stranded RNA delivery system using hyaluronic acid to induce antigen presentation Masashi Umeda, Atsushi Moritaka, Kazuo Sakurai, Shinichi Mochizuki 9:45 2J04 Surface Design of DNA-Functionalized Gold Nanoparticles for Colorimetric Screening against Small Molecules with Drug-Nucleic Acid Interactions Yoshitsugu Akiyama, Yuichi Saikawa, Yuko Kokubo, Jaeyeon Nam, Kotoe Ichihashi, Kazunori Kimura, Akihiko Kikuchi, Tohru Takarada, Mizuo Maeda 10:00 2J05 Colorimetric Screening of DNA Damaging Agents Based on Double-Stranded **DNA-Modified Gold Nanoparticles** Kazunori Kimura, Yoshitsugu Akiyama, Tohru Takarada, Mizuno Maeda, Akihiko Kikuchi

Y. Akiyama, presiding

10:15	2J06	Effect of Poly(ethylene glycol) Molecular Weight for Evading Liver Sinusoidal Endothelial Barrier to Achieve Improved Systemic Blood Circulation Activity of Polyplex Micelles <u>Anjaneyulu Dirisala</u> ,Kensuke Osada,Theofilus A. Tockary,Shigehito Osawa,Kazunori Kataoka
10:30	2J07	Direct DNA coupling to graphene oxide by phosphoramidite chemistry Naoto YAMAGUCHI, Yuta NISHINA, Akinori KUZUYA, Yuichi OHYA
10:45	2J08	Carbohydrate-modified triangle DNA as binding inhibitor of influenza viruses <u>Miyuki Yamabe</u> ,Kunihiro Kaihatsu,Yasuhito Ebara
	K	. Osada, presiding
11:00	2J09ILY	Designing chemically modified functional oligonucleotides for control of gene silencing system, RNA interference Yukiko Kamiya
	T.	Wada, presiding
12:30	2J12ILY	Bioinspired-mineralization utilizing multifunctional peptide as two- and three-dimensional reaction fields <u>Kazuki Murai</u>
13:00	2J14	Mineralization of calcium phosphate at interface of peptide hydrogels <u>Hiroto Isobe</u> ,Kazuki Murai,Kanjiro Torigoe,Keishi Nishio,Mutsuyoshi Matsumoto
13:15	2J15	Synthesis and Adsorption Assessment of Peptides for Hybridization with Hydroxyapatite Shun Tanaka , Teruhiko Iijima, Teruhiko Matsubara, Toshinori Sato, mineo Hashizume
13:30	2J16	Preparation and Characterization of Cationic Polymeric Particles with Anilinophenyl Group <u>Hidenobu Shimizu</u> ,Michio Watanabe,Risei Wada,Masaru Okabe
	M	. Kondo, presiding
13:45	2J17	Anti-inflammatory Strategies for Immune Disease Treatment Using Apoptotic Cell Membrane Inspired Polymers. Yasuhiro Nakagawa,Yuto Yano,Atsuhiro Saitou, <u>Mitsuhiro Ebara</u>
14:00	2J18	Control of Biomolecular Functions with Molecular Glues Kou Okuro, Takuzo Aida
14:15	2J19	Photoresponsive Molecular Glues for Manipulation of Biological Events <u>Rina Mogaki</u> , Akio Arisaka, Kou Okuro, Takuzo Aida
14:30	2J20	Inhibition Effect of Liposomes on Assembly of Gold Nanoparticles Adsorbed on Lipid Membrane Kouta Sugikawa,Kotaro Matsuo,Atsushi Ikeda
14:45	2J21	Development of tetraspanin-integrated proteoliposomes toward construction of artificial exosome Shuheng Yan, Mitsuru Ando, Yoshihiro Sasaki, Kazunari Akiyoshi
	K	. Sada, presiding
15:00	2J22	High ordered structure of UCST-type thermo-responsive citrulline copolypeptide Sotaro Kuroyanagi,Naohiko Shimada,Shota Fujii,Kazuo Sakurai,Atsushi Maruyama
15:15	2J23	Molecular design of photo-responsive ureido polymers containing azobenzene moieties Nao Ikeuchi , Naohiko Shimada, Keiji Murayama, Hiroyuki Asanuma, Astushi Maruyama
15:30	2J24	A nanoparticle-preparation kit using ethylene glycol-based block copolymers

with a common temperature-responsive block

<u>Yohei Kotsuchibashi</u>

Effects of PEG Addition upon Supramelecular Asymmetri

15:45 2J25 Effects of PEG Addition upon Supramolecular Asymmetric Photochirogenesis (SMAP) of 2-Anthracenecarboxylate mediated by Serium Albumin Mitsuru Okugi,Yuya Fujishiro,Sota Toyooka,Masaki Nishijima,Yasuyuki Araki,Yutaka Ikeda,Seiji Sakamoto,Yukio Nagasaki,Yoshihisa Inoue,<u>Takehiko Wada</u>

Fri. May 25

D. BIOPOLYMERS AND BIORELATED POLYMERS

	Y.	. Hoshino, presiding
9:30	3J03	Design of sulfobetaine polymers and the interaction with cell Nobuyuki Morimoto , Yoshifumi Oishi, Masaya Yamamoto
9:45	3J04	Fabrication of Molecular blocks with Cancer Cell Death Property by Self-Assembly in Response to Cancer Microenvironment Michiya Matsusaki, Yudai Shioji
10:00	3J05	Synthesis of intercellular anchoring molecules and their application to 3D-cell patterning <u>Michiya Matsusaki</u> ,Kosuke Yanagisawa
10:15	3J06	Wettability control of microstructured superhydrophobic vulcanized rubber surface by elongation <u>Yuji Hirai</u> ,Riku Tamura,Yasutaka Matsuo,Takahiro Okamatsu,Toshihiko Arita,Masatsugu Shimomura
	S.	Nagano, presiding
10:30	3J07ILY	Water transport regulation by biomimetic approaches <u>Daisuke Ishii</u>
	M	. Matsusaki, presiding
11:00	3J09	Photo-bidirectional mobility of polypeptide liquid crystalline Gels containing the different chemical properties of cross-linker. <u>Toshihiro Hiejima</u> , Hiromasa Imai
11:15	3J10	Amoeba like self-oscillating polymeric fluids with sol-gel oscillation and its analysis from microscopic/macroscopic viewpoint <u>Michika Onoda</u> ,Takeshi Ueki,Ryota Tamate,Mitsuhiro Shibayama,Ryo Yoshida
11:30	3J11	Control of channel formation in a tissue-like gel upon a continuous liquid injection <u>Daichi Fukuchi</u> , Masaki Ozawa
	D	. Ishii, presiding
12:30	3J12	Preparation and Evaluation of Hydrogel Particles for the Immobilization of Carbonic Anhydrase Ryutaro Honda , Tomohiro Gyobu, Hideto Shimahara, Yoshiko Miura, Yu Hoshino
12:45	3J13	Recognition of Conformational Changes of Proteins by Stimuli-responsive Polymers with Molecular Recognition Sites <u>Takashi Miyata</u> ,Ryota Ozaki,Akifumi Kawamura
13:00	3J14	Chiral Recognition Based on LCST-Type Thermo-Responsive Polymers Tethering Urea Groups in the Side Chains

Masami Naya, Kenta Kokado, Kazuki Sada

Room K

Wed. May 23

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

K. Mayumi, presiding				
10:00	1K05	Evaluation of gel homogeneity made from linear and four-arm PEG Prepolymers <u>Yui Tsuji</u> ,Xiang Li,Takamasa Sakai,Mistuhiro Shibayama		
10:15	1K06	Development of physical gel crosslinked with double-stranded DNA Yusuke Yoshikawa,Xiang Li,Takamasa Sakai,Ung-il Chung, <u>Mitsuhiro</u> <u>Shibayama</u>		
10:30	1K07	Dynamics of probe particles during sol-gel transition Nobuyuki Watanabe,Xiang Li,Takamasa Sakai, <u>Mitsuhiro Shibayama</u>		
10:45	1K08	Three Cooperative Diffusion Coefficients describing Dynamics of Polymer Gels <u>Takeshi Fujiyabu</u> ,Xiang Li,Takamasa Sakai		
	T	. Sakai, presiding		
11:00	1K09	Dynamics of Guest Polymer in Telechelic Polymer Networks <u>Takuya Katashima</u> ,Takamitsu Chiba,Yu Kashiwagi,Tadashi Inoue		
11:15	1K10ILI	Chemical Approaches Towards Photodynamic Hydrogels <u>Vinh Truong</u> ,Fanyi Li,John Forsythe		
	T	. Katashima, presiding		
12:30	1K12	Structure and property of poly(methyl methacrylate) containing metal salt <u>Asae Ito</u> ,Masayuki Yamaguchi		
12:45	1K13	Gel formation of konjac and mechanism <u>Koumei Harajiri</u>		
13:00	1K14	Phase Structure and Thermal Conductivity of Liquid Crystalline Epoxy / BN Composites Cured with the Mixture of Curing Agents Saki Ota, Miyuki Harada		
13:15	1K15	Controlling hierarchical fibrous structure of cellulose hydrogel <u>YunZhou Guo</u> ,Md. Tariful Islam Mredha,Tasuku Nakajima,Takayuki Kurokawa,Jian Ping Gong		
	T	. Hayakawa, presiding		
13:30	1K16ILI	Nano-Reactors and Artificial Water Channels Made by an Amphiphilic POSS Molecular Nanoparticle <u>Chien-Lung Wang</u> ,Jing-Ting Weng,Jyun-Hao Sie,Wei-Jyun Chen		
	D	. Kawaguchi, presiding		
14:00	1K18	Fabrication of Polyimide Composite Films Using Soft-Template Method and Creation of Nanostructure by Ozonolysis <u>Takahiro Komamura</u> , Yuta Nabae, Teruaki Hayakawa		
14:15	1K19	Tailored Control of Microdomain Orientations in Block Copolymer Thin Films on Non-neutral Polymer Nanolayers <u>Yuma Morimitsu</u> , Maya K. Endoh, Shotaro Nishitsuji, Keiji Tanaka, Tadanori Koga		
14:30	1K20	Development of dynamic nuclear polarization instrument for contrast variation neutron scattering experiment at iMATERIA Yohei Noda , Yukihiko Yoshida, Satoshi Koizumi		

14:45	1K21	Grazing Incident Scattering on Model Catalyst for Polymer Electrolyte Fuel Cell Satoru Ueda, Satoshi Koizumi, Seiichi Kuroda, Andrew Nelson, Robert Robinson
	M	I. Takenaka, presiding
15:00	1K22	Polymer Science by Pulsed Neutron Source - Incoherent Scattering from Hydrogen - <u>Satoshi Koizumi</u> ,Yohei Noda,Takumi Inada
15:15	1K23	Polymer Science by Pulsed Neutron Source - SANS at Compact Neutron Source - <u>Satoshi Koizumi</u> , Yohei Noda, Takumi Inada, Satoru Ueda, Tomohiro Kobayashi, Toshie Otake
15:30	1K24	Dynamical study of Polyamide/polyrotaxane alloys using X-ray photon correlation spectroscopy <u>Taiki Hoshino</u> , Takumi Wakabayashi, Keiichiro Nomura, Kohei Yamashita, Tatsuya Takamoto, Kohei Koyanagi, Sadayuki Kobayashi, So Fujinami, Tomotaka Nakatani, Masaki Takata
	T	. Hoshino, presiding
15:45	1K25	Evaluation of the prevention ability of crystal growth on tetrahydrofuran and water with poly(N-vinylamide) derivatives bearing ethylene glycol units Ryo KAWATANI , Hiroharu AJIRO
16:00	1K26	Probe diffusion in Nafion solutions <u>Caidric Indaya Gupit</u> ,Xiang Li,Ryosuke Maekawa,Naoki Hasegawa,Mitsuhiro Shibayama
16:15	1K27	Temperature- and Time-dependent Heterogeneity in a Poly(N-isopropylacrylamide) Solution <u>Takuro Kogo</u> ,Atsuomi Shundo,Chi Wang,Keiji Tanaka

Thu. May 24

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

Y. Oda, presiding 9:30 Structural characterization of deep eutectic solvents based microemulsions for 2K03 transdermal delivery Mina Sakuragi, Shinsuke Tsutsumi, Katsuki Kusakabe 9:45 2K04 Counter Anion-Specific Hydration State of Poly(quarternary ammonium cation) Brushes Yuji Higaki, Yoshihiro Inutsuka, Tatsunori Sakamaki, Kosuke Igata, Yuka Ikemoto, Norifumi L. Yamada, Atsushi Takahara 10:00 2K05 Characterization of liquid crystalline polymer brush in a nematic solvent by surface forces measurement Takuya Yanagimachi, Xiao Li, Helou Xie, Paul Nealey, Kazue Kurihara Y. Higaki, presiding 10:15 2K06 Conformational Relaxation of Polystyrene at Surface Probed by Sum-frequency Generation Spectroscopy Kim Hung Nguyen, Manabu Inutsuka, Daisuke Kawaguchi, Keiji Tanaka 10:30 2K07 Conformational Relaxation of Poly(styrene-co-butadiene) at Substrate Interface in Spin-coated and Solvent-cast Films Keiji Tanaka, Biao Zuo, Manabu Inutsuka, Daisuke Kawaguchi, Xinping Wang Control of Polymer Adhesion Based on Chain Architecture 10:45 2K08 Manabu Inutsuka, Masayuki Haraguchi, Masaaki Ozawa, Norifumi L. Yamada,Keiji Tanaka

11:00	2K09	Sum Frequency Generation Spectroscopy of Silica/Styrene-Butadiene Rubber Interfaces <u>Takako Imamura</u> ,Tomomi Masui,Hiroyuki Kishimoto,Masashi Mizukami,Kazue Kurihara
		Y. Fujii, presiding
11:15	2K10	Thermal and Solvent Annealing Effects on Exciton Dynamics in Poly(3-hexylthiophene) Films <u>Daisuke Kawaguchi</u> ,Shuhei Yamaguchi,Keiji Tanaka
11:30	2K11	Aggregation States of Thin Hyperbranched-Polymer Films in Water <u>Yukari Oda</u> ,Ryo Awane,Hisao Matsuno,Masayuki Haraguchi,Masaaki Ozawa,Keiji Tanaka
12:30	2K12	Temperature-responsivities and self-assembling behavior of double zwitterionic block copolymers <u>Jongmin Lim</u> , Hideki Matsuoka, Yoshiyuki Saruwatari
12:45	2K13	Micro-analysis of a single particle of acrylamide-based polymers formed by irradiation of a focused laser beam in water Mitsuhiro Matsumoto , Kayo Fujiwara, Taka-Aki Asoh, Tatsuya Shoji, Takashi Nishiyama, Hideo Horibe, Yukiteru Katsumoto, Yasuyuki Tsuboi
		K. Yamamoto, presiding
13:00	2K14	Coarsening behavior of lamellar-forming high-x block copolymer domains in thin film <u>Ryuichi Nakatani</u> ,Yuta Nabae,Teruaki Hayakawa
13:15	2K15	Synthesis of POSS containing block copolymers and structure analysis of micro-phase separation <u>Takumi Uchiyama</u> ,Ryuichi Nakatani,Yuta Nabae,Teruaki Hayakawa
13:30	2K16	Depth-Dependent Structural Analyses in Pac12PDI Thin Films as Revealed by Grazing Incidence Wide Angle Scattering in Tender Energy Region <u>Kazutaka Kamitani</u> , Ayumi Hamada, Yuko Konishi, Masaru Mukai, Tomoyasu Hirai, Maiko Nishibori, Ken Kojio, Atushi Takahara
		S. Nagano, presiding
13:45	2K17	Variable temperature pMAIRS analysis of molecular chain orientation in polyimide thin films during thermal curing Ryohei Ishige , Kazuyuki Tanaka, Shinij Ando
14:00	2K18	Synthesis of Novel Fluorescent Polyimides Having High Orientation Ability using Liquid Crystalline Precursor and Molecular Orientation Analysis Based on Polarized Fluorescence. <u>Keita Yanase</u> , Kazuyuki Tanaka, Ryohei Ishige, Shinji Ando
14:15	2K19	Roles of end-capping substituents in the solid-state packing and OFET performance of a multi-fused heteroacene <u>Guan-Ting Ciou</u> ,Bo-Han Lai,Chain-Shu Hsu,Chun-Kai Wang,Chin-Lung Chung,Ken-Tsung Wong,Chien-Lung Wang
		Y. Matsuda, presiding
14:30	2K20	Effect of an Organic Filler on the Crystallization Behavior of Poly (L-Lactic Acid) Amit Kumar Pandey, Rahul Patwa, Vimal Katiyar, Sono Sasaki, Shinichi Sakurai
14:45	2K21	Effects of A Liquid-Type Nucleation Agent on Crystallization of Poly (L-Lactic Acid) As Revealed by Small- and Wide-Angle X-ray Scattering <u>Diep Thi Ngoc Pham</u> , Masatsugu Mochizuki, Mikio Doi, Hideaki Takagi, Nobutaka Shimizu, Noriyuki Igarashi, Sono Sasaki, Shinichi Sakurai
15:00	2K22	DSC Study on the Concentration Dependence of A Liquid-Type Nucleation Agent on Crystallization of Poly (L-Lactic Acid) <u>Diep Thi Ngoc Pham</u> , Masatsugu Mochizuki, Mikio Doi, Sono Sasaki, Shinichi

		Sakurai	
15:15	2K23	Nucleation theory for polymer crystallization with conformation entropy <u>Hiroshi Yokota</u> ,Toshihiro Kawakatsu	
	•	O. Urakawa, presiding	
15:30	2K24	Relation between Beta transition and the molecular motion in bisphenol based polycarbonates Kohei Tanabe , Ikuro Fujino, Kei Shimotani, Kazuki Inami	
15:45	2K25	Self-assembling behavior of chemically modified cyclodextrin of polyrotaxane in the solid state	
		<u>Shuntaro Uenuma</u> ,Rina Maeda,Koichi Mayumi,Kazuaki Kato,Hideaki Yokoyama,Kohzo Ito	
16:00	2K26	Higher-Order Structure of Polyethylene Glycol and Its Blends Studied by Terahertz Spectroscopy <u>Dian Marlina</u> ,Harumi Sato	
16:15	2K27	Accelerated Discovery of High Thermal Conductivity Polymers with a Bayesian Molecular Design Method <u>Stephen Wu</u> ,Yukiko Kondow,Masa-aki Kakimoto,Isao Kuwajima,Guillaume Lambard,Kenta Hongo,Yibin Xu,Junko Morikawa,Ryo Yoshida	
Fri. May 25 B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES "English Session"			
	S. Nobukawa, presiding		

9:30	3K03	Multi-chain Slip-spring Simulations for Branch Polymers <u>Yuichi Masubuchi</u>
9:45	3K04	Micro-Channel Flow Evaluation of Electro-Rheological Nano-Suspensions <u>Katsufumi Tanaka</u> ,Arata Ichikawa,Midori Takasaki,Haruki Kobayashi,Masami Nakano,Atsushi Totsuka
10:00	3K05	Direct force measurements of polymer-polymer interactions in a flow by a scanning probe microscopy <u>Ruri Hidema</u> ,Seika Hayashi,Yoshiyuki Komoda,Hiroshi Suzuki
10:15	3K06	Effect of Intermolecular Hydrogen Bonding on the Rheological Behavior of Polycarbonate-Polyurethane <u>Osamu Urakawa</u> ,Naoya Miyawaki,Tadashi Inoue
		H. Matsuoka, presiding
10:30	3K07	Synthesis and Dilution solution properties of Biocompatible HPMA Copolymers toward DDS Kiyomasa Doi,Rintaro Takahashi,Shota Fujii,Kazuo Sakurai
10:45	3K08	Platonic micelles part 1: The effects of alkyl chain length on the aggregation behavior of monodisperse micelles <u>Shota Fujii</u> ,Rintaro Takahashi,Kazuo Sakurai,Ji Ha Lee,Shimpei Yamada
11:00	3K09	Platonic micelles part 2: Thermodynamic and kinetic consideration of the micelles with monodispersity and the discrete aggregation numbers <u>Kazuo Sakurai</u> ,Shota Fujii,Rintaro Takahashi,Ji Ha Lee
11:15	3K10	Cell Adhesion on Polymer Surfaces with Underlying Amorphous/Crystalline Phases <u>Hisao Matsuno</u> ,Shunya Irie,Toyoaki Hirata,Ruriko Matsuyama,Yukari Oda,Hiroyasu Masunaga,Yukiko Seki,Sadahito Aoshima,Keiji Tanaka
		T. Matsumoto, presiding
11:30	3K11	Synthesis and Functionalization of Catechol-Containing Triblock Copolymers

		<u>Hiroshi Yabu</u> ,Hideaki Komiyama,Shusaku Nagano,Yuki Nagao
12:30	3K12	Morphology control of carbon materials at dynamic interface by vortex LB technique
		<u>Taizo Mori</u> , Hiroyuki Tanala, Nobuhiko Mitoma, Hirotoshi Sakamoto, Shresta Lok Kumar, Kenichiro Itami, Katsuhiko Ariga
12:45	3K13	Preparation and structural control of self-assembled helical rods composed of cyclodextrins
		Hajime Shigemitsu, Sayaka Sonoda, Ayumi Teragaki, Toshiyuki Kida
13:00	3K14	Two-step thermoresponsive self-assembly of gold nanorods coated with a single kind of surface ligand
		<u>Hideyuki Mitomo</u> ,Ryo Iida,Kenichi Niikura,Kuniharu Ijiro
	N	. Torikai, presiding
13:15	0171 5	
13.13	3K15	Preparation of Cylindrical Polystyrene Particles and the Surface Absorption Behavior
10.10	3K15	
13:30	3K15	Behavior <u>Wei Li, Toyoko Suzuki, Hideto Minami</u> Fabrication of vertically aligned rod-shaped nanoparticle arrays utilizing
		Behavior <u>Wei Li,</u> Toyoko Suzuki,Hideto Minami
		Behavior <u>Wei Li, Toyoko Suzuki, Hideto Minami</u> Fabrication of vertically aligned rod-shaped nanoparticle arrays utilizing polyelectrolyte polymer brushes <u>Satoshi Nakamura, Hideyuki Mitomo, Yasutaka Matsuo, Kenichi Niikura, Miho</u>
13:30	3K16	Behavior <u>Wei Li, Toyoko Suzuki, Hideto Minami</u> Fabrication of vertically aligned rod-shaped nanoparticle arrays utilizing polyelectrolyte polymer brushes <u>Satoshi Nakamura, Hideyuki Mitomo, Yasutaka Matsuo, Kenichi Niikura, Miho Aizawa, Atsushi Shishido, Kuniharu Ijiro</u> Ordering of Sphere-Forming Triblock Copolymer in a Confined Space

Room L

Wed. May 23

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

10:15 1L06 Photoinduced crater pattern formation by surface heterostructure fabricated by inkjet printing on polymer films Issei Kitamura, Mitsuo Hara, Shusaku Nagano, Takahiro Seki 10:30 1L07 Preparation and evaluation of photomobile property of crosslinked Nbenzylideneaniline liquid crystalline polymer Mizuho Kondo, Kotaro Makino, Kotera Koichi, Yamaguchi Wataru, Fukae Ryohei, Kawatsuki Nobuhiro 10:45 1L08 Photo-Switchable Optical Resonators and Arrays from Fluoresent Diarylethene Daichi Okada, Yusuke Kitayama, Zhang-Hong Lin, Masakazu Morimoto, Jershing Huang, Fumio Sasaki, Takeo Minari, Satoshi Ishii, Tadaaki Nagao, Masahiro Irie, Yamamoto Yohei 11:00 1L09 Analysis of Fluorescence Propeties of Polyimide Films Displaying Excited-state Intramolecular Excited-state Intramolecular Proton Transfer under Very High Eisuke Fujiwara, Ryoji Orita, Kenta Kanosue, Ryohei Ishige, Franckevicius Marius, Vysniauskas Aurimas, Gulbinas Vidmantas, Shinji Ando

S. Nagano, presiding

N. Kimizuka, presiding

11:15 1L10 Synthesis and photophysical properties of polyamides containing 1,4-

		bis(piperazinyl)-2,3-dimethylnaphthalene chromophore in the main chain Sharidan Amir,Gen-ichi Konishi		
11:30	1L11	Controlling of nanostructures in ionic liquids for photon upconversion based on triplet exciton diffusion <u>Shota Hisamitsu</u> ,Nobuhiro Yanai,Nobuo Kimizuka		
12:30	1L12	Synthesis of Main-chain scission type hyperbranched polyacetals and their application for resist materials. <u>Kouhei Shiotsuki</u> , Hiroto Kudou		
12:45	1L13	Ultrafast and High-Contrast Electrochromic Devices Based on Metallosupramolecular Polymers <u>Utpal RANA</u> ,Masayoshi HIGUCHI		
		E. POLYMERS AND ENVIRONMENT "English Session"		
		K. Sugimura, presiding		
13:15	1L15	Preparation and Characterizations of Chitosan Film Containing Ionic Liquid for Used as Gel Electrolyte in Electric Double-Layer Capacitor <u>Ditpon Kotatha</u> ,Keito Shinomiya,Mayuko Ogino,Satoshi Uchida,Masashi Ishikawa,Tetsuya Furuike,Hiroshi Tamura		
13:30	1L16	Deproteinization of Skim Natural Rubber Latex <u>Bhumin Thanardna</u> ,Hiroshi Tamura,Tetsuya Furuike		
13:45	1L17	Synthesis and Optimization of Lipase-catalyzed Dextrin Esters for Regioselective Substitution Hakyong Lee , Satoshi Kimura, Tadahisa Iwata		
14:00	1L18	Synthetic spider silk protein in marine photosynthetic bacterium <u>Choon Pin Foong</u> ,Keiji Numata		
A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS "English Session"				
		A. Hashidzume, presiding		
14:30	1L20	Surface-grafting of Poly(dimethylsiloxane) by Surface-initiated Anionic Polymerization <u>Motoyasu Kobayashi</u> , Tatsuya Kawabata, Taketo Numazawa, Kazuo Yamaguchi		
14:45	1L21	Synthesis of hybrid polymers based on trifluoropropyl-substituted incompletely condensed caged-type silsesquioxane <u>LINA LI</u> ,Hiroaki Imoto,Kensuke Naka		
15:00	1L22	Reversible topochemical polymerization inside confined spaces <u>Kei Saito</u>		
		F. Sanda, presiding		
15:15	1L23	Preparation of Triblock copolymer with polyurethane in the middle block and its physical properties <u>Lei Chen</u> , Mikihiro Hayashi, Akinori Takasu		
15:30	1L24	Synthesis of Dense 1,2,3-Triazole-Based Block Copolymers: Their Self-Assembly and Thermoresponsive Behavior in Aqueous Solution Yanqiong YANG, Akihito HASHIDZUME		
15:45	1L25	Synthesis and Self-Assembly of In-Chain Functionalized Poly(Styrene)-b-Poly(Methyl Methacrylate) using 1,1-Diphenylethylene Derivatives Kevin Wylie, Yuta Nabae, Teruaki Hayakawa		

Formation of Graphene Nanoribbon Mediated by Metal-Organic Frameworks

16:00 1L26

<u>Michael MacLean</u>,Takashi Kitao,Ryoto Hongu,Susumu Kitagawa,Takashi Uemura

T. Hayakawa, presiding

16:15	1L27	Self-Assembly Behavior of the Host-Guest Complex formed by POSS derivatives and Hydrophilic NDI Wei-Cheng Peng, Meng-Hsuan Jao, Shih-Ting Lan, Chien-Lung Wang
16:30	1L28	Supramolecular Chemistry and Nanotechnology of Low Generation Amphiphilic Dendrimers (AD) <u>Jyun-Hao Sie</u> ,Chi-Hao Shiang,Chien-Lung Wang
16:45	1L29	Synthesis and Crosslinking Reaction of Polyacetylenes Substituted with Benzoxazine Rings <u>Masahide Goto</u> ,Yu Miyagi,Masaki Minami,Fumio Sanda

Thu. May 24

D. BIOPOLYMERS AND BIORELATED POLYMERS "English Session"

N. Shimada, presiding 9:30 2L03 A cell-penetrating peptides (CPPs) library screening for Escherichia coli (E. coli) MD MONIRUL ISLAM, Kazusato Oikawa, Yoko Horii, Takeshi Yoshizumi, Keiji Numata 9:45 2L04 Engineering of Protein Crystal Lattice for Assembly into Biosupramolecules Tien Khanh Nguyen, Hashiru Negishi, Satoshi Abe, Takafumi Ueno 10:00 2L05 Toward the Synthesis of Biomimetic Spider Dragline Silk Ali Andres Malay, Keiji Numata S. Abe, presiding 10:15 2L06 G-quadruplex-Functionalized Gold Nanoparticles, A New Door for Cisplatin Detection Surachada Chuaychob, Panote Thavarungkul, Proespichaya Kanatharana, Chittanon Buranachai, Chongdee Thammakhet-Buranachai, Masahiro Fujita, Mizuo Maeda 10:30 2L07 Cationic polymer chaperons the allosteric nucleic acid enzyme Orakan Hanpanich, Naohiko Shimada, Atsushi Maruyama AFM Visualization of Cellulose Fibrils in Live Plant Cell Wall 10:45 2L08 Neval Yilmaz, Yutaka Kodama, Keiji Numata K. Numata, presiding 11:00 Preparation of Elastic Cellulose Film Using Ionic Liquid 2L09 Muhammad Abdul Haq, Yasuhiro Habu, Kazuya Yamamoto, Akihiko Takada.Kadokawa Jun-ichi 11:15 2L10 Tinder Fungus (Fomes Fomentarius) as a Source for Nanocellulose Olaf Karthaus, Tatsuhiro Niwa Cyclodextrin-based glyco-clusters: NMR spectroscopic characterization, 11:30 2L11 inclusion mode, and relevant lectin recognition analysis Bin Han, Nobuo Sakairi K. Miyata, presiding Amyloid beta-assembly induced by multiple kinds of gangliosides in lipid 12:30 2L12 membrane Teruhiko Matsubara, Mako Nakai, Toshinori Sato 12:45 2L13 Suppression of heat-induced denaturation of proteins via complexation with

amphiphilic poly(ethylene sodium phosphate)

		Susita Noree, Yasuhiko Iwasaki
13:00	2L14	Preparation of chiral phenolic resins promoted by chiral silica matrices possessing amine residues Seiji Tsunega , Ren-Hua Jin
13:15	2L15	Synthesis of Elastin Mimicking Polypeptides by Chemoenzymatic polymerization of Periodic Di- and Tri-peptide Motifs <u>Prashant Gopal Gudeangadi</u> , Kousuke Tsuchiya, Keiji Numata
	Y.	Ishida, presiding
13:30	2L16ILI	Engineering Conducting Polymer Surfaces for Biosensing Applications Jhih-Guang Wu, Yue Chen, Po-Chun Huang, Jie-Hao Chen, <u>Shyh-Chyang Luo</u>
	Y.	Ohya, presiding
14:00	2L18	Surface grafting to medical ePTFE for small-diameter vascular grafts <u>Yihua Liu, Maria Chiara Munisso, Atsushi Mahara, Yusuke Kambe, Kyoko Fukazawa, Kazuhiko Ishihara, Tetsuji Yamaoka</u>
14:15	2L19	Regulation of pluripotency through decoupling surface chemistry and polymer physics using double network hydrogels <u>Martin Frauenlob</u> , Daniel R. King, Masumi Tsuda, Takayuki Kurokawa, Shinya Tanaka, Jian P. Gong
14:30	2L20	Development of thiol-crosslinked micelle for systemic delivery of antisense oligonucleotide to treat brain diseases <u>HyunJin Kim</u> , HyunSu Min, Keisuke Katsushima, Yutaka Kondo, Kanjiro Miyata, Kazunori Kataoka
14:45	2L21	Development of a novel tissue plasminogen activator installed redox-active nanoparticles for ischemic stroke therapy <u>Ting Mei</u> ,Binh Long Vong,Kim Ahram,Aiki Marushima,Sandra Puentes,Akira Matsumura,Yuji Matsumaru,Yukio Nagasaki
	K.	Osada, presiding
15:00	2L22	Sustained drug releasing systems using temperature-responsive injectable polymers containing liposomes Yuta Yoshizaki , Akinori Kuzuya, Yuichi Ohya
15:15	2L23	Tuning the Drug Release kinetics of pH-responsive Polymeric Micelle to achieve better therapy outcome in a Glioblastoma model. <u>Sabina Quader</u> ,Xueying Liu,Hiroaki Kinoh,Kazunori Kataoka
15:30	2L24	Development of flexible and biodegradable block copolymers for effective delivery of mRNA <u>Takuya Miyazaki</u> ,Satoshi Uchida,Horacio Cabral
15:45	2L25	Anticancer polymer prodrugs: targeted delivery and cascade amplification release Mingzhou Ye,Ding Hu,Hongxia Xu, <u>Jianbin Tang</u> ,Youqing Shen

Room M

Wed. May 23

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

T. Suga, presiding

10:00 1M05 Synthesis of nitrogen- and defect-induced mesoporous carbon by block copolymer templated carbonization of nitrogen containing polymer

		<u>Yuta Nabae</u> ,Ling Gao,Shinsuke Nagata,Koshi Ohnishi,Yuanyuan Liu,Li Sheng,Teruaki Hayakawa
10:15	1M06	Carbon Nanotube-based non-precious metal fuel cell catalyst design Naotoshi Nakashima, Jun Yang, Junfang Cheng, Jie Tao
10:30	1M07	Analysis of Drying Process of Coated Catalyst Ink for Polymer Electrolyte Fuel Cells by Grazing-Incidence X-ray Scattering <u>Maito Koga</u> , Hidetoshi Matsumoto, Masatoshi Tokita, Hiroyasu Masunaga, Takaaki Hikima, Hidekazu Sugimori, Takashi Sasabe, Toshihiko Yoshida, Kazuhiko Shinohara, Shuichiro Hirai
10:45	1M08	Thermo-Electrochemical Cell Development by Using Temperature Responsive Nanogel <u>Benshuai Guo</u> ,Yu Hoshino,Teppei Yamada,Yoshiko Miura
	Y.	Terada, presiding
11:00	1M09	Poly(vinylfluorenone) nanoparticles as a hydrogen carrier <u>Kouki Oka</u> ,Shuhei Furukawa,Ryo Kato,Kenichi Oyaizu,Hiroyuki Nishide
11:15	1M10	Amorphous covalent organic nanoflakes with quinone moiety and their electrochemical properties <u>Jumpei Suzuki</u> ,Kosuke Sato,Hiroaki Imai,Yuya Oaki
11:30	1M11	TEMPO- and Anthraquinone-containing Polymer Particles as Cathode- and Anode- active Materials for Mass-transfer Controlled Redox Flow Battery System Ying-Lin Huang, Kenichi Oyaizu, Hiroyuki Nishide
	Α.	Saeki, presiding
12:30	1M12	Perovskite Crystals Formed with TEMPO-Substituted Polymers as an Effective Scaffold and their Photovoltaic Characteristics Koki Suwa, Kenichi Oyaizu, Hiroshi Segawa, Hiroyuki Nishide
12:45	1M13	Facile and scalable fabrication of perovskite solar cell in ambient air via ultrasonic spray coating <u>Li-Hui Chou</u> ,Cheng-liang Liu
13:00	1M14	Fabrication of Mixed-Organic-Cation Perovskite Solar Cells by Ultrasonic Spray Technique <u>Yi-Shan Chou</u> ,Cheng-Liang Liu
13:15	1M15	Synthesis and Properties of Naphthobispyrazine-Based Semiconducting Polymers <u>Tsubasa Mikie</u> ,Itaru Osaka
	K	. Terao, presiding
13:30	1M16	Analysis of evaporative cooling from a hybrid heat-mass exchanger made of polyvinyl alcohol hydrogel <u>Massimiliano Zamengo</u> ,Junko Morikawa
13:45	1M17ILY	Resin-supported flavopeptides that catalyze aerobic oxygenations Yukihiro Arakawa
14:15	1M19	Synthesis of chiral polyesters of cinchona alkaloids for the enantioselective catalysis in the Michael addition of anthrone to nitroalkenes Kumpuga Bahati Thom , Naoki Haraguchi, Shinichi Itsuno
	Y.	Arakawa, presiding
14:30	1M20ILI	Polysaccharide Derivatives Bearing Various Functional Substituents for Efficient Enantioseparation <u>Jun Shen</u> ,Fan Wang,Wanying Bi,Yoshio Okamoto
15:00	1M22	Chiral separation and chain dimensions of cyclic amylose carbamates <u>Akiyuki RYOKI</u> ,Yuto KIMURA,Shinichi KITAMURA,Ken TERAO
15:15	1M23	Colorimetric Chiral Cation Sensing on Helical Poly(diphenylacetylene)

Derivatives Bearing Chiral Crown Ether Pendants Azusa Mizukami, <u>Daisuke Hirose</u>, Tatsuya Nishimura, Shigeyoshi Kanoh, Katsuhiro Maeda

K. Maeda, presiding

15:30	1M24	Elucidation of preferential CO2 transport mechanism of alkanolamine- containing polymeric membranes <u>Ikuo Taniguchi</u> ,Koki Minezaki,Kae Kinugasa
15:45	1M25	Effect of industrial impurities on gas separation performance of polymer hybrids Shinji Kanehashi , Kenji Ogino, Sandra Kentish
16:00	1M26	Separation of Poly(ethylene glycol) with different terminal groups using MOFs Benjamin Le Ouay,Chikara Watanabe,Takashi Kitao,Takashi Uemura
	T	. Miyata, presiding
16:15	1M27	Tetra-PEG Ion Gel Comprising Solvate Ionic Liquid: Effect of Homogeneous Network on Polymer Electrolyte <u>Kei Hashimoto</u> ,Masayoshi Watanabe
16:30	1M28	Dependence of mechanical properties of slide-ring gels on coverage ratio <u>Lan Jiang</u> , Chang Liu, Koichi Mayumi, Kazuaki Kato, Hideaki Yokoyama, Kohzo Ito
16:45	1M29	Relationship between Mechanical Properties and Higher-order Structure of Thermoplastic Polyester Elastomer Moldings Ryosuke Tamamura, Chisato Nonomura, Katsuhisa Yamashita, Muanchan Paritat, Yunfeng Zhao, Takashi Kurose, Hiroshi Ito

Thu. May 24

11:00 2M09

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

A. Aoki, presiding 9:30 2M03 Electrochromism of osmium-based metallo-supramolecular polymers Manas Kumar BERA, Masayoshi HIGUCHI 9:45 2M04 Thermally Stable Electrochromic Devices with Metallo-Supramolecular Polymer SANJOY MONDAL, MASAYOSHI HIGUCHI 10:00 2M05 Gradient tint smart window using metallo-supramolecular polymer Masayoshi Higuchi, Yuki Seino, Keishi Ohashi M. Higuchi, presiding 10:15 2M06 Rapid and Reversible Modulation of Reflection Colors of Cholesteric Liquid Crystals by Electrochemical Reactions Yoshimitsu Itoh, Shoichi Tokunaga, Takuzo Aida Control of molecular orientation of liquid crystalline perylene bisimide 10:30 2M07 derivatives bearing oligosiloxane moieties and reduction reaction in the thin film state Masahiro Funahashi, Shunsuke Takaoka, Shinobu Uemura 10:45 2M08 Liquid Crystalline Phthalocyanine Derivatives Bearing Branched Trisiloxane Chains: Influence of Aggregation Structures on Carrier Transport Properties Ryutaro Yamaoka, Masahiro Funahashi M. Funahashi, presiding

Rod-disc shape compatible liquid crystals of a triphenylene with six alkoxyazobenzenes: phase transition behviour in polymer matrices

Yo SHIMIZU, Hiroki MATSUMOTO, Naoki KAWAHARA, Kengo HYODO, Tsuyoshi

KAWAI, Kingo UCHIDA 11:15 2M10 Self-healing micellar ion gels via multiple hydrogen bonding Ryota Tamate, Kei Hashimoto, Tatsuhiro Horii, Masayoshi Watanabe 11:30 Microfluidic Environmental Sensors Using Liquid Metal and Ionic liquids 2M11 Hiroki Ota T. Watanabe, presiding 12:30 2M12 Dissipating energy at large length scales in polymeric systems Daniel King, Tsuvoshi Okumura, Riku Takahashi, Jian Ping Gong 12:45 2M13 Design of Hydrogels That Look Tough Using Ordinary Polymer Takashi Miyata, Chisa Norioka, Akifumi Kawamura 13:00 2M14 Design and Synthesis of Rotaxane Crosslinked Microspheres and their Application Seina Hiroshige, Takuma Kureha, Jun Sawada, Daisuke Aoki, Toshikazu Takata, Daisuke Suzuki 13:15 2M15 Infrared wavelength selective responsive soft actuators consisting of thermosensitive hydrogels of rare earth metal complex/NIPAAm copolymers Satoshi Watanabe, Kenji Kojio, Masashi Kunitake M. Kunitake, presiding 13:30 2M16 Photoresponsive properties in end-crosslinked polyimde gel synthesized with tetrafunctional crosslinker having azobenzene moiety Toshiyuki Watanabe, Masaya Matsumoto Strain-induced Fluorescence Response of Mechanophore-doped Polyurethane 13:45 2M17 Dependent on Chemical Structures Ryota Kotani, Atsuhiro Osuka, Shohei Saito Layered composites of polydiacetylene and polymer with stimuli-responsive 14:00 2M18 color-change properties at low temperature Kei Watanabe, Hiroaki Imai, Yuya Oaki 14:15 2M19 3D-Heterometallo Supramolecular Polymers for Proton Conduction Application Narayana YAMINENI, Masayoshi HIGUCHI N. Haraguchi, presiding 14:30 2M20 Development of Organic/Inorganic Hybrid Materials with Nanofibrous Molecular Templates Satoshi KAJIYAMA, Haruka SUKEGAWA, Takashi KATO 14:45 2M21 Preparaiton of composite nanomembranes of aluminosilicate nanotubes for molecular separation Anteneh Mersha, Shigenori Fujikawa 15:00 2M22 Development of Liquid-Crystalline Water Treatment Membrane for Virus Removal Daniel KUO,K. R. Sunil Kumar, Miao Miao LIU, Takeshi SAKAMOTO, Masahiro HENMI, Hiroyuki KATAYAMA, Takashi KATO 15:15 Amorphous covalent organic nanosheets combined with quinone moiety and 2M23 graphene-like structure Shoichiro Yano, Kosuke Sato, Hiroaki Imai, Yuya Okai S. Fujikawa, presiding 15:30 2M24 Structural control of thiophene nanosheets and application to supercapacitor Taichi Ikeda 15:45 2M25 Synthesis of hairy polymer microsphere by precipitation polymerization and surface-initiated ATRP and its application to asymmetric catalysis Md. Wali Ullah, Takuya Sugimoto, Naoki Haraguchi 16:00 2M26 Cyclosiloxane Derived Supramolecules for Advanced Coatings and Adhesives

		<u>Huie Zhu</u> ,Tillman Jan Buchtal,Shunsuke Yamamoto,Ali Demirci,Masaya Mitsuishi
16:15	2M27	Superhydrophobic Cellulose Nanofiber Surface Assembly for Oil-Water Separation
		Md. Mahbubul Bashar Huje Zhu Shunsuke Yamamoto Masaya Mitsuishi

Fri. May 25

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

	N	. Asakawa, presiding
9:30	3M03	Device applications of laser direct-written reduced graphene oxide microelectrode <u>Akira Watanabe</u> , Jinguang Cai
9:45	3M04	Synthesis of Aromatic Polythioureas and their Segment Block Copolymers for a Dielectric Material <u>Yang Feng</u> , Yui Hasegawa, Takeo Suga, Guanghui Chen, Shengtao Li, Hiroyuki Nishide
10:00	3M05	3,5-bis (decylthio) dithieno [3,2-b:2',3'-d] thiophene (DSDTT)-Based Smalll Molecules for High-Performance Organic Field-Effect Transistors (OFET) by Solution-Shearing Method. <u>Xian-Lun Luo</u> ,Cheng-Liang Liu,Ming-Chou Chen
10:15	3M06	Single crystallization of organic semiconductor molecules in gel capillaries <u>Satoshi Watanabe</u> ,Ryota Urata,Masashi Kunitake
	A	. Watanabe, presiding
10:30	3M07	Control of Threshold Voltage in Polymer Transistors by Electrolytes <u>Tsukuru Minamiki</u> , Michio Aiko, Tsuyoshi Minami
10:45	3M08	Electrically detected magnetic resonance of regionegular poly(3-hexylthiophene) and potential application to neuromorphic devices Naoki Asakawa, Kunito Fukuda
11:00	3M09ILI	Impact of dendrimers and conducting polymers with carbon materials for electrochemical energy storage/conversion applications. <u>Balamurugan Devadas</u> , Toyoko Imae
11:30	3M11	Colloidal suspensions based on protic ionic liquids and metal oxide nanoparticles: effect of anionic structures <u>Mayeesha Marium</u> , Muhammed Shah Miran, Kazuhide Ueno, Masayoshi Watanabe
	M	. Mitsuishi, presiding
12:30	3M12	Kinetics and temperature evolution during the bulk polymerization of methyl methacrylate <u>Yasuhito Suzuki</u>
12:45	3M13	Theoretical study of the surface between graphene and epoxy resin <u>Kazuki Mori</u> ,Nobuhiko Matsumoto,yuji Kohno
13:00	3M14	Preparation and characterization of polyimide nanocomposites reinforced with various surface modified nanodiamonds Keiya Obara, Seira Morimune-Moriya
	N	. Yoshie, presiding
13:15	3M15	Characterization of Chemically modified Nanodiamond / Natural Rubber Nanocomposite <u>Takatsugu Kato</u> , seira Morimune-Moriya
13:30	3M16	Soft and Compressible Self-healing Polycyclosiloxanes Based on Siloxane

		Equilibrations <u>Ali Demirci,</u> Huie Zhu,Shunsuke Yamamoto,Tokuji Miyashita,Masaya Mitsuishi
13:45	3M17	Phosphorylated Cellulose Nanocrystal / Imogolite Hybrid Films Prepared by Layer by Layer Assembly <u>Linlin Li</u> ,Wei Ma,Yuji Higaki,Atsushi Takahara
	Y	. Higaki, presiding
14:00	3M18	Self-assembly of crystalline cellulose oligomers into hydrogels for spatial immobilization of functional colloidal particles <u>Yuuki Hata</u> ,Toshiki Sawada,Takamasa Sakai,Takeshi Serizawa
14:15	3M19	Fabrication of nacre-like polymer/clay nanocomposites with solvent resistant property <u>Kyungmo Sung</u> ,Shintaro Nakagawa,Naoko Yoshie
14:30	3M20	Effect of Fabric Structure on the Toughness of Soft Composites <u>Yiwan Huang, Daniel R. King, Tao Lin Sun, Tasuku Nakajima, Takayuki Kurokawa, Jian Ping Gong</u>