Room A

Wed. May 26

INVITED LECTURES

Akinori Takasu, presiding

10:15 1A06IL Polymer Chemistry in Coordination Nanospaces <u>Takashi Uemura</u>

Naoya Torikai, presiding

11:00 1A09IL Novel Microphase Separated Structure in Block Copolymers Katsuhiro Yamamoto

Eiji Yashima, presiding

12:30 1A12IL New strategies for photoinduced alignment and surface morphing in LC polymer films Takahiro Seki

Shigeki Habaue, presiding

13:15 1A15IL Development of amino acid- and peptide-based smart polymer materials <u>Tomoyuki Koga</u>

Atsushi Takano, presiding

14:00 1A18IL Design and Creation of Topological Supramolecular Polymers Shiki Yagai

Koji Takagi, presiding

15:00 1A22IL Novel Precision Polymerization by Combination of Various Active Species and Mechanism Kotaro Satoh

AWARD LECTURES

Hiroshi Jinnai, presiding

15:45 1A25AL Sulfur Polymers: Materials for Sustainable Growth Kookheon Char

Toshifumi Satoh, presiding

16:30 1A28AL Self-assembly of Carbohydrate-based Block Copolymer Systems <u>Redouane Borsali</u>

Thu. May 27

INVITED LECTURES

Yukikazu Takeoka, presiding

9:30 2A03IL Self-Assembly of Macroscopic Polymer Nanocomposite Superlattices <u>Robert Macfarlane</u>

Shinichi Itsuno, presiding

10:15 2A06IL Fabrication of Artificial Iris Showing Widening/Closing Radial Motions Based on Predesigned Functional Polymers Kai-Ti Chang,Chun-Yen Liu,Jui-Hsiang Liu

AWARD LECTURES

Yoshiyuki Oishi, presiding

11:00 2A09AL Functionalization of Polyolefins Using Group 4 Polymerization Catalysts <u>Takeshi Shiono</u>

Takuji Okamoto, presiding

12:30 2A12AL Precision Design and Synthesis of Helical Macromolecules for New Dynamic Chiral Functions Michinori Suginome

Hiroyuki Asanuma, presiding

13:15 2A15AL Study of Polymer Properties and Function Using Single-molecule Spectroscopy <u>Martin VACHA</u>

Ryo Yoshida, presiding

14:00 2A18AL Development of Functional Soft Materials by Precision Molecular Assembly <u>Takanori Fukushima</u>

Satoshi Oyaizu, presiding

15:00 2A22AL Development and Industrialization of Biaxially Oriented Polypropylene Film for Heat Durable Film Capacitor in Electric Automobiles <u>Masatoshi Ohkura</u>,Testuya Asano,Tastuya Ito,Itsuo Nagai,Isamu Moriguchi

Kazue Ueda, presiding

15:45 2A25AL Invention of Bio-based Polymer Alloys and Its Applications for Automobile Plastic Parts

Jumpei Kawada, Makoto Mouri, Masayuki Kito, Toshiyuki Ario, Keisuke Kato

Yoshihiro Sasaki, presiding

16:30 2A28AL Controlled Radical Polymerization of Vinyl Ethers and Precision Polymerization-Induced Self-Assembly <u>Shinji Sugihara</u>

Fri. May 28

INVITED LECTURES

Junpei Yamanaka, presiding

9:30 3A03IL Molecular design, functionality and medical applications of biomedical polymers Kazuhiko Ishihara

Katsuhiro Yamamoto, presiding

10:15 3A06IL Highly transparent and tough composite elastomer inspired by cornea <u>Yukikazu Takeoka</u>

AWARD LECTURES

Masaru Yoshida, presiding

11:00 3A09AL Development of Multiple Controlled Radical Polymerization <u>Masami Kamigaito</u>

Hiroshi Jinnai, presiding

12:30 3A12AL Design and Applications of Polymer Membranes and Gels Based on Molecular Interactions Takashi Miyata

Joji Ohshita, presiding

13:15 3A15AL Functions of Rigid Dendrimers and Their Applications <u>Kimihisa Yamamoto</u>

Hirotaka Ihara, presiding

14:00 3A18AL Creation of functional softmaterials based on self-oscillating polymer gels <u>Ryo Yoshida</u>

Akira Kakugo, presiding

15:00 3A22AL Precision Synthesis of Molecular Assemblies through Living Supramolecular Polymerization <u>Kazunori Sugiyasu</u>

Tatsuo Maruyama, presiding

15:45 3A25AL Experimental elucidation of structure-property relationship of polymer gels <u>Takamasa Sakai</u>

Room B

Wed. May 26

POLYMERS TODAY AND BEYOND

Sadayuki Kobayashi, presiding

10:15 1B06IL Issues and Prospects for Recycling Carbon Fibers <u>Hiroshi Moritomi</u>

Yutaka Hori, presiding

11:00 1B09IL Waste plastics chemical recycle: low-carbon hydrogen & circular economy <u>Tunekichi Kuriyama</u>

Akinori Itoh, presiding

12:30 1B12IL How do fossil-based plastics and bioplastics play in a Circular Economy? <u>Nobuyuki Kawashima</u>

Sadayuki Kobayashi, presiding

13:15 1B15IL Research progress on all-biomass molded products <u>Hiroshi Nonaka</u>

Akinori Itoh, presiding

14:00 1B18IL Chemical Recycling, a key solution to realize our vision 'Circulate everything' <u>Takao Masaki</u>

Motoshi Yamanaka, presiding

- 15:00 1B22IL New Trends in Packaging for Help Drive a Circular Economy <u>Toshio Arita</u>
- 15:45 1B25IL Development of plastic recycling technology and its social implementation to realize a circular economy Youichiroh Ide

Hiroshi Nakamura, presiding

16:30 1B28IL Kao's Environmental Approach to plastic containers and packaging Shinichi Inaba

Thu. May 27

POLYMERS TODAY AND BEYOND

Hideo Fujimura, presiding

9:30 2B03IL Practical Application of Materials Informatics to Polymer Development in Nippon Shokubai Keiya Migita

Norie Watanabe, presiding

10:15 2B06IL Accelerating material development with informatics technologies <u>Hisaki Ikebata</u>

Shuichiro Ogawa, presiding

11:00 2B09IL Studies of descriptors and features of the higher order structures in polymeric materials to construct the data of materials <u>Hiroshi Morita</u>

Hirofumi Murooka, presiding

12:30 2B12IL Research and Development of Asahi Kasei for Sustainability Kazuya Noda

Morihisa Yokota, presiding

13:15 2B15IL R&D Strategy of KUREHA CORPORATIN <u>Hiroyuki Sato</u>

Makoto Nishimoto, presiding

14:00 2B18IL Open Innovation at TOYOBO <u>Yasuo Ohta</u>

Fri. May 28

POLYMERS TODAY AND BEYOND

Hiroshi Nakamura, presiding

9:30 3B03IL A once-in-a-century revolution in automotive technologies Yuichi Azuma

Kenichi Nakamura, presiding

- 10:15 3B06IL Current Status and Future Trends of Carbon Fiber Composite Materials Technology <u>Naoki Sugiura</u>
- 11:00 3B09IL Adhesive for Dissimilar Materials Bonding <u>Masato Akimoto</u>

Hiroyuki Asanuma, presiding

12:30	3B12IL	Photonics Polymer towards 8K, 5G Era <u>Yasuhiro Koike</u>
13:15	3B15IL	Development of Novel Aromatic Vinyl-based Curable Low Loss Materials for High Speed PWB <u>Masanao Kawabe</u>
14:00	3B18IL	Resin Molecular Design and Applications for 5G and Millimeter Communication <u>Masao Tomikawa</u>

Room C

Wed. May 26

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Koichi Mayumi, presiding

10:00	1C05	Experimental verification of balance of the ionic and elastic osmotic pressures of charged gels <u>Tasuku Nakajima</u> ,Ken-ichi Hoshino,Honglei Guo,Jian Ping Gong
10:15	1C06	Fracture mirror radius of highly stretchable hydrogel <u>Ryuji Kiyama</u> ,Takayuki Nonoyama,Daniel King,JianPing Gong
10:30	1C07	Semidilute scaling of osmotic pressure predicts equilibrium swelling of polymer gels <u>Takashi Yasuda</u> ,Naoyuki Sakumichi,Takamasa Sakai
10:45	1C08	Elasticity analysis of Poly(ethylene glycol) chain in water using coarse grained molecular dynamics simulation <u>Sota Nagahara</u> ,Naoyuki Sakumichi,Atsushi Kubo,Yoshitaka Umeno,Takamasa Sakai

Naoyuki Sakumichi, presiding

- 1C09 11:00 Effects of entanglements on the elasticity of randomly cross-linked networks Yuichi Masubuchi
- 11:15 1C10 Molecular Dynamics Simulation of 4-Arm Model Polymer Gel under Uniaxial Stretching
- Kosuke Aomura, Yusuke Yasuda, Koichi Mayumi, Hideaki Yokoyama, Kohzo Ito 11:30 1C11 Coarse-Grained Molecular Dynamics Simulation of Biaxial Extension of

Polvmer Gels Haru Shinohara, Takevoshi Masumoto, Kousuke Aomura, Yusuke Yasuda,Koichi Mayumi,Hideaki Yokoyama,Kozo Ito

Yuichi Masubuchi, presiding

- 12:30 1C12 Molecular Simulation of Structures and Mechanical Properties of Polymer Gels Synthesized by Living Radical Polymerization Tsutomu Furuya, Tsuyoshi Koga
- 12:45 1C13ILY Negative energy elasticity in a polymer gel Naoyuki Sakumichi

Kazuki Murai, presiding

- 13:15 1C15 Heterogeneous dynamics in the curing process of epoxy resins studied by Xray photon correlation spectroscopy Taiki Hoshino, Yasushi Okamoto, Atsushi Yamamoto, Hiroyasu Masunaga
- 13:30 1C16 Spatial distribution of nano-structures in epoxy resin using SMAXS-CT method Satoshi Kuwata, Mikihito Takenaka, Hiroki Ogawa
- 13:45 1C17 Research on hierarchical structure of rubber using anomalous scattering near K absorption edge of zinc Yuki Watanabe, Mikihito Takenaka, Shotaro Nishitsuji

Mikihito Takenaka, presiding

- 1C19 Development of Tg-less Materials via Self-polymerization of Mesogenic Epoxy 14:15 Resins Containing Schiff Base Moieties Saki Ota, Miyuki Harada
- Investigation of physical properties and structure of stereocomplex polylactic 14:30 1C20 acid gel prepared under various conditions Yukiha Kamizono, Yasuhiro Matsuda
- 14:45 1C21 X-ray CT Analysis and High Strength Mechanism of Co-continuous Network Polymers Using Epoxy Monolith. Ren Tominaga, Yasuhito Suzuki, Yoshihiro Takeda, Masaru Kotera, Akikazu Matsumoto

Yasuhiro Matsuda, presiding

- 15:00 1C22 Solid-state NMR structural analysis and mechanical property evaluation of recombinant spider silk protein gels with different secondary structures Takanori Higashi, Takehiro Sato, Takashi Morinaga, Ryo Satoh, Yu Suzuki
- 15:15 1C23 Effects of cyclodextrin on the structure and physical properties of poly(styrene sulfonic acid) gels Nana Arai, Masaki Kakiage, Masaru Yoneyama, Hiroki Uehara, Takeshi Yamanobe, Daisuke Nagai, Maiko Sasaki, Keiko Takahashi, Shinji Ozoe
- 15:30 1C24 Continuous second-order structural transition behavior induced by fusion of peptide hydrogel having different charges Kazuki Murai, Hiroto Isobe, Masato Kawamura, Keishi Nishio

Yohei Miwa, presiding

- Effects of Acid Treatment on High Elasticity of Polythiophenes with Cyclic 16:00 1C26 Siloxane Side Chains Masaki Kashimoto, Chihiro Kubota, Takuya Matsumoto, Atsunori Mori, Takashi Nishino
- Effect of Moisture Absorption on the Network Structure and Material 16:15 1C27 Properties of Epoxy Resin Satoru Yamamoto, Keiji Tanaka

- 16:30 1C28 Thermal Properties of Trifunctional Mesogenic Epoxy Thermoset Containing Triazine Ring Rvusei Nakane,Mivuki Harada
- 16:45 1C29 Synthesis and property of a structurally controlled bottlebrush polymer network Shintaro Nakagawa,Naoko Yoshie

Thu. May 27

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Naofumi Naga, presiding

- 10:00 2C05 Effect of ionic bond strength on the structure and properties of tough and selfhealing PA hydrogels <u>Haruna Tsuchibora</u>,Ya'nan Ye,Kunpeng Cui,Jien Ping Gong
- 10:15 2C06 Mechanical properties of thermoplastic elastomers with intramolecular folding by localized hydrogen bonds Natsuki Kanemura,Shintaro Nakagawa,Naoko Yoshie
- 10:30 2C07 Design of Chemical Structure around Ionic Group in Ionic Silicone Elastomer with Dynamic Crosslinks Takehito Ohya,Yohei Miwa,Shoichi Kutsumizu
- 10:45 2C08 Thermoresponsive behavior of hydrogel microspheres evaluated by various techniques

Yuichiro Nishizawa, Takumi Inui, Takayuki Uchihashi, Daisuke Suzuki

Naoko Yoshie, presiding

- 11:00 2C09 Nanostructural changes in thermoresponsive hydrogel microspheres with different charge distributions <u>Takumi Inui</u>,Yuichiro Nishizawa,Daisuke Suzuki
- 11:15 2C10 Membrane preparation from aqueous mixture containing carrageenan by meniscus splitting method Yuming WU,Koji OGURA,Isamu SAITO,Tatsuo KANEKO,Kosuke OKEYOSHI
- 11:30 2C11 Synthesis and characterization of porous polyethyleneimine by the ringopening polymerization of trifunctional aziridine compounds <u>Tomoya Takenouchi</u>,Naofumi Naga

Tatsuo Kaneko, presiding

- 12:30 2C12 Synthesis and properties of porous polymers using ring-opening addition reaction of multifunctional epoxy and amine compounds. <u>Mei Kusakabe</u>,Naofumi Naga
- 12:45 2C13 Synthesis and properties of porous polymers using Michael addition reaction of poly(ethyleneamine) and poly (ethylene glycol) diacrylate. Risako Nakai,Naohumi Naga
- 13:00 2C14 Phase structure control of organic-inorganic hybrid gels by acoustic standing waves

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Ayumu Koyama, Shin-ichi Sawada, Yoshihiro Sasaki, Kazunari Akiyoshi
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Hajime Kimura, presiding

- 13:15 2C15 Preparation of X-ray shielding films by thermal radical polymerization of styrylbismuthine derivatives <u>Yoshimasa Matsumura</u>,Kikuo Furukawa,Miyuki Miyamoto,Yoshio Nishimura,Bungo Ochiai
- 13:30 2C16 Thermal and Mechanical Properties and Flame Retardancy of Epoxy Thermosets Phosphorus-containing Monofunctional Epoxy <u>Shiori Asada</u>,Miyuki Harada,Yuka Mino
- 13:45 2C17 Benzoxazines containing π-conjugated units: Synthesis and polymerization behavior <u>Masanobu Muraoka</u>, Masahide Goto, Minami Masaki, Hiromitsu Sogawa, Fumio Sanda

Miyuki Harada, presiding

		Miyuki Harada, presiding
14:15	2C19	Phenolic resin with Glycol modified lignin <u>Hajime Kimura,</u> Morio Yonekawa,Keiko Ohtsuka,Yasunori Ohashi,Eri Takata,Thi Thi Nge,Shiho Takahashi,Tatsuhiko Yamada
14:30	2C20	Epoxy resins with high heat resistance via a new process <u>Hajime Kimura,</u> Morio Yonekawa,Keiko Ohtsuka
14:45	2C21	Synthesis of Liquid Crystalline Epoxy Monomers and Characterization of Higher-order Structures of Thermosets for Insulating and Highly Thermal Conducting Resin <u>Rika Marui</u> ,Yuta Nabae,Teruaki Hayakawa
		Kozo Matsumoto, presiding
15:00	2C22	Internal constraints in main-chain nematic elastomers <u>Takuya Ohzono</u> ,Kaoru Katoh,Hiroyuki Minamikawa,Mohand Saed,Eugene Terentjev
15:15	2C23	Reversible thermal diffusivity of LCST type phase separation induced vitrified gel <u>Tai Suzuki</u> ,Meguya Ryu,Takayuki Nonoyama,Jian Ping Gong,Junko Morikawa
15:30	2C24	Orientation of Network Chains and Thermal Conductivity of Liquid Crystalline Epoxy Modified Benzoxazine Thermosets <u>Miyuki HARADA</u> ,Yusuke AKAZAKI,Masaki MINAMI
		Takuya Ohzono, presiding
16:00	2C26	Induced Orientation and Thermal conductivity of Liquid Crystalline Epoxy Thermosets with Side-chain Mesogenic Structure <u>Maki Murai,</u> Miyuki Harada,Tsunehiko Terada,Yu Iihara
16:15	2C27	Synthesis and properties of bio-based epoxy resins using tyramine as a starting material <u>Kozo Matsumoto</u> ,Kohei Nonaka,Ryusei Hayata
16:30	2C28	Study on selection of cross-linking agent for suppressing crystallization in cross-linked elastomer of polyrotaxane and their mechanical properties <u>Shota Ando</u> ,Koichi Mayumi,Hideaki Yokoyama,Kohzo Ito

Fri. May 28

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Shoichi Kutsumizu, presiding

- 10:00 3C05ILY Preparation of stereoregular polymer on the basis of precise synthesis and characterization of its molecular aggregation state <u>Tomoyasu Hirai</u>
- 10:30 3C07 Chemistry of aluminum-polymer interfaces investigated by STEM-EELS <u>Shin Horiuchi</u>,Yida Liu,Akihisa Akiyama,Yukinori Akaike
- 10:45 3C08 Thermal stability of PMMA isolated chains deposited on a PMMA molecularly flat substrate evaluated by high-temperature AFM Ryota Umetsu, Jiro Kumaki

Shin Horiuchi, presiding

- 11:00 3C09 Effect of interfacial aggregation states on bulk mechanical properties for deoxyribonucleic acid filled with inorganic materials <u>Hisao Matsuno</u>,Yuma Morimitsu,Ayaka Kakiuchi,Keiji Tanaka
- 11:15 3C10 An Effect of Adsorption Energy on Aggregation States of Polymer Chains at Solid Interfaces Hidenobu Taneda,Daisuke Kawaguchi,Satoru Yamamoto,Keiji Tanaka
- 11:30 3C11 Orientational Imaging of Functional Groups at a Buried Interface <u>Tatsuki Abe</u>,Daisuke Kawaguchi,Keiji Tanaka

Takahiro Seki, presiding

12:30	3C12	Nanoscale Film Morphologies and Phase Transitions of Cage-Shaped Poly(caprolactone) and Its Various Topological Counterparts <u>Brian Jiwon Ree</u> ,Yoshinobu Mato,Takuya Isono,Toshifumi Satoh
12:45	3C13	Interactions between poly(substituted methylene)s with high-dense side chains and water <u>Misato Tomioka</u> ,Eichi Knnan,Takuya Matsumoto,Norifumi Yamada,Takashi Nishino
13:00	3C14	Effect of Tacticity on Interfacial Segregation for Blend Thin Films of Poly(methyl methacrylate)s with Different Taciticties Miyu Iguchi,Yoshihisa Fujii,Norifumi L. Yamada <u>,Naoya Torikai</u>
13:15	3C15	Analysis on Mechanical Properties of Styrenic Block Copolymer Ultra-Thin Films by Pseudo Free-Standing Tensile Test <u>Masayuki Saito</u> ,Kohzo Ito,Hideaki Yokoyama
13:30	3C16	Surface structure analysis of amphiphilic gel by complementary use of Neutron reflectivity and Hard X-ray photoelectron spectroscopy. <u>Eri Ito</u> ,Tatsuya Imai,Katsuhiro Yamamoto
		Naoya Torikai, presiding
13:45	3C17	Thin film formation of microgels by their adsorption at the air/water interface <u>Haruka Minato</u> ,Daisuke Suzuki
14:15	3C19	Ring-Like Self-Assembly of Silica Nanoparticles in the Presence of Amphiphilic Block Copolymers Ryo Sugahara, <u>Rintaro Takahashi</u> ,Kazuki Yamamoto,Jin Nakamura,Chikara Ohtsuki,Ayae Narutaki
14:30	3C20	Unique self-assembled structures formed by competition between phase separation and cross-linking reaction <u>Wataru Kukai,</u> Atsuahi Narumi,Hiroshi Yabu,Masaya Mitsuishi,Jun Matsui
14:45	3C21	Effect of crystalline relaxation on surface-deformation characteristics of polyethylene films. <u>Atsushi Yagi</u> ,Atsuya Higuchi,Shota Suzuki,Masaki Kakiage,Hiroki Uehara,Takeshi Yamanobe
		Hidenori Yokoi, presiding
15:00	3C22	Property of dynamic zwitterionic polymer brush <u>Katsuki Otaki</u> ,Norifumi Yamada,Kohzo Ito,Hideaki Yokoyama
15:15	3C23	Investigation of correlation between lamellae orientation and elastic modulus on polymer thin films <u>Kenshiro Kaji</u> ,Van Toan Nguyen,Hiroyasu Masunaga,Taiki Hoshino,Shinichi Sakurai,Sono Sasaki
15:30	3C24	Studies on contrast enhancement of X-ray CT images of polymer materials by γ-ray induced graft copolymerization <u>Toshimi Nakaya</u> ,Daishi KaKatsura,Eiji Tanabe,Kenji Komaguchi,joji Ohshita
15:45	3C25	Study on deformation and cavitation of polypropylene/elastomer blend <u>Takahiko Kawai</u> ,Shin-ichi Kuroda

Room D

Wed. May 26

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Toshiyuki Shikata, presiding

10:00 1D05ILY Novel Solid Polymer Electrolytes Studied from the Viewpoint of Fundamental Polymer Physics <u>Yuya Doi</u>

10:30	1D07	Segmental dynamics in supercooled liquids based on dynamically correlated networks <u>Takashi Sasaki</u> ,Yuya Tsuzuki,Tatsuki Nakane
		Yuya Doi, presiding
10:45	1D08	Structure, conformation and molecular motions of poly(vinylidenfluoride) in solution <u>Toshiyuki Shikata</u> ,Yuki Nohara
11:00	1D09	Structure and conformation of chemically modified cellulose ethers in aqueous solution <u>Toshiyuki Shikata,</u> Yuki Nohara,Erika Saiki,Misato Yoshida
11:15	1D10	Thermo-responsiveness of Carboxylated Polyallylamine Induced by Counter Ions <u>Junya Emoto</u> ,Yasumichi Yazaki,Yukiya Kitayama,Eiji Yuba,Atsushi Harada
11:30	1D11	Effect of citric acid on the thermal denaturation and renaturation behavior of xanthan <u>Koki Fujii</u> ,Ryoga Saiki,Kazuto Yoshiba,Yasuhiro Matsuda
		Yasuhiro Matsuda, presiding
12:30	1D12	Effects of cross-linking ratio on the viscoelastic behavior of poly(N,N'- dimethylacrylamide) microgel semi-dilute dispersion <u>Takuhiro Nakaura</u> ,Yuusuke Sanada,Akihiko Takada,Yukiteru Katsumoto
12:45	1D13	Effect of hydrophilic-lipophilic balances on the solution property of amphiphilic poly(ethylene oxide)-poly(propylene oxide) alternating multiblock copolymers in water <u>Kenji Sakanaya</u> ,Yusuke Sanada,Keisuke Watanabe,Yukiteru Katsumoto
13:00	1D14	Structure of micelles formed by amphiphilic triblock copolymers having poly (ethyl acrylate-co-dodecyl acrylate) as mid-block chains <u>Shuhei Ishii</u> ,Yusuke Kawamura,Isamu Akiba
		Yukiteru Katsumoto, presiding
13:15	1D15	Phase Separation Behavior of Aqueous Solutions of Poly(N- isopropylacrylamide) upon Heating <u>Jiayun Han</u> ,Rintaro Takahashi,Chen Kuang,Takahiro Sato
13:30	1D16	Liquid crystallinity of cyclic amylose carbamate in concentrated solutions <u>Ken Terao</u> ,Daigo Kabata,Akiyuki Ryoki,Shinichi Kitamura
13:45	1D17	Thermoresponsive gelation of the aqueous solutions of amphiphilic random copolymers: aggregate structures and macroscopic properties <u>Motoki Shibata</u> ,Takaya Terashima,Tsuyoshi Koga
		Ken Terao, presiding
14:15	1D19	The second virial coefficient of cyclic oligodimethylsiloxanes in a Θ solvent <u>Akiyuki Ryoki</u> ,Naohiro Osanai,Daichi Ida
14:30	1D20	Dilute aqueous solution properties of poly(2-(2-methoxyethoxy)ethyl methacrylate) Haruki Yamaguchi,Takaya Terashima, <u>Daichi Ida</u>
14:45	1D21	Colloidal Particle Structure in Lecithin-Soybean Oil-Water Emulsion <u>Kenzo Yamada</u> ,Takahiro Sato
		Daichi Ida, presiding
15:00	1D22	Effect of excluded volume and overlap of polymers under dilute and crowding conditions on molecular crystallization <u>Yuuki Hata</u> ,Xiang Li,Ung-il Chung,Shingo Nakamura,Masayuki Ishihara,Takamasa Sakai
15:15	1D23	Molecular Parameters for Brush-Like Polymers Consisting of Poly(styrene sulfonate). Taishi Matsui,Masaki Shibayama, <u>Yo Nakamura</u>
15:30	1D24	Segment Distribution around the Center of Gravity of Branched Polymers <u>Kazumi Suematsu</u>

Yo Nakamura, presiding

16:00	1D26	Structural analysis of small molecule complexes formed by schizophyllan and nucleic acids <u>Kazuki Sumiya</u> ,Takuya Matsunaga,Motoko Tanaka,Kazuo Sakurai
16:15	1D27	Small angle X-ray scattering from polysaccharide nucleic acid complexes containing two DNA molecules <u>Kazuo Sakurai,</u> Yuki Hata,Kazuki Sumiya,Takuya Matsunaga
		Ken Terao, presiding

16:30 1D28 Observation of aggregation number and morphological changes in Platonic micelles formed by Surfactin Naoto Moriyama,Eri Tabata,Shota Fujii,Isamu Akiba,<u>Kazuo Sakurai</u>

Thu. May 27

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Koichi Mayumi, presiding

- 10:00 2D05 Fabrication and Evaluation of High Performance CNT Polypropylene Composites for Material Recycling of Waste Plastics <u>Ken-ichi Niihara</u>,Wataru Kashima,Kouji Maekawa,Morinobu Endo,Toru Noguchi
- 10:15 2D06 Preparation and Properties of Synthetic Rubber with Nanomatrix Structure <u>Seiichi Kawahara</u>, Hironari Nishioka, Yoshimasa Yamamoto
- 10:30 2D07 Effects of Silane Coupling Agent on The Nanoscale Tensile Deformation Behavior for Silica Nanoparticle Dispersed Rubbers <u>Daisuke Watanabe</u>,Tomohiro Miyata,Katsuhiko Tsunoda,Yoshihiro Morishita,Hiroshi Kadowaki,Naruhiko Mashita,Hiroshi Jinnai
- 10:45 2D08 Graphene Oxide Reinforced Polyimide Nanocomposites Seira Morimune-Moriya,Nagata Yusuke

Seiichi Kawahara, presiding

- 11:00 2D09 The molecular dynamics and the mechanical properties of an epoxy resin modified with polyrotaxane <u>Akihiro Hanafusa</u>,Shota Ando,Satoru Ozawa,Masakazu Ito,Ryuichi Hasegawa,Koichi Mayumi,Kohzo Ito
- 11:15 2D10 Strength enhancement mechanism due to the phase-separated structure of PMMA/PC blends injection-molded Kazuaki Nagamori,Tetsuya Ozawa,Takashi Kuriyama
- 11:30 2D11 Effects on Dispersion State and Rheological Properties for Polystyrene Composite by a Mixing Ratio of Silica Having Different Shapes Masayuki Miyamoto,Yoshihisa Fujii,<u>Naoya Torikai</u>

Naoya Torikai, presiding

- 12:30 2D12 B Segment Distribution Analysis in the Block Copolymer Microdomain Consisting of A Chain and Random BC Chain Utilizing Anomalous Small-Angle X-ray Scattering Yoshiaki Fuwa,Hideaki Takagi,Katsuhiro Yamamoto
- 12:45 2D13 Comparison of composition dependence of microphase-separated structure for AB and ABA block copolymers. Atsushi Takano,Tsuyoshi Orido,Matsushita Yushu
- 13:00 2D14 Helical Cylinders formed from ABAC Tetrablock Terpolymers and Terpolymer/Homopolymer Blends. <u>Tsuyoshi Orido</u>,Yuta Miyamori,Jiro Suzuki,Atsushi Takano,Yushu Matsushita
- 13:15 2D15 Effect of the molecular weight distribution on defects in double-gyroid structures of block copolymers <u>Takafumi Suenaga</u>,Daisuke Watanabe,Hsiao-Fang Wang,Tomohiro Miyata,Hiroshi Jinnai

Hironori Marubayashi, presiding

- 13:30 2D16 Miscibility Calculation of Polymer Blends Using All-Atom Molecular Dynamics <u>Kazuo Yamada</u>,Nobuyuki Matubayasi
- 13:45 2D17 Structural Analysis for bi-axial drawing film with wetted system Keisuke Sotoyama,<u>Go Matsuba</u>
- 14:15 2D19 Structural analysis of a temperature-sensitive polarizing film with crystallizable side chains Tomova Okada.Go Matsuba.Takumi Kato.Minoru Nanchi
- 14:30 2D20 Crystal structure analysis of syndiotactic polystyrene and modified poly(phenylene ether) blend Hiroto Adachi,Go Matsuba,Kazuo Ikeda,Takumi Suei
- 14:45 2D21 Separation of butanol from butanol aqueous solution by syndiotactic polystyrene with nanopore crystal Takahiko Nakaoki,<u>saki Fujino</u>

Masatoshi Tosaka, presiding

- 15:00 2D22 Revealing of Nano-scale Spatial Distribution of Isotactic Polystyrene Crystallites by Nano-Diffraction Imaging <u>Hironori Marubayashi</u>,Hiroya Satoh,Shusuke Kanomi,Tomohiro Miyata,Hiroshi Jinnai
- 15:15 2D23 Orientation and crosslinking reaction analyses of uniaxially oriented crosslinkable polyimide prepared from lyotropic liquid crystalline precursor <u>Yuta Ohsako</u>,Shohei Hara,Shinji Ando,Ryohei Ishige
- 15:30 2D24 Development of Vertically Aligned Polyimide Films Using Smectic Liquid Crystalline Precursor Shohei Hara,Keita Yanase,Kazuyuki Tanaka,Shinji Ando,Ryohei Ishige

Ryohei Ishige, presiding

- 16:00 2D26 Crystallization of Isotactic Poly(N,N-diethyl acrylamide) Synthesized by Controlled Radical Polymerization in the Presence of Lanthanide Lewis Acid <u>Masatoshi Tosaka</u>,Ryosuke Imai,Yuji Imamura,Beomsu Park,Shigeru Yamago
- 16:15 2D27 Crystallization of poly(p-phenylene terephthalamide) from a dilute solution Tomoyasu Takaki,Yutaro Hara,Shota Kumano,<u>Tetsuya Uchida</u>
- 16:30 2D28 Crystallization temperature dependence of lamellar thickness of poly(trimethylene terephthalate) <u>Daisuke Tadokoro</u>,Takashi Konishi,Koji Fukao,Hideki Miyaji,Teppei Yoshida,Yoshihisa Miyamoto

Fri. May 28

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Hiroshi Jinnai, presiding

- 10:003D05β relaxation of polyfumarates without methylene spacer in the main chain
Yasuhito Suzuki,Koji Fukao,Akikazu Matsumoto
- 10:15 3D06 Universality of strain-induced density fluctuations in glassy materials <u>Shuta Aokura, Mikihito Takenaka, Hiroshi Watanabe</u>
- 10:30 3D07 Strain-Induced Density Fluctuations in Linear Low-Density Polyethylene <u>Mizuki Kishimoto</u>,Kazuki Mita,Hiroki Ogawa,Mikihito Takenaka

Mikihito Takenaka, presiding

- 10:45 3D08 Local structural analysis of polyethylene by nano-diffraction imaging <u>Shusuke Kanomi</u>,Hironori Marubayashi,Tomohiro Miyata,Hiroshi Jinnai
- 11:00 3D09 Formation of monoclinic and intermediate phases by compression of drawn ultra-high molecular weight polyethylene films <u>Sayoko Ogura</u>,Takumi Sturugai,Tomoki Hidai,Masaki Kakiage,Hiroki Uehara,Takeshi Yamanobe

- 11:15 3D10 Influences of Shape of Molecular Weight Distribution on Tensile Deformation of Polyethylene Solids Takumitsu Kida,Ryo Tanaka,Yusuke Hiejima,Koh-hei Nitta,Takeshi Shiono
- 11:30 3D11 All-atom molecular dynamics study on fracture process of semi-crystalline polyethylene Shuichi Uehara,Yang Wang,Yusuke Ootani,Nobuki Ozawa,Momoji Kubo

Koh-hei Nitta, presiding

- 12:45 3D13 Crystallization kinetics near the glass transition temperature examined by fast-scan calorimetry Akihiko Toda
- 13:00 3D14 Macro-phase Separated Structure in Block Copolymer Analyzed by Smallangle Neutron Scattering with Dynamic Nuclear Polarization <u>Katsuhiro Yamamoto</u>,Ando Kensei,Satoshi Koizumi,Noda Yohei,Maeda Tomoki

Akihiko Toda, presiding

- 13:15 3D15 Analysis of deformation behavior of poly(tetrafluoroethylene) sheets using Raman spectroscopy <u>Daisuke Kimura</u>,Asae Ito,Koh-hei Nitta,Kazufumi Toda,Shunichi Shimatani
- 13:30 3D16 A Reactive Molecular Dynamics Study on Structural Stabilization of Damaged Hydrocarbons in a Vacuum <u>Haolun Li</u>,Susumu Fujiwara,Hiroaki Nakamura,Tomoko Mizuguchi,Ayako Nakata,Tsuyoshi Miyazaki,Shinji Saito,Wataru Sakai
- 13:45
 3D17
 The Stabilization Mechanism of Cyclodextrin-Polyethylene Glycol Inclusion
Complex

Yukino Nanba, Norifumi Yamada, Kohzo Ito, Hideaki Yokoyama

Jiro Kumaki, presiding

- 14:15 3D19 Kinetics of Strain-induced Crystallization of Slide-Ring Gels Koichi Mayumi,Chang Liu,Yokoyama Hideaki,Kohzo Ito
- 14:30 3D20 Coarse-grained Molecular Dynamics Simulation of Strain Induced Crystallization in Slide-Ring Gels <u>Takeyoshi Masumoto</u>,Yusuke Yasuda,Koichi Mayumi,Takashi Uneyama,Yuichi Masubuchi,Hideaki Yokoyama,Kohzo Ito
- 14:45 3D21 Structural Analysis of Polymer Materials based on Unique X-ray Diffraction of Rigid Cyclic Molecules Kazuaki Kato,Kohzo Ito,Taiki Hoshino

Koichi Mayumi, presiding

- 15:00 3D22 High-resolution in-situ AFM observation of folded-chain crystallization of it-PMMA in a Langmuir monolayer Yuki Ono,Jiro Kumaki
- 15:15 3D23 Orientation of Chiral Poly(phenyl isocyanide) Helix Using Magnetic Field <u>Takuya Yonehara</u>,Hiroki Hayashi,Shigeki Nimori,Reiji Kumai,Hiromasa Goto
- 15:30 3D24 Melting behavior and polymorphsim of propylene-ethylene random copolymer <u>Ken TAGUCHI</u>, Akihiko TODA, Toru IMAI, Ken-ichi FUNAKI, Koji YAMADA

Katsuhiro Yamamoto, presiding

- 16:00 3D26 Kinetics of density fluctuations during the early stage of crystallization in syndiotactic polypropylene III Takashi Konishi,Daisuke Tadokoro,Koji Fukao,Yoshihisa Miyamoto
- 16:15 3D27 Microphase Separation and Lamella-Structured Thin Films of Amphiphilic Random Copolymers Takaya Terashima,Takaya Ikami
- 16:30 3D28 Syntheses and Sequence-Specific Properties of Alternating Copolymers Consisting of Common Monomer Units <u>Yuki Kametani</u>,Makoto Ouchi

Wed. May 26

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Kazuo Sakurai, presiding

- Formation mechanisms of polymeric vesicles 10:00 1E05ILY Rintaro Takahashi
- Correlation between shape and stimuli responsiveness of PIC micelles with 10:30 1E07 sulfobetaine as shell

Dongwook Kim, Hideki Matsuoka, Yoshiyuki Saruwatari

Tomoyuki Koga, presiding

- Construction of polymeric Platonic micelles composed of bottlebrush-based 10:45 1E08 surfactants Shota Fujii,Kazuo Sakurai
- 11:00 1E09 Phase separation of toothbrush polymer consist comp type poly(alkyl oxazoline) with functional side chains and hydrophilic PNIPAM Hiroaki Shigemitu, Wenli Wang, RenHua Jin
- Synthesis of triblock copolymer composed of different betaine chains, and self-11:15 1E10 organization and temperature and pH responsiveness in solution Hirovoshi Kameshima, Hideki Matsuoka, Yoshivuki Saruwatari
- 11:30 Stabilization of amphiphilic copolymer lamellae formed by nanophase 1E11 separation using cross-link reaction Kohei Amada, Wataru Kukai, Jun Matsui

Masato Suzuki, presiding

- Temperature-induced supramolecular morphological transition prepared from 12:30 1E12two kinds of amphiphilic polypeptides having different hydrophilic polypeptoids Hirotaka Uji,Shota Yoshida,Keiji Numata,Shunsaku Kimura
- 12:45 1E13 Alkyl side chains effect to the phase separation of poly(N-alkyl acrylamides-bethylene glycol) thin films. Mizuki Ohke, Wataru Kukai, Atsushi Narumi, Hiroshi Yabu, Masaya Mitsuishi,Jun Matsui
- 13:00 1E14 Enzymatic Synthesis and Self-Assembled Structures of Cellulose Chains with Unique Shapes Kai Sugiura, Toshiki Sawada, Hiroshi Tanaka, Takeshi Serizawa

Hidenori Otsuka, presiding

- Surface Modification of Polyurea Thin Film with Polyether Chains 13:15 1E15 Ryo Tabata, Ryosuke Matsubara, Atsushi Kubono
- 13:30 1E16 Surface graft polymerization on silica capsules containing radical initiator group on their surface Yuichi Iki,Reiko Saito
- 13:45 Colloidal Structure of Silica Ring/Polystyrene Sphere 1E17 Fumiya Takahashi, Mana Fujii, Daiki Tsujita, Toyoko Suzuki, Hideto Minami

Hideto Minami, presiding

- Polymer Insertion Dynamics into Metal-Organic Frameworks 14:15 1E19 Noriyoshi Oe,Nobuhiko Hosono,Takashi Uemura
- Elucidation of adsorption behavior of polybenzimidazole onto carbon materials 14:30 1E20 surface by adsorption isothermal measurement Nana Kayo, Naoki Tanaka, Tsuyohiko Fujigaya
- Properties of surface layer of flexible polymer substrates treated with vacuum 14:45 1E21 plasma and UV lamps for their application in electroless deposition <u>Toshiyuki Tamai</u>,Mitsuru Watanabe,Yasuyuki Kobayashi,Jyunpei Kobata, Yoshio Nakahara, Setsuko Yajima

Hidenori Yokoi, presiding

15:00	1E22	Thermal Molecular Motion of Polystyrene Thin Film on Gold Electrode
		Daiki Komiyama, <u>Yoshihisa Fujii</u> ,Naoya Torikai

Takumitsu Kida, presiding

15:15	1E23	Plasticization of azobenzene containing polyester by photo-isomerization
		<u>Shogo Nobukawa</u> ,Tomoya Kimura,Katsuhiro Inomata

15:30 1E24 Mechanical properties of poly(methyl methacrylate) with salt under moisture condition

Arisa Shin, Asae Ito, Koh-hei Nitta

Shogo Nobukawa, presiding

16:00	1E26	High strain-rate compression of polyolefin solids by split Hopkinson bar method <u>Yusuke Hiejima</u> ,Ippitsu Ryohei,Masahiro Higuchi,Koh-hei Nitta
16:15	1E27	Analysis of failure in isotactic polypropylene damaged by falling weight impact test <u>Ryohei Ippitsu</u> ,Yusuke Hiejima,Koh-hei Nitta
16:30	1E28	Automated calculation system of physical properties with molecular dynamics calculation for polymer informatics <u>Yoshihiro Hayashi</u> ,Stephen Wu,You Noguchi,Junichiro Shiomi,Junko Morikawa,Ryo Yoshida

Thu. May 27

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Shoichi Kutsumizu, presiding

- 10:30 2E07 Phase Transition Behavior of Bridged-stilbene Liquid Crystals <u>Riki Iwai</u>,Gen-ichi Konishi
- 10:45 2E08 129Xe NMR analysis of continuous nano-porosity in a columnar liquid crystal of a macrocyclic mesogen with gaseous Xe as the probe Shin-ichiro Kawano,Takahiro Taki,Hiroaki Yoshimizu,Kentaro Tanaka
- 11:00 2E09ILY Twist-bend nematic liquid crystals with chalcogen-based linkages Yuki Arakawa

Yuichi Masubuchi, presiding

- 12:45 2E13 Pre-History and Flow Behavior of Electro-Rheological Nano-Suspensions <u>Katsufumi Tanaka</u>,Izumi Tateisi,Yuki Maenaka,Midori Takasaki,Haruki Kobayashi
- 13:00 2E14 High-Sensitivity Detection of Latex Agglutination by Ultrasound Scattering Techniques Kana Kitao,Hideyuki Nakanishi,Tomohisa Norisuye
- 13:15 2E15 Evolution of the Elastic Properties of Particles during Solvent Evaporation in Liquid Droplet Kazuto Tsuji,Hideyuki Nakanishi,Tomohisa Norisuye
- 13:30 2E16 Theoretical Analyses of Time Evolution of Molecular Weight Distribution by Random and Chain-End Scission Models Takashi Uneyama

Takashi Uneyama, presiding

- 13:45 2E17 Coarse-grained molecular simulations of the elongational viscosity of entangled star polymers Yuichi Masubuchi
- 14:15 2E19ILY In-situ observation and prediction using the same techniques of crystallization process in an injection molding machine <u>Takuro Matsunaga</u>

Kazuo Sakurai, presiding

14:45	2E21	Identification of atomic-scale structures in polymer chains using electron microscopy <u>Tomohiro Miyata</u> ,Raita Goseki,Takashi Ishizone,Hiroshi Jinnai
15:00	2E22	Noise-free dynamic light scattering via all-photon recording method <u>Takashi Hiroi</u> ,Sadaki Samitsu,Kunie Ishioka
	Та	akashi Hiroi, presiding
15:15	2E23	Analysis of sub-micro particle solutions using Mie scattering <u>Kazuo Sakurai</u> ,Takuma Kanamaru,Takuya Matsunaga,Ryohei Ono
15:30	2E24	Comparison of different instruments for the analysis of sub-micro particle solutions <u>Takuma Kanamaru</u> ,Kazuo Sakurai,Takuya Matsunaga,Ryohei Ono

Room F

Wed. May 26

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Yuichi Ohya, presiding

10:00	1F05	Optical tissue clearing using polymer hydrogels produced by various zwitterionic monomers <u>Chie Kojima</u> ,Takayuki Koda,Akikazu Matsumoto
10:15	1F06	Development of tissue adhesive microparticles for perforation closure after early gastrointestinal cancer removal <u>Shima Ito</u> ,Akihiro Nishiguchi,Fumisato Sasaki,Hidehito Maeda,Masayuki Kabayama,Akio Ido,Tetsushi Taguchi
10:30	1F07	Development of a tissue adhesive fiber sheet enabled the sealing of lung defect <u>Hiroaki Ichimaru</u> ,Yosuke Mizuno,Xi Chin,Akihiro Nishiguchi,Tetsushi Taguchi
10:45	1F08	Preparation of Poly(2-methoxyethyl acrylate) Microparticles Eliciting Cell Affinity <u>Shinnosuke Nishimura</u> ,Kei Nishida,Shunsuke Nakao,Hiroki Uehara,Takahisa Anada,Masaru Tanaka
	Ye	oshinori Takashima, presiding
11:00	1F09	Development of a gas sensor by solid DNA using Membrane-type Surface stress Sensor (MSS) <u>Tomohiro Murata</u> ,Tomohiko Yamazaki,Kosuke Minami,Genki Yoshikawa,Katsuhiko Ariga
11:15	1F10	Construction and functional evaluation of hybrid cell spheroids based on polysaccharide microspheres <u>Shunya Hayashi</u> ,Yoshihiro Sasaki,Shin-ichi Sawada,Sada-atsu Mukai,Eriko Marukawa,Hiroyuki Harada,Kazunari Akiyoshi
11:30	1F11	Degradation control of reductively responsive cationic gel particles and their application as nucleic acid delivery carrier <u>Akifumi Kawamura</u> ,Shun Fujisawa,Takashi Miyata
	Та	akashi Miyata, presiding
12:30	1F12ILY	Strong Phase Separated Soft Materials Possessing Rubbery-to-Glassy Transition with Elevating Temperature <u>Takayuki Nonoyama</u>
13:00	1F14	Evaluation for the diameter of secondary magnetic particles in magnetic hydrogels by magnetorheology <u>Junko Ikeda</u> ,Tomoki Kurihara,Keijyu Ogura,Mika Kawai,Tetsu Mitsumata
13:15	1F15	Star-Crosslinked Hydrogel with Super-Multiple Crosslinking Points Surrounded by Highly Dense Thermoresponsive Free-End Chains Shogo Toda, <u>Shohei Ida</u> ,Masatoshi Oyama,Hiroki Takeshita,Shokyoku Kanaoka

Chie Kojima, presiding

- 13:30 1F16 Gelation of ionic liquid electrolytes by cross-linking reaction between oxazoline polymer and dicarboxylic acid terminated polymer Tomoki Furukawa,<u>Atsushi Aoki</u>
- 13:45 1F17 Layered Polydiacetylene with Tuned Flexibility for Color Changes in Low- and Wide-Temperature Ranges Aya Edagawa,Hiroaki Imai,Yuya Oaki
- 14:15 1F19 Wide-Range Temperature-Responsive Color-Change Properties of Conjugated Polymer Based on Self-Assembled Macrocyclic Diacetylene and Guest Molecules <u>Nano Shioda</u>,Bubsung Kim,Jung-Moo Heo,Hiroaki Imai,Jong-Man Kim,Yuya Oaki
- 14:30 1F20 Development of photo-curable temperature-responsive injectable polymer system

Ayaka Ashida, Nozomi Mayumi, Nobuo Murase, Yuichi Ohya

Mikihiro Hayashi, presiding

- 14:451F21Property evaluation of topological gels prepared with a soluble "Molecular Net"
and penetrating polymerization
<u>Yuto Nakazawa</u>, Ryota Dohi, Fumika Seko, Nobuo Murase, Yuta
Yoshizaki, Akinori Kuzuya, Yuichi Ohya
- 15:00 1F22 Evaluation of properties of the topological gel consisting of PNIPAAm physically constrained by soluble molecular nets <u>Takahiko Yasui</u>,Fumika Seko,Ryota Dohi,Nobuo Murase,Yuta Yoshizaki,Akinori Kuzuya,Yuichi Ohya
- 15:15 1F23 Structural design of self-oscillating polymers toward the system driven by only organic acids <u>Takahiro Ono</u>,Toshiki Yoshizawa,Takafumi Enomoto,Michika Onoda,Takeshi Ueki,Ryota Tamate,Aya Akimoto,Ryo Yoshida
- 15:30 1F24 Control of sol-gel transition temperature of biodegradable injectable polymers by control of the molecular structures Chihiro Moriwaki,Kenta Horii,Nobuo Murase,Yuichi Ohya

Tetsu Mitsumata, presiding

- 16:00 1F26 Dynamics of wrinkles on hydrogel surface prepared by electrophoretic approach <u>Yuka Kashihara</u>, Taka-Aki Asoh, Hiroshi Uyama
 16:15 1F27 Memory-editable Shape-memory Cross-linked Resins by utilizing Vitrimer-concept <u>Mikihiro Hayashi</u>, Akira Katayama
 16:30 1F28 Preparation of cationic poly(vinyl alcohol) films via copolymers consisting of benzoxaborole and their functional properties
- Kazuma Fujimoto, Yohei Kotsuchibashi16:451F29Design of Temperature-Responsive Gels That Regulate Molecular Binding
Ability by Structural Change and Their Applications to Drug Delivery
Yuto Toyoshima, Yuki Tanaka, Akifumi Kawamura, Yoshinori
Takashima, Takashi Miyata

Thu. May 27

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Osamu Tsutsumi, presiding

10:00 2F05 Design of hydrogels based on the network structure reaction in radical polymerization: The use of RAFT polymerization <u>Tsukuru Masuda</u>, Madoka Takai
 10:15 2F06 Toughening Polymer Networks by Sacrificial Dynamic Covalent Bonds: Radical-type Mechanophore vs. Diels-Alder Adduct Daisuke Aoki, Kota Seshimo, Hideyuki Otsuka

10:30	2F07	Preparation of hard core-soft shell microspheres by seeded precipitation polymerization <u>Kenshiro Honda</u> ,Yuichiro Nishizawa,Haruka Minato,Matthias Karg,Daisuke Suzuki
10:45	2F08	Fabrication of soft actuators by three-dimensional adhesion of microgel <u>Taka-Aki Asoh</u> ,Shiho Takai,Hiroshi Uyama
		Ryo Yoshida, presiding
11:00	2F09	Preparation of temperature-responsive core-shell gel particles using water- soluble block copolymer emulsifier <u>Mitsuhide Sasaoka</u> ,Akifumi Kawamura,Takashi Miyata
11:15	2F10	Synthesis of Cholesteric-Liquid-Crystal Elastomer Microspheres <u>Shodai Hayashi</u> ,Tomoki Shigeyama,Kyohei Hisano,Osamu Tsutsumi
11:30	2F11	Mechano-responsive hydrogels driven by dissociation of host-guest inclusion complex <u>Akihide Sugawara</u> ,Taka-Aki Asoh,Yoshinori Takashima,Akira Harada,Hiroshi Uyama
		Hideyuki Otsuka, presiding
12:30	2F12	Preparation of drug carrier consisting of photosensitizer and thermo- responsive triblock copolymer <u>Kohei Kitano</u> ,Kazuhiko Ishihara,Shin-ichi Yusa
12:45	2F13	Precise Control of Coverage of Polyrotaxane and Mechanical Properteis of Slide-Ring Gels with a Wide Range of Coverage <u>Takako Noritomi</u> ,Lan Jiang,Chang Liu,Koichi Mayumi,Hideaki Yokoyama,Kohzo Ito
13:00	2F14	Thermal responsive and side chain length dependence of liquid crystal polymers using phenyl succinate <u>Ryoma Amanuma</u> ,Ayumi Kobayashi,Kohei Iritani,Takashi Yamashita
13:15	2F15	Design of Tough Hydrogels with Entanglement Cross-links of Polymer Chains and Their Mechanical Properties <u>Chika Hajime</u> ,Yuino Inamoto,Chisa Norioka,Akifumi Kawamura,Takashi Miyata
		Shin-ichi Yusa, presiding
13:30	2F16	Strain-induced crystallization and mechanical properties of slide-ring elastomers <u>Yohei Iwahashi</u> ,Lan Jiang,Chang Liu,Takako Noritomi,Shota Ando,Koichi Mayumi,Hideaki Yokoyama,Kohzo Ito
13:45	2F17	Thermo-responsiveness of Poly(4-vinylphenol) <u>Natsuki Inaba</u> ,Miwa Kubota,Kazuki Sada
14:15	2F19	Thermo-responsiveness of various organic polymers in mixed fluorinated solvents Miwa Kubota,Kenta Kokado, <u>Kazuki Sada</u>
14:30	2F20	Synthesis of anisotropically swellable polymer gels by crystal crosslinking of MOF using p-quinquephenyl ligands Tokiyo Katou,Shizuka Anan,Kenta Kokado, <u>Kazuki Sada</u>
		Masaya Yamamoto, presiding
14:45	2F21	Synthesis of Monodisperse Bio-based Polymer Particles <u>Katsuhiro Onita,</u> Miku Onishi,Taro Omura,Takeshi Wakiya,Toyoko Suzuki,Hideto Minami
15:00	2F22	Synthesis of self-degradable and thermoresponsive hydrogels by radical polymerization <u>Syuuhei Komatsu</u> ,Takuya Sato,Akihiko Kikuchi
15:15	2F23	Application of fluorinated hectorite / hectorite lyotropic liquid crystals to nanocomposite hydrogels <u>Takashi Nakaoji,</u> Masafumi Yamato,Hiroyoshi Kawakami

15:30	2F24	Anisotropic Self-Oscillating Gradient Hydrogel <u>Won Seok Lee</u> ,Takafumi Enomoto,Aya M. Akimoto,Ryo Yoshida
	F	Kazuki Sada, presiding
16:00	2F26	Capsule-shaped Self-Oscillating Hydrogel with Cell-like Surface Fluctuation <u>Won Seok Lee</u> , Takafumi Enomoto, Aya M. Akimoto, Ryo Yoshida
16:15	2F27	Structure-property relationship of hydrogel which surface is grafted with fluorine-containing polymer <u>Taihei Nishimoto</u> ,Takafumi Enomoto,Chia-Hsuan Lin,Jhin-Guang Wu,Gupit Caidric,Xiang Li,Shyh-Chyang Luo,Mizutani Aya Akimoto,Ryo Yoshida
16:30	2F28	LCST-UCST like thermoresponsiveness of sulfabetaine copolymer <u>Nobuyuki Morimoto</u> ,Masaya Yamamoto
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16:45 2F29 Sequence-controlled amino acid-derived vinyl polymers : Effect of hydropathy of amino acids on thermo responsiveness. <u>Atsushi Sawamoto</u>,Nobuyuki Higashi,Tomoyuki Koga

Fri. May 28

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Hiroto Kudo, presiding

10:00	3F05	Synthesis of thermoresponsive microgels based on N-vinylamide <u>Hiroaki Yoshida</u> ,Hiroya Furumai,Hiroharu Ajiro
10:15	3F06	Synthesis and properties of photoluminescent supramolecular gels derived from phenylenediamine hydrochlorides <u>Kazuki Tateishi</u> ,Hiromitsu Sogawa,Fumio Sanda
10:30	3F07	Precise Control of Helical-Axis Orientation in Cholesteric-Liquid-Crystalline elastomers by Photopolymerization <u>Maki Yanagihara</u> ,Kyohei Hisano,Osamu Tsutsumi
10:45	3F08	Double Networks: From Molecular-scale to Macro-scale <u>Daniel King</u> ,Tsuyoshi Okumura,Riku Takahashi,Jian Ping Gong
	Т	akeshi Serizawa, presiding
11:00	3F09	Polymer complex formation of water-soluble cellulose derivative and polyanion <u>Yuki Shioji</u> ,Taka-Aki Asoh,Hiroshi Uyama
11:15	3F10	Multi-Dimensional Orientation Control of Cholesteric Liquid Crystal Polymers with Mechano-Optical Properties <u>Kyohei Hisano</u> ,Tomoki Shigeyama,Maki Yanagihara,Osamu Tsutsumi
11:30	3F11	Development of self-healing gels prepared by complex formation between counter ion of polyanion and sugar <u>Suzune Miki</u> ,Taka-Aki Asoh,Hiroshi Uyama
	H	liroaki Yoshida, presiding
12:30	3F12	Novel elastomer actuators driven at lower temperatures <u>Naoto Yamaguchi</u> ,Yingjun An,Hidenori Okuzaki
12:45	3F13	Fabrication of conductive hydrogel wrinkles by adhesion of conductive film and hydrogel <u>Koki Tsujita</u> ,Taka-Aki Asoh,Hiroshi Uyama
13:00	3F14	Thermosetting reaction of tannic acid-based epoxy resin and properties of the obtained cured materials <u>Huayi Jin</u> ,Hiroto Kudo
13:15	3F15	Modification of serum albumin to polymer-coated single-walled carbon nanotubes and evaluation of their dispersibility. <u>Kenta Nakamura</u> ,Isabella Widjaja,Yukiko Nagai,Tsuyohiko Fujigaya
	F	'umio Sanda, presiding
13:30	3F16	Functional Ion Gels Based on Ultra-High Molecular Weight Polymers <u>Yuji Kamiyama</u> ,Ryota Tamate,Takeshi Ueki

13:45	3F17	A Mechanically Adaptive Hydrogel Consisting of Inorganic Nanosheets and Water <u>Koki Sano</u> ,Yasuo Ebina,Takayoshi Sasaki,Yasuhiro Ishida
14:00	3F18	Bottom-up Preparation and Mechanical Properties of Cellulose Hydrogels Inspired by Plant Cell Walls <u>Yuta Sakurai</u> ,Toshiki Sawada,Takeshi Serizawa

Room G

Wed. May 26

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Norihisa Tanio, presiding

10:00	1G05	Application of chain curing agents generating strong organic bases to anionic
		UV curing
		Yoshiki Kojima Koji Arimitsu

- 10:15 1G06 Photo-conversion of epoxy resin films from isotropic phase to liquid crystal phase by photoinduced cationic polymerization <u>Kohei Itaoka</u>,Koji Arimitsu,Takahiro Seki
- 10:30 1G07 Photosensitivity characteristics of the photosensitive polyimide consisting of a photobase generator and polyhydroxyimide bearing base-reactive protecting groups <u>Yuta Fujie</u>,Daiki Yukimori,Mei Kunito,Nobuhiro Ishikawa,Toshiyuki Ogata,Koji Arimitsu
- 10:45 1G08 Correlation analysis of high pressure induced changes in aggregated states and optical properties of a phosphorescent bromine-containing polyimide. <u>Ryuichi Isoda</u>,Koichiro Muto,Marina Doi,Ryohei Ishige,Shinji Ando

Kazuki Nakamura, presiding

- 11:00 1G09 Analysis of Variations in Photophysical Processes of Fluorescent Polyimides having Terminal Groups with Different Emission Wavelengths under High Pressure Koichiro Muto,Eisuke Fujiwara,Ryohei Ishige,Shinji Ando
- 11:15 1G10 Control of refractive index and dispersion of transparent polymer and prediction from chemical structure Daiki Anbe,Keito Kikuchi,Norihisa Tanio
- 11:30 1G11 Heterogeneous structural analysis and transparency evaluation of transparent polymers for optical communication <u>Daiki Tenma</u>, Takahiro Hiraide, Norihisa Tanio
- 12:30 1G12 Verification of heavy atomic effects and control of molecular motion in the fluorescence and phosphorescence properties of sulfur-containing polyimides <u>Hiroka Yamamatsu</u>, Atsuko Tabuchi, Naiqiang Liang, Ryohei Ishige, Shinji Ando

Koji Arimitsu, presiding

- 12:45 1G13 Delayed Luminescence Properties of Imide Compounds having Naphthalene and Biphenyl Core Structures. <u>Marina Doi</u>,Koichiro Muto,Mayuko Nara,Naiqiang Liang,Ryohei Ishige,Shinji Ando,Hiroaki Mori
- 13:00 1G14 A novel Imide Compound Exhibiting Multicolor Fluorescence in the Entire Visible Region via Proton Transfer in the Ground and Excited States <u>Atsuko Tabuchi</u>,Ryohei Ishige,Teruaki Hayakawa,Shinji Ando
- 13:15 1G15 Design of Random Depolarization Film Doped with Crystal Microparticles for Real-Color Displays Shizuki Sasaki,Mariko Udono,Yasuhiro Koike
- 13:30 1G16 Luminescence behavior of iridium complex hybridized in siloxane polymer <u>Yuki Kuroda</u>,Masashi Nakamura,Koji Mitamura,Mitsuru Watanabe,Masahiro Muraoka,Araki Masuyama,Seiji Watase

Shinji Ando, presiding

- 13:45 1G17 Effect of addition of alkylammoniun ion on luminescent property of hybrid material of hydrophobized DNA / chiral Eu(III) complex. <u>Ren Kaneko</u>,Haruki Minami,Kazuki Nakamura,Norihisa Kobayashi
 14:15 1C10 Suptracing of phanel regins by condensation reaction of 2.6 dimethylphonel
- 14:15 1G19 Synthesis of phenol resins by condensation reaction of 2,6-dimethylphenol with Dialdehydes and their application to extreme ultraviolet (EUV) molecular resist
 - <u>Yutaro Iwashige</u>,Hiroto Kudo
- 14:30 1G20 Photoisomerization and phase change characteristics of arylazopyrazole derivatives <u>Yuka Masunaga</u>,Yuki Nagai,Shinya Uchino,Masa-aki Morikawa,Nobuo Kimizuka
- 14:45 1G21 3-dimensional control of molecular alignment in Monodispersed Cholesteric-Liquid-Crystalline Microparticles Tomoki Shigeyama,Kyohei Hisano,Osamu Tsutsumi

Takuya Nakashima, presiding

- 15:00 1G22 Enhanced Photothermal Conversion Properties of Liquid Crystalline Squaraine Dyes
 - Takeshi Maeda, Masashi Takano, Shigeyuki Yagi, Kento Okoshi
- 15:15 1G23 Controlled Molecular Alignment in Chiral-Liquid-Crystals Polymers by Light Intensity Gradient Yuki Shikata,Kyohei Hisano,Osamu Tsutsumi
- 15:30 1G24 Near infrared photoluminescence properties of locally functionalized singlewalled carbon nanotubes synthesized by a cycloaddition reaction <u>Keita Hayashi</u>,Yoshiaki Niidome,Tsuyohiko Fujigaya,Tomohiro Shiraki
- 16:00 1G26 Near infrared photoluminescence properties of chemically functionalized single-walled carbon nanotubes using bis-aryldiazonium salts with different linker structures Haruka Aoki,Boda Yu,Tsuyohiko Fujigaya,Tomohiro Shiraki
- 16:15 1G27 Stabilization of perovskite nanocrystals thin film by novel cross-linkable ligands <u>Taisei Kimura</u>,Naoaki Oshita,Ryohei Yamakado,Takayuki Chiba,Satoshi Asakura,Akito Masuhara

Thu. May 27

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Masayuki Wakioka, presiding

- 10:15 2G06 Fabrication of Aligned Films of Polymer Semiconductors Using High-Temperature LB Method and Their Conduction Properties at High Carrier Density Masato Ito, Yu Yamashita, Taizo Mori, Shun Watanabe, Jun Takeya, Katsuhiko Ariga Effect of 4'4-BPS on PEDOT:PSS/polyester composites 10:30 2G07 Kazui Sasaki, Hiroaki Tanahashi, Taiki Hashimoto, Seira Morimune-Moriya, Shigeji Konagaya Synthesis and properties of a polythiophene with octyloxy group in the side 10:45 2G08 chain Miki Morimoto, Keiichi Imato, Yousuke Ooyama, Ichiro Imae Ichiro Imae, presiding Preparation of polymer film by electrochemical polymerization in liquid crystal 2G09 11:00 with biologically active substance as a chiral inducer and evaluation of optical and magnetic properties Kyoka Komaba, Reiji Kumai, Hiromasa Goto Cis-to-trans isomerization of poly(thienylenevinylene)s: a thin film preparation 2G10 11:15
 - method allowing the use of green solvents <u>Masayuki Wakioka</u>,Natsumi Yamshita,Fumiyuki Ozawa

Hideto Minami, presiding

12:30	2G12	Development of colorless and transparent polyimides for OLED materials <u>Kei Fukasawa</u> ,Takashi Kino,Ayumi Kobayashi,Kohei Iritani,Takashi Yamashita
12:45	2G13	Segregated structure and low thermal expansion behavior of multiblock copolymer consisting of aromatic polyimide and poly(dimethyl siloxane) <u>Ryohei Ishige</u> ,Shohei Hara,Shiniji Ando,Naoki Matsuda,Tomoya Higashihara,Mitsuru Ueda,Yooichiroh Maruyama,Shintarou Fujitomi
13:00	2G14	Toughening of reversibly crosslinked polymer by controlled arrangement of hydrogen bonds <u>Shogo Ishizaka</u> ,Shintaro Nakagawa,Naoko Yoshie
	S	hintaro Nakagawa, presiding
13:15	2G15	Mechanical properties of latex film prepared from rotaxane-crosslinked elastomer microspheres <u>Yuma Sasaki</u> ,Seina Hiroshige,Kazuya Uenishi,Kazuko Nakazono,Toshikazu Takata,Daisuke Suzuki
13:30	2G16	High-Speed Deformation Properties of Poly(butylene terephthalate)/Polyrotaxane Alloys Fabricated by Octa-Screw Melt-Kneading Method <u>Akira Ishigami</u> ,Shota Mikoshiba,Takashi Kurose,Hiroshi Ito
13:45	2G17	Preparation of hollow fluoropolymer particles <u>Koki Shimogomi</u> ,Yuya Takeuchi,Ken Mukai,Yosito Tanaka,Mayumi Shimano,Toyoko Suzuki,Hideto Minami
	G	aku Fukuhara, presiding
14:15	2G19	Polymer Separation by Topological Entrapment in Metal-Organic Frameworks <u>Nagi Mizutani</u> ,Nobuhiko Hosono,Takashi Uemura
14:30	2G20	Metal-Organic Frameworks for Practical Separation of Cyclic and Linear Polymers <u>Taku Sawayama</u> ,Nobuhiko Hosono,Takashi Uemura
14:45	2G21	pH-sensing epoxy resin provided with novel inclusion type monomer derived from β -cyclodextrin Syota Nagai, <u>Reiko Saito</u>
15:00	2G22	Selective Ion Permeation of pH-Responsive Ultrathin Nanoporous SiO ₂ Films <u>Yuya Ishizaki</u> ,Shunsuke Yamamoto,Tokuji Miyashita,Masaya Mitsuishi
15:15	2G23	Preparation and properties of cage siloxane-containing polysilsesquioxane reverse osmosis membrane <u>Kazuki Yamamoto</u> ,Yunosuke Amaike,Yoshiro Kaneko,Takahiro Gunji
	R	eiko Saito, presiding
15:30	2G24	Synthesis and permeation of hyperbranch or networked polymer membranes connecting by hydrogen, ionic, or covalent bonds from three functional monomers having six hydroxyl groups synthesized by selective decomposition of substituted acetylene polymers <u>Riku Asai</u> ,Chenxi Xu,Syunya Narita,Masahiro Teraguchi,Takashi Kaneko,Toshiki Aoki
16:00	2G26	Synthesis and gas permeation of membranes containing two dimensional polymers by polycondensation between side groups at solid-solid interfaces in serial membranes of two different polymers followed by highly selective photocyclic aromatization <u>Kehan Cheng</u> , Yanqing Qu, Masahiro Teraguchi, Takashi Kaneko, Toshiki Aoki
16:15	2G27	Synthesis of two dimensional polymers by polycondensation between the side groups and decomposition of main chains of acetylene polymer membranes and their performances <u>Jia Shi</u> ,Shohei Takeda,Yuuka Kimura,Masahiro Teraguchi,Takashi Kaneko,Toshiki Aoki
16:30	2G28	Synthesis, reaction, and gas permeation of fully-conjugated diethynylene/ diphenylene/ phenyleneethynylene condensation polymers bearing functional groups in the terminal and side groups <u>Keisuke Ookawa</u> ,Masahiro Teraguchi,Takashi Kaneko,Toshiki Aoki

16:45 2G29 Synthesis, reaction, and gas permeation of phenyleneethynylene condensation polymers bearing functional groups in the main chain and side groups hajime Takahashi, Masahiro Teraguchi, Takashi Kaneko, Toshiki Aoki

Fri. May 28

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Toshiki Aoki, presiding

		· · · · · · · · · · · · · · · · · · ·
10:00	3G05	Gas transport properties of thermally rearranged fluorine-contained polybenzoxazole - silica hybrid membranes <u>Tomoyuki Suzuki</u>
10:15	3G06	Fabrication and gas permeation property of novel MMM including surface- modified silica nanoparticles and nanofiber framework <u>Takumu Morita</u> ,Ayano Imai,Masafumi Yamato,Hiroyoshi Kawakami
10:30	3G07	Synthesis of highly gas-permeable poly(diphenylacetylene)s having methyl and trimethylsilyl groups <u>Toshikazu Sakaguchi,</u> Katsuya Kuratani,Tamotsu Hashimoto
10:45	3G08	Development of cellulose acetate modified by ferulic acid for CO2 separation <u>Shinji Kanehashi</u> ,Yuki Yanase,Kei Machigashira,Kenji Ogino,Junichi Kamagata,Hitoshi Aoki
		Tomoyuki Ikai, presiding
11:00	3G09	Catalytic bio-supramolecular photochirogenesis: Hetero- photocyclodimerization of anthracene derivatives mediated by human serum albumin <u>Masaki NISHIJIMA,</u> Misaki KAWAI,Sota TOYOOKA,Yuya FUJISHIRO,Yasuyuki ARAKI,Tadashi MORI,Yoshihisa INOUE,Takehiko WADA
11:15	3G10	Color and structural change of poly(phenylacetylene) occurred by sulfonamide- anion interaction <u>Keisuke Ogata</u> ,Satoshi Umeda,Katsuyuki Tsuda,Toshifumi Satoh,Toyoji Kakuchi,Ryosuke Sakai
11:30	3G11	Optical Properties of Fluorescence Polymers in Glucans <u>Kotoe Nakasha</u> ,Gaku Fukuhara
		Nobuhiko Hosono, presiding
12:30	3G12	Simultaneous Synthesis of Circularly Polarized Luminescent Multiple Helicenes Using a Chrysene Framework <u>Shoya Yamakawa</u> ,Tomoyuki Ikai,Nozomu Suzuki,Eiji Yashima
12:45	3G13	Synthesis of Double-Stranded Titanium(IV) Helicates Composed of Oligophenol Units and Its Three-State Structural Conversion <u>Masaki Ito</u> ,Manabu Itakura,Daisuke Taura,Naoki Ousaka,Tomoyuki Ikai,Eiji Yashima
13:00	3G14	Asymmetric C-H Insertion Reactions Catalyzed by Di-rhodium Complexes Coordinated with Helical Poly(diphenylacetylene) Derivatives <u>Shota SONA</u> ,Daisuke HIROSE,Hidetaka ISHIBASHI,Tsuyoshi TANIGUCHI,Tatsuya NISHIMURA,Katsuhiro MAEDA
13:15	3G15	Synthesis and properties of Botryosin by polycondensation reaction of p-t- Butylcalix[8]arene with dialkylhalide compounds <u>Hiroyuki Maekawa</u> ,Hiroto Kudo
13:30	3G16	Preparation of perfluorosulfonated ionomer nanofibers by solution blow spinning Masahiro Shinakawa,Minoru Ashizawa,Kazunori Motai,Yuhei Hayamizu, <u>Hidetoshi Matsumoto</u>
		Tatsuya Nishimura, presiding
13:45	3G17	Structure and functional properties of Pd complexed cyclic poly(oxazoline)s. <u>Ryo Itoga</u> ,Wen-Li Wang,Ren-Hua Jin

14:15	3G19	Catalytic Functions Based on Side-Chain Cooperation of Vinyl Boronic Acid Pinacol Ester-Maleic Anhydride Copolymer <u>Hiroshi Makino</u> ,Tsuyoshi Nishikawa,Makoto Ouchi
14:30	3G20	Development of Asymmetric Diels-Alder Reaction by Polymer-immobilized MacMillan Catalyst in continuous flow system <u>Joh Yamada</u> ,Naoki Haraguchi
14:45	3G21	Synthesis of ionically polymer-supported N-heterocyclic carbene catalysts and their application to asymmetric reaction <u>Noriyuki Tatsumi</u> ,Naoki Haraguchi
15:00	3G22	Novel Design Strategy of DNA-Artificial Nucleic Acid Chimera Toward Enhancement of Cleavage Activities Akira Yano,Masahito Inagaki,seiya Ishizawa,Masaki Nishjijima,Tsuyoshi Yamamoto,Yasuyuki Araki,Asako Yamayoshi, <u>Takehiko Wada</u>

Room H

Wed. May 26

		C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS
		Yasuhiro Matsuda, presiding
10:00	1H05	Threading ultra-long polymer into MOF: Synthesis and physical properties <u>Tomoya Iizuka</u> ,Etsuhiro Miwa,Nobuhiko Hosono,Takashi Uemura
10:15	1H06	Preparation and Industrial Characterization of Hydrophilic Surfaces with Metal Oxide Nanoparticles/Polymer Composites <u>Yuki Hanzawa</u> ,Akira Ishigami,Hisaaki Koseko,Takashi Kurose,Hiroshi Ito
10:30	1H07	Near-infrared wavelength selective response actuators consisting of interpenetrating polymer network gels <u>Satoshi Watanabe</u> ,Kazuki Arikawa,Masashi Kunitake
		Izumi Ichinose, presiding
10:45	1H08	Controllable Ag Nanoparticles Adsorption using Polycyclosiloxane with Varying Catechol Substitution Ratios <u>Soyeon Kim</u> ,Huie Zhu,Masaya Mitsuishi
11:00	1H09	3D Interconnect Formation Using Block Copolymers with PMMA-Modified Au Nanoparticles <u>Takafumi Fukushima</u>
11:15	1H10	Structure and properties of single-walled carbon nanotube nanofillar/polymer composite film Ryusei Takatani, <u>Tetsuya Uchida</u>
11:30	1H11	Fabrication of boron carbide fibers starting from poly(vinyl alcohol) <u>Rei Hondo</u> ,Yusuke Yoda,Masaki Kakiage,Hiroki Uehara,Takeshi Yamanobe
		Makoto Takafuji, presiding
12:30	1H12	Structural control of multi-layered nanocomposite microgels <u>Satoki Ushida</u> ,Takumi Watanabe,Haruka Minato,Daisuke Suzuki
12:45	1H13	Silica Hybrids Templated by Complexes of Polyethyleneimine with Achiral / Chiral acids <u>Shunya Motegi</u> ,Ren-Hua Jin
13:00	1H14	Self-assembling crosslinking of metal-coordinated hydrophilic polymers and metal ions to synthsize different gel shapes <u>Naoki Isobe</u> ,Tatushi Inoue,Takeshi Yamanobe,Daisuke Nagai
		Yohei Miwa, presiding

13:15 1H15 Creation of recyclable acrylic composites utilizing trans-N-alkylation bond exchange Takahiro Kimura, Mikihiro Hayashi, Akinori Takasu

13:30	1H16	Improvement of mechanical properties of poly(lactic acid) by dynamic crosslinking with Eucommia elastomer <u>Yuji Kiba</u> ,Yu-I Hsu,Taka-Aki Asoh,Kinkou Sho,Hiroshi Uyama
13:45	1H17	Grafting of oligoether on citric acid modified cellulose surface and application for reinforcement of polyurethane composite <u>Takeshi Hiraoka</u> ,Xinnan Cui,Yu-I Hsu,Taka-Aki Asoh,Hiroshi Uyama
14:15	1H19	Development of Polymer Electrolyte Membrane Filled with Functionalized Cellulose Nanocrystals for PEFC <u>Tomohiro Nohara</u> ,Keisuke Tabata,Toshihiko Arita,Akito Masuhara
	N	Iasaya Mitsuishi, presiding
14:30	1H20	UV-Resistant Trifluoropropyl-Substituted Open-Cage Silsesquioxane-Pendant Polysiloxanes Lina Li,Hiroaki Imoto, <u>Kensuke Naka</u>
14:45	1H21	Development of self-healing materials using metal coordination between zinc and azole-containing silsesquioxane nanoparticles <u>Takuto OHASHI</u> ,Yusuke SASAKI,Hideharu MORI
15:00	1H22	Silsesquioxane/Triazine Hybrid Insulating Materials <u>Sakino Takase</u> ,Takashi Hamada,Kenta Okada,Susumu Mineoi,Joji Ohshita
15:15	1H23	Preparation of organic-inorganic composite films having gradient structure by UV curing <u>Yoshiki Shirai,</u> Ayano Sasaki,Koji Arimitsu
15:30	1H24	Organic-silica nano composites synthesized by immersion method with poly(styrene-block-4-vinyl pyridine) <u>Shinya Watanabe</u> ,Reiko Saito
	1	atsuo Kaneko, presiding

16:00 1H26ILY Novel Technique for Utilization of lignin as functional polymeric materials Kazuhiro Shikinaka

Thu. May 27

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Atsushi Hozumi, presiding

10:00	2H05	Molding of micro-structure on poly(vinyl acetate) membrane surface and change in wettability by membrane expansion <u>Tatsuya Takeshima</u> ,Junji Watanabe
10:15	2H06	Change in surface wettability on blend membrane composed of hydrophilic and hydrophobic polymers. <u>Honoka Iwami</u> ,Junji Watanabe
10:30	2H07	Hydrophobic surfaces utilizing particle shape <u>Shunji Kimura</u> ,Daiki Tsujita,Yuya Takeuchi,Yoshito Tanaka,Mayumi Shimano,Toyoko Suzuki,Hideto Minami
10:45	2H08	Improvement of hard-coating solutions to enhance weatherability and reduce environmental load <u>Yasuhiro Matsuda</u> ,Hikaru Kawai,Hideyo Ando,Shigeru Tasaka
	Та	kahiro Seki, presiding
11:00	2H09	Characterization of Various Hydrophobic Polymer Brushes Synthesized by "Paint-on" SI-ATRP <u>Tomoya Sato</u> ,Satoshi Nakamura,Chihiro Urata,Atsushi Hozumi
11:15	2H10	Voltage Driven Characteristic Dynamics of Directed Self-Assembled Nematic Liquid Crystal on Chemically Patterned Polymer Brush <u>Takuya Yanagimachi, Xiao Li, Paul Nealey, Kazue Kurihara</u>
11:30	2H11	The analysis of the thickness and the electrokinetic phenomenon of the cationic polymer brush modified surfaces <u>Yoichi Watanabe</u> ,Tsukuru Masuda,Madoka Takai

Naoko Yoshie, presiding

- 12:30 2H12 Synthesis of decrosslinkable epoxy cured materials using thermal dissociation of anthracenecarboxylic acid dimer: Improvement of the dissociation temperature and application to dismantlable adhesives <u>Kinuka Tano</u>,Eriko Sato
- 12:45 2H13 A photocurable adhesive for Nafion films in a polymer electric fuel cell <u>Makoto Kadoyashiki</u>,Koji Arimitsu
- 13:00 2H14 Design of Diamine Polymer Coatings: CO2 Capture and Wettability Control <u>Takeo Suga</u>, Daichi Nakamura, Kenya Katayama, Kenichi Oyaizu

Madoka Takai, presiding

- 13:15 2H15 Cephalopoda inspired self-healing films and applications thereof <u>Kengo Manabe</u>,Emiko Koyama,Yasuo Norikane
- 13:30 2H16 Antibacterial Activity of Surface-aminated Cellulose Oligomer Assemblies Saeko Yamaguchi, Toshiki Sawada, Hiroshi Tanaka, Takeshi Serizawa
- 13:45 2H17 Function of the Bioinert Interface with Thinner Swollen Layer Shoichiro Asayama, Yuya Sone

Kazuhiko Ishihara, presiding

- 14:15 2H19 Investigation of repulsive hydration layer on biocompatible polymer/water interface by Frequency Modulation Atomic Force Microscopy. Daiki Murakami,Shinnosuke Nishimura,Yukiko Tanaka,Masaru Tanaka
- 14:30 2H20 Control of cellular behaviors on a poly(2-hydroxyethyl methacrylate) film prepared on a silica nanoparticles-patterned substrate Kento Kawabata,Masayasu Totani,Hisao Matsuno,Keiji Tanaka
- 14:45 2H21 Aggregation states and bioinert properties of polyoxazoline derivatives at the water interfaces <u>Hisao Matsuno</u>, Jinhyeok Hong, Masayasu Totani, Daisuke Kawaguchi, Norifumi Yamada, Keiji Tanaka
- 15:00 2H22 Improvement lubricity and antifouling property of surfaces modified with photo-reactive zwitterionic polymers <u>Yasuhiko Iwasaki</u>,Hiroki Nakano,Sachiro Kakinoki

Shin Horiuchi, presiding

15:15 2H23ILY Photoresponsive reversible adhesives using solid-liquid phase transition behavior of azobenzene-containing polymers <u>Shotaro Ito</u>

Fri. May 28

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Makoto Takafuji, presiding

- 10:00 3H05ILY Template-directed polymerization of acyclic artificial nucleic acid for sequence replication <u>Keiji Murayama</u>
 10:30 3H07 Synthetic Membrane-Deforming Molecules: Membrane Deformation Induced by Adhesion onto Phospholipid Bilayer Noriyuki Uchida, Anju Kawakita, Takahiro Muraoka
- 10:45 3H08 Synthetic Membrane-Deforming Molecules: Endocytosis-like Vesicle Fission Induced by a Photoreactive Molecular Machine <u>Noriyuki Uchida</u>,Yunosuke Ryu,Takahiro Muraoka

Takahiro Muraoka, presiding

11:003H09Development of elecromagnetic field-induced method for preparation of cell-
derived nanovesicles

Tomoya Yagita,Shinichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi

11:15	3H10	Thermoresponsive polypeptoid-oligosaccharide block polymer : Formation of polymer vesicle and its membrane permeability <u>Yota Okuno</u> ,Tomoki Nishimura,Yoshihiro Sasaki,Kazunari Akiyoshi
11:30	3H11	Synthesis of self-assembling oligopeptide-PEG multiblock polymers and their film properties <u>Ryosuke Oka</u> ,Nobuyuki Higashi,Tomoyuki Koga
12:30	3H12	Preparation of nanoparticles functionalized with L- and D-amino acid-derived vinyl polymers and their properties. <u>Naoaki Nishida</u> ,Nobuyuki Higashi,Tomoyuki Koga
	Т	eruyuki Komatsu, presiding
12:45	3H13	Application of Silver Nanowire/PVA transparent electrode into the semi- transparent organic solar cells Hiroto Ishida <u>,Atsushi Aoki</u>
13:00	3H14	Photophysical properties of up-conversion in dye-encapsulated polymeric micelles <u>Hideki Kawai</u> ,Yuki Wakebe
13:15	3H15	Construction and piezoelectric properties of single peptide nanotubes having
		helical peptide <u>Taichi Kurita</u> ,Tomoaki Terabayashi,Keiji Numata,Shunsaku Kimura,Hirotaka Uji
13:30	3H16	Mechanism of the Formation of Pseudo-polyrotaxane Nanosheet <u>Shuntaro Uenuma</u> ,Hideaki Yokoyama,Kohzo Ito
	K	ousuke Tsuchiya, presiding
13:45	3H17	Thermal structural transition of pseudo-polyrotaxane nanosheet <u>Naoki Ando</u> ,Shuntaro Uenuma,Hideaki Yokoyama,Kohzo Ito
14:15	3H19	Cross-linked poly(vinyl alcohol) films having nano-structures <u>Yohei Kotsuchibashi</u>
14:30	3H20	Au nanoparticle-coated catalase microtube motor having controllable velocity by light irradiation <u>Ryo Kato</u> ,Tomonao Sugawara,Yoshitsugu Morita,Teruyuki Komatsu
14:45	3H21	Preparation of cellulose nanocrystal-based core-shell particles with tunable location of components Emiko Mouri,Jie Zhang,Hinako Furushima,Teruyuki Nakato
	т	omoyuki Koga, presiding
15:00	3H22	Preparation of novel spherical π -conjugated polymer particles having various
15.00	31122	surface functionality <u>Mai Fukunaga</u> ,Nanami Hano,Hirotaka Ihara,Makoto Takafuji
15:15	3H23	Changes in physicochemical properties for supramolecular nano-assemblies of cationic glutamide derivatives by electron-donating and electron-accepting <u>Mio Ito</u> ,Yutaka Kuwahara,Tatsumi Iwamoto,Naoya Ryu,Makoto Takafuji,Hirotaka Ihara
15:30	3H24	Selective capturing ability of the dimple space on the surface of polymer
		microsphere <u>Nanami Hano</u> ,Shizuka Kanawa,Naoya Ryu,Reiko Oda,Hirotaka Ihara,Makoto Takafuji
15:45	3H25	Synthesis and Thin Film Structural Control of Chemically Tailored PS-b-PMMA Derivatives <u>Shinsuke Maekawa</u> ,Lei Dong,Takahiro Dazai,Ken Miyagi,Takayoshi Mori,Kazufumi Sato,Yuta Nabae,Teruaki Hayakawa

Room J

Wed. May 26

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS

Taichi Ikeda, presiding

- 10:00 1J05 Conduction process of lithium-ion conducting polymer electrolytes composited with electron-donor/-acceptor molecules Kan Hatakeyama,Momoka Umeki,Hiroki Adachi,Kenichi Oyaizu
- 10:15 1J06 Effect of cyano side chain on the ion transport properties in polyether-based electrolytes: comparison of ether and cyano side chains <u>Shintaro Saku</u>,Kousuke Matsuo,Koki Yamada,Ryansu Sai,Yu Katayama,Hiromori Tsutsumi
- 10:30 1J07 TetraPEG-based Solid Electrolytes with a Homogeneous Polymer Network for Li-ion Batteries Namie Ikeda,Kenta Fujii
- 10:45 1J08 Fundamental properties and battery application of tetra-PEG gel containing carbonate-based highly concentrated electrolytes <u>Ryotaro Ishikawa</u>,Kei Hashimoto,Yosuke Ugata,Kazuhide Ueno,Masayoshi Watanabe,Kaoru Dokko

Kenichi Oyaizu, presiding

- 11:00 1J09 Ion transport and electrochemical properties of weakly coordinating polyanion solutions <u>Yusuke Sakashita, Xiaoxiao Yang, Kaoru Dokko, Masayoshi Watanabe, Kazuhide</u>
- 11:15 1J10 Development of poly(ionic liquid)s with branched side chains: Polymer design for breaking conventional record of ionic conductivity <u>Taichi Ikeda</u>
- 11:301J11Thermoelectric properties of PEDOT:PSS doped with ionic liquid
Hiroki Uehara,Keiichi Imato,Yousuke Ooyama,Ichiro Imae

Jun Matsui, presiding

Ueno

- 12:30 1J12 Development of carbon nanotube-based non-precious metal (Fe/Ni/S-based) catalysts with high ORR/OER performance and their applications Pandian Ganesan,Aleksandar Staykov,Hiroaki Shu,Mitsugu Uejima,<u>Naotoshi</u> <u>Nakashima</u>
- 12:45 1J13 Synthesis, structure and properties of partially-fluorinated anion-conductive terpolymer membranes Yoshihiro Ozawa,Junpei Miyake,Kenji Miyatake
- 13:00 1J14 Time-of-flight small-angle neutron scattering observing polymer electrolyte fuel cell under operation Satoshi Koizumi,Tohei Noda,Tomoki Maeda,Takumi Inada
- 13:15 1J15 Synthesis and properties of sulfonated aromatic terpolymers containing perfluoroalkylene groups in the main chains <u>Ren Kumao</u>,Junpei Miyake,Kenji Miyatake

Kenji Miyatake, presiding

- 13:30 1J16 Structural analysis at high proton transport channels formed at the interlayer of polymer nanosheet multilayer film <u>Minami Inoue</u>,Miaomiao Liu,Yuki Nagao,Makoto Gemmei,Tokuji Miyashita,Masaya Mitsuishi,Jun Matsui
- 13:45 1J17 Nanoscale Electron-transport Property in Conjugated-polymer Acceptor Films Studied by Conductive AFM <u>Toshiki Kawanishi</u>,Hidayat Anjar Taufik,Pandey Manish,Masakazu Nakamura,Hiroaki Benten
- 14:15 1J19 Machine learning of the power conversion efficiencies of non-fullerene organic solar cells Yuta Yoshimoto,Chihiro Kamijima,Shu Takagi,Ikuya Kinefuchi

14:30 1J20 Construction of Photochemical Reaction Systems Utilizing Functionalized Shell Site of Core-Crosslinked Polymer Micelle <u>Takafumi Enomoto</u>,Aya M. Akimoto,Ryo Yoshida

F. INDUSTRIAL POLYMERS AND TECHNOLOGY

Akira Ishigami, presiding

- 14:451J21Kinetic analysis of thermal and oxidative decomposition in polypropylene.Tomohiro Ohkawa
- 15:00 1J22 Study of imprinting femtoliter-scale isolated liquid droplets into nano-gaps between superstrate and substrate surfaces Takeru Yoshida,Akiko Onuma,Shunya Ito,Masaru Nakagawa
- 15:15 1J23 Development and characterization of proton conductive materials composed of poly(vinylphosphonic acid)/imidazole coated silica filler by RAFT polymerization with particles method <u>Keisuke Tabata</u>,Haruki Nakazaki,Tomohiro Nohara,Toshihiko Arita,Akito Masuhara
- 15:30 1J24 Evaluation of adhesive properties using dielectric relaxation measurements Yuki Kawata

Masaru Nakagawa, presiding

- 16:00 1J26 Improvement of adhesion strength between alumina and epoxy resin using atmospheric pressure plasma CVD <u>Kenichi Yamazaki</u>,Hiroyuki Yasui,Hinako Suematsu,Tsuyoshi Noguchi,Yuma Suenaga,Akitoshi Okino
- 16:15 1J27 Design for improving the adhesion of DNA materials by use of molecular simulation and materials informatics Tomio Iwasaki
- 16:30 1J28 Inhibition of nano-cellulose aggregation using fatty acid salts and its applications Tessei Kawano,Yoshito Andou
- 16:45 1J29 Evaluation of higher-order structure and mechanical properties of cellulose nanofibers reinforced biodegradable polymer composites. <u>Tsubasa Ueda</u>,Akira Ishigami,Takashi Kurose,Hiroshi Ito

Thu. May 27

AWARD LECTURES

Masato Ikeda, presiding

12:30 2J12AL Mechanical properties of doubly crosslinked gels <u>Takuya Katashima</u>

Keiji Numata, presiding

13:00 2J14AL Phase Separation during Bulk Polymerization of Methyl Methacrylate <u>Yasuhito Suzuki</u>

Takuma Yasuda, presiding

13:30 2J16AL Polysaccharide-based wrinkled surfaces induced by polyion complex skin layers upon drying Hironori Izawa

Makoto Ouchi, presiding

14:15 2J19AL Viscoelastic Relaxation Attributed to the Molecular Dynamics of Polyrotaxane Confined in an Epoxy Resin Network <u>Akihiro Hanafusa</u>,Shota Ando,Satoru Ozawa,Masakazu Ito,Ryuichi Hasegawa,Koichi Mayumi,Kohzo Ito

Masato Ikeda, presiding

14:45 2J21AL Cyclic Tau-derived Peptides for Stabilization of Microtubules <u>Hiroshi Inaba</u>

Takuma Yasuda, presiding

Thermally Conductive Molecular Assembly Composed of an Oligo(ethylene glycol)-modified Filamentous Virus with Improved Solubility and Resistance to Organic Solvents 15:15 2J23AL <u>Toshiki Sawada</u>

	Room K		
Wed			
wed. I	May 26		
		POLYMERS AND BIORELATED POLYMERS "English Session"	
10.00		lidenori Yokoi, presiding	
10:00	1K05ILI	Tough Structural Materials from Natural Silks <u>Juan Guan</u> ,Kang Yang,Robert Ritchie	
10:30	1K07	Development of all peptide-based PICsome and application to an enzyme delivery carrier <u>Seiya Fujita</u> ,Kousuke Tsuchiya,Keiji Numata	
	Α	tsushi Maruyama, presiding	
10.45			
10:45	1K08	Evaluation of origin of driving force for loop formation in a chromatin fiber <u>Hiroshi Yokota</u> ,Masashi Tachikawa	
11:00	1K09	Synthesis and evaluation of polyadenine/polysaccharide complex adjuvant <u>Mari Takahara</u> ,Shinichi Mochizuki,Kazuo Sakurai	
	Н	liroshi Yokota, presiding	
11:15	1K10	Polymer having complexes with different metal species in sidechains as DNA binding macromolecules; Investigation on metal species-dependent function for regulating the gene expression <u>Shigehito Osawa</u> ,Remi Watanabe,Hidenori Otsuka	
11:30	1K11	Enhancement of nucleic acid enzyme activity by cationic copolymer for simple RNA detection method <u>Naoki Yoshida</u> ,Orakan Hanpanich,Naohiko Shimada,Atsushi Maruyama	
	S	hoichiro Asayama, presiding	
12:30	1K12ILI	Design of amino acid self-assembling polymeric nano-drugs for therapeutic applications <u>Binh Long Vong</u> ,Yukio Nagasaki	
	Y	ukio Nagasaki, presiding	
13:00	1K14	Characterization of cyclodextrin-based nanoparticles and the effect of their characteristics on the drug retention <u>Jun Katsuki</u> ,Van Doan,Shota Fujii,Kazuo Sakurai	
13:15	1K15	Bioactivities of cyclodextrin-based nanoparticles containing alpha mangostin <u>Van Doan</u> ,Jun Katsuki,Shota Fujii,Kazuo Sakurai	
	Μ	litsuhiro Ebara, presiding	
13:30	1K16	Does scavenging reactive oxygen species in the tumor environment diminish the effect of radiotherapy? <u>Yukio Nagasaki,</u> Ahram Kim,Chiaki Yonemoto,Babita Shashni,Chitho Feliciano	
13:45	1K17	Application to Drug Delivery System by using quantized complexes <u>Kazuki Sumiya</u> ,Hiroto Izumi,Shinichi Mochizuki,Kazuo Sakurai	
14:15	1K19	Anticancer effects of complexes of immunostimulatory CpG DNA and SPG <u>Yusuke Miyashima</u> ,Mizuha Takaoka,Kazuo Sakurai	
14:30	1K20	Cancer-specific assembling and anti-cancer effect of molecular blocks possessing self-assembling property in response to cancer microenvironment <u>Hirotaka Nakatsuji</u> ,Yudai Shioji,Yuta Okada,Noboru Hiraoka,Ichio Aoki,Michiya Matsusaki	

Kazuo Sakurai, presiding

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14:45	1K21	Functional analysis of ganglioside GD3-expressing cancer cell-derived exosomes <u>Qinyue Liu</u> ,Shin-ichi Sawada,Yoshihiro Sasaki,Koichi Furukawa,Kazunari Akiyoshi
15:00	1K22	PEG-b-poly(vinylbutyrate) self-assembling nanoparticle enhanced radiation- sensitizing effect on melanoma-bearing mice <u>Babita Shashni</u> ,Yukio Nagasaki
15:15	1K23	Engineering of the cancer cell targeted polymer drug that inhibit the enzyme cluster on the cell membrane. <u>Masahiko Nakamoto</u> ,Yuki Koba,Michiya Matsusaki
15:30	1K24	Improved drug delivery to cancer by oxidative stabilization of platinum-loaded polymeric micelles <u>Yuki Mochida</u> ,Horacio Cabral,Kazunori Kataoka
		Kanjiro Miyata, presiding
16:00	1K26	Molecular bottlebrush-based polyion complexed for delivering oligonucleotide <u>Shin Takano</u> ,Shota Fujii,Yusuke Miyashima,Kazuo Sakurai
16:15	1K27	Modification of antigenicity for cancner cells by using conjugates consisting of antigenic proteins and hyaluronic acid <u>Shinichi Mochizuki</u> ,Souichi Ogata,Reika Tsuji
16:30	1K28	Development of a Tissue Plasminogen Activator Installed Redox-Active Nanoparticle (t-PA@iRNP) for Novel Therapeutics <u>Ting Mei</u> ,Yukio Nagasaki,Kim Ahram,Long Binh Vong,Marushima Aiki,Puentes Sandra,Babita Shashni,Hiroshi Maeda
16:45	1K29	Temperature-Triggered Drug Release via Diels-Alder Reaction Aiming at Cancer Chronotherapy <u>Nanami Fujisawa</u> ,Mitsuhiro Ebara

Thu. May 27

D. BIOPOLYMERS AND BIORELATED POLYMERS "English Session"

Kuniharu Ijiro, presiding

10:00	2K05	Apoptotic cell-inspired Particles for the Improvement of Current Blood Coagulation Tests Liang Yue, <u>Yihua Liu</u> ,Mitsuhiro Ebara
10:15	2K06	Design of Shape-memory Polymeric Devices for Minimally Invasive Fetal Surgery <u>FULATI AILIFEIRE</u> ,Koichiro Uto,Miho Watanabe,Mitsuhiro Ebara
10:30	2K07	Development of Nanofiber Meshes for the Removal of Indoxyl Sulfate in Kidney Failure Patients' Blood <u>Makoto SASAKI,</u> Mitsuhiro EBARA
10:45	2K08	Design of clickable temperature-responsive polymers towards visual diagnosis for infectious diseases <u>Erika Yoshihara</u> ,Keita Hironaka,Mitsuhiro Ebara
	Ya	asuhiko Iwasaki, presiding
11:00	2K09	Fabrication of shape-memory polymer as minimally invasive medical device <u>Kazusa NAKAMURA</u> ,Koichiro UTO,Akihiko KIKUCHI,Mitsuhiro EBARA
11:15	2K10	Preparation of water-absorbent fiber meshes by centrifugal spinning for removal of excess water during hemodialysis. <u>Yuki Wada</u> ,Akihiko Kikuchi,Mitsuhiro Ebara
11:30	2K11	Development of a highly sensitive DNA-based fluorescence labeling reagent using DNA elongation enzyme <u>Yusuke Yonamine</u> ,Naohiro Okada,Hideyuki Mitomo,Kuniharu Ijiro

Michiya Matsusaki, presiding

12:30 2K12ILI Micro- and nano-polymer patterns to control cell morphology and behavior <u>Tae-Hyung KIM</u>

Mitsuhiro Ebara, presiding

- 13:00 2K14 Cell surface modulation by heparin-conjugated lipids for suppression of blood coagulation Yuji Teramura,Kenta Asawa,Kazuhiko Ishihara
- 13:15 2K15 Incorporation of cell-penetrating peptide into liposome by self-assembly and analysis of the binding Yuya Sato,Naoko Nakamura,Kazuhiko Ishihara,Yuji Teramura
- 13:30 2K16 Bio-interface composed of water-insoluble polymers tailoring cell adhesion strength based on a water content Kei Nishida,Takahisa Anada,Shingo Kobayashi,Masaru Tanaka
- 13:45 2K17 Tumor suppression by implantation of an anti-CD25 antibody-immobilized material <u>Tsuyoshi Kimura</u>,Rino Tokunaga,Yoshihide Hashimoto,Naoko Nakamura,Akio Kishida

Masaru Tanaka, presiding

- 14:15 2K19 Enhanced FRET imaging by fluorescence polymeric nanoparticles for detection of cell-surface protein-specific sialylation <u>Tingbi Zhao</u>,Tsukuru Masuda,Eiji Miyoshi,Madoka Takai
- 14:30 2K20 Evaluation of bacterial adhesion on zwitterionic cross-linked polymer coating under laminar flow condition <u>Yuta Kozuka</u>,Zhou Lu,Tsukuru Masuda,Shintaro Hara,Norifumi Isu,Madoka Takai
- 14:45 2K21 Enzyme immobilized in redox zwitterionic polymer hydrogel for implantable enzymatic biofuel cell YIXUAN HUANG,TSUKURU MASUDA,MADOKA TAKAI

Madoka Takai, presiding

- 15:00 2K22 Effect of Hydration and Viscoelastic Properties of Grafted Poly(2-Methoxyethyl Acrylate) on Fibrinogen Adsorption Behavior <u>Tomoya Ueda</u>,Daiki Murakami,Masaru Tanaka
- 15:15 2K23 Development of post-surgical colloidal wound dressing with tissue adhesive and hemostatic ability <u>Akihiro Nishiguchi</u>,Fumisato Sasaki,Hidehito Maeda,Masayuki Kabayama,Akio Ido,Tetsushi Taguchi

Yoshiko Miura, presiding

- 15:30 2K24ILI Design and synthesis of glycopolymers for cell regulation <u>Gaojian Chen</u>,Hong Chen
- 16:00 2K26 Effects of Sugar Chain Length of Bolaamphiphilic Quercetin Glycosides on Self-Assembly Behaviors in Aqueous Media Yasuhito Koyama,Mahmuda Nargis,Abu Bin Ihsan

Yasuhito Koyama, presiding

16:15 2K27 Preparation of Glycopolymer library with PET-RAFT living radical polymerization Yoshiko Miura,Uemura Takeshi,Yu Hoshino

Fri. May 28

D. BIOPOLYMERS AND BIORELATED POLYMERS "English Session"

Kazunori Matsuura, presiding

10:00 3K05 Controlled Phase-behavior of Peptide Vesicle Containing Lipid and its Controlled Drug Release <u>Avanashiappan Nandakumar</u>,Yoshihiro Ito,Motoki Ueda

10:15	3K06	Peptide co-assembly composed of I- and T-shaped amphiphilic block polypeptides having stereocomplexable helical block <u>Toru Itagaki</u> ,Motoki Ueda,Yoshihiro Ito
10:30	3K07	Single walled carbon nanotube-polymer hybrids modified with functional peptides for nucleic acid delivery into plants <u>Simon Sau Yin Law</u> ,Geoffrey Liou,Yukiko Nagai,Naoki Tanaka,Masaki Odahara,Kousuke Tsuchiya,Tsuyohiko Fujigaya,Keiji Numata
10:45	3K08	Peptide assembly as a model system in which co-solvent influences its morphology Avanashiappan Nandakumar,Yoshihiro Ito <u>,Motoki Ueda</u>
		Motoki Ueda, presiding
11:00	3K09	Structural change of microtubules by encapsulation of gold nanoparticles using a Tau-derived peptide <u>Hiroshi Inaba</u> ,Arif Md. Rashedul Kabir,Akira Kakugo,Kazuki Sada,Kazunori Matsuura
11:15	3K10	Construction of artificial biomembrane hybrids based on magnetoresponsive nanocarriers <u>Ryosuke Mizuta</u> ,Shin-ichi Sawada,Yushihiro Sasaki,Kazunari Akiyoshi
11:30	3K11	Water migration phenomena accompanied with phase separation of polymer solution in cell-sized droplets <u>Kazunari Yoshida,</u> Keitaro Horii,Azusa Saito,Akito Takashima,Izumi Nishio
12:30	3K12	Robustizing pH sensitive lipid sheet-vesicle transformation chaperoned by ionic copolymers <u>Shutaro Takahashi</u> ,Takuro Ochiai,Naohiko Shimada,Atsushi Maruyama
		Atsushi Maruyama, presiding
12:45	3K13	Evaluation of glucose-responsive core-corona type nanoparticles for application in visual diagnosis of diabetes Masanori OMAE,Syuuhei KOMATSU,Taka-Aki ASOH, <u>Akihiko KIKUCHI</u>
13:00	3K14	Formation of lipid domains by membrane-active polymer and its antimicrobial
		activity <u>Kazuma YASUHARA</u> ,Mika ISHIHARA,Tomomi INOIE,Gwenael Rapenne
13:15	3K15	DNP-SANS study on micro-structure of human hair fiber <u>Yohei Noda</u> ,Satoshi Koizumi,Tomoki Maeda,Takumi Inada,Mitsuki Tanaka,Aya Ishihara,Hiroyuki Inoue
		Akihiko Kikuchi, presiding
13:30	3K16	Fluidic Substrate for Probing Specific Breast Cancer Cellular Response to the Matrix Viscosity <u>Mazaya Najmina,</u> Koichiro Uto,Mitsuhiro Ebara
13:45	3K17	Design of Enzymatically Degradable Hydrogels for Maneuvering the Human Mesenchymal Stem Cells Behavior <u>Riho Tanimoto</u> ,Koichiro Uto,Mitsuhiro Ebara
14:15	3K19	Development of Collagen Fibers with Ultra High Elastic Modulus by Controlling Orientation of Collagen Nanofibers <u>Michiya Matsusaki</u> ,Noboru Hiraoka,Dong-hee Kang
14:30	3K20	Development of Biocompatible Clearing Molecules for Live Imaging of Three- Dimensional Tissues <u>Michiya Matsusaki,</u> Kazuma Ishiguro,Hirotaka Nakatsuji
		Michiya Matsusaki, presiding
14:45	3K21	Evaluation of physiological functions of HepG2 spheroid cultured on floating hydrogel membrane <u>Atsushi Tsuyukubo</u> ,Kimio Sumaru,Kana Morishita,Toshiyuki Kanamori
15:00	3K22	Preparation of carbonate apatite capsules based on degradable coacervate and effect for osteoblast <u>Syuuhei komatsu</u> ,Shuhei Abe,Taka-Aki Asoh,Akihiko Kikuchi

15:15 3K23 Cell surface modification of neural stem cells for ischemic stroke treatment <u>Isha Goel</u>,Yuka Yamauchi,Koichi Kato,Yuji Termaura

Mitsuhiro Ebara, presiding

- 15:30 3K24 Synthesis of cationic comb-type copolymer with photo-responsive molecule <u>Seiva Takemura</u>,Naohiko Shimada,Atsushi Maruyama
- 16:00 3K26 Citrulline polypeptide/nucleic acids complex as a model of intracellular liquidto-solid transition of membraneless organelles <u>Shouhei Nomura</u>,Naohiko Shimada,Atsushi Maruyama
- 16:15 3K27 Evaluation of ureido polymers as cold shock stress granules <u>Naohiko Shimada</u>,Takuya Komachi,Atsushi Maruyama

Atsushi Maruyama, presiding

16:30 3K28 Apoptotic Cell Membrane-inspired Polymers to Control the Inflammatory Environment in Spinal Cord Injury <u>Akari Tasaki</u>,Yihua Liu,Mitsuhiro Ebara

Room L

Wed. May 26

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

Masato Suzuki, presiding

10:00	1L05	Effect of Air Atmosphere on the Photo-Induced Chain Polymerization in the Self-Assembled Monolayers of Diacetylene on Graphite Surface Studied by Scanning Tunneling Microscopy <u>Daisuke Takajo</u> ,Koichi Sudoh
10:15	1L06	Synthesis of Structurally Controlled Amphiphilic Hyperbranched Block Copolymers and Their Micelle Formation in Water <u>Yuzhong HE</u> , Yangtian LU, Masatosi TOSAKA, Shigeru YAMAGO
	Ko	oji Takagi, presiding
10:30	1L07	Controlled synthesis of high molecular weight polystyrene by ab-initio emulsion organotellurium-mediated radical polymerization <u>Yuhan JIANG</u> ,Masatoshi TOSAKA,Shigeru YAMAGO
10:45	1L08	Elucidation of the decomposition mechanism of dithiobenzoate RAFT dormant species in the polymerization of acrylamides and its suppression <u>Yuji Imamura</u> ,Shigeru Yamago
11:00	1L09	Clarification of the termination mechanism in the radical polymerization of vinyl acetate <u>Xiaopei LI</u> ,Yasuyuki NAKAMURA,Shigeru YAMAGO
11:15	1L10	Investigation of Mechanism for Styrene Polymerization Initiated by Stable Aryl Radicals Catalytically Generated in Interlayer Space of Clays <u>Kyohei Hisano</u> ,Yugo Okada,Osamu Tsutsumi,Fuminao Kishimoto
11:30	1L11	Nano-dispersed Ziegler-Natta catalyst for the synthesis of less entangled ultra- high molecular weight polyethylene <u>Patchanee Chammingkwan</u> ,Yusuke Bando,Le Thi Tuyet Mai,Minoru Terano,Toshiaki Taniike
	Ko	otohiro Nomura, presiding
12:30	1L12ILI	A New Plastic Future: Biodegradable Polyhydroxyalkanoates Derived from Cyclic Diolides <u>Xiaoyan Tang</u>

Kayo Terada, presiding

13:00 1L14 Cationic Polymerization of Vinyl Monomers using Halogen Bonding Organocatalysts with Varied Activity <u>Koji Takagi</u>,Hiroto Murakata,Koji Yamauchi,Kohei Hashimoto

13:15	1L15	Revisiting the Polymerization of Diphenylacetylenes with Tantalum(V) Chloride and Cocatalysts <u>Shingyo Sueyoshi</u> ,Tsuyoshi Taniguchi,Tatsuya Nishimura,Katsuhiro Maeda
13:30	1L16	Rhodium-catalyzed living polymerization of phenylacetylenes in water <u>Kensuke Echizen</u> ,Tsuyoshi Taniguchi,Tatsuya Nishimura,Katsuhiro Maeda
13:45	1L17	Polymerization of Diphenylacetylenes with Low-Valent Tungsten Catalysts <u>Tsuyoshi Taniguchi,</u> Mami Miyairi,Tatsuya Nishimura,Katsuhiro Maeda
	Ka	atsuhiro Maeda, presiding
14:15	1L19	Synthesis of bio-based polyesters by tandem acyclic diene metathesis polymerization and hydrogenation <u>Mohamed Mehawed Abdellatif</u> ,Permpoon Chaijaroen,Kotohiro NOMURA
14:30	1L20	Hetero-Tetranuclear Complex Catalyzed Alternating Copolymerization of CO2 and Epoxide in The Presence of Active Methylene Compounds as the Chain Transfer Agent <u>Haruki Nagae</u> ,Shin-ya Akebi,Takanori Iwasaki,Kyoko Nozaki,Kazushi Mashima
14:45	1L21	Synthesis of histidine-containing polypeptide by chemoenzymatic polymerization <u>Kayo Terada</u> ,Taichi Kurita,Kousuke Tsuchiya,Keiji Numata
15:00	1L22	Azide-alkyne cycloaddition polymerization of <i>t</i> -butyl 4-azido-5-heynoate and characterization of the polymer obtained <u>Yuri Kamon</u> ,Shota Yamasaki,Linlin Xu,Akihito Hashidzume
15:15	1L23	Synthesis of Polyanion Possessing Dense 1,2,3-Triazole Backbone by Copper(I)-Catalyzed Azide-Alkyne Cycloaddition Polymerization <u>LINLIN XU</u> ,Kamon Yuri,Hashidzume Akihito
15:30	1L24	Synthesis of Organometallic Polymers Containing Dithienotitanacyclopentadiene Units <u>Alvin Tanudjaja</u> ,Shinsuke Inagi,Ikuyoshi Tomita
	Al	kinori Takasu, presiding
16:00	1L26	Synthesis of polypeptides containing an alternating sequence of lysine/glutamic acid via chemoenzymatic polymerization <u>Kousuke Tsuchiya</u> ,Keiji Numata
16:15	1L27	Synthesis and Optical Properties of Ultrahigh Refractive Index Poly(phenylene sulfide)s via Oxidative Polymerization <u>Seigo Watanabe</u> ,Hiromichi Nishio,Kenichi Oyaizu
16:30	1L28	Polymerisation of Aromatic Polymers with Thermally Stable Organic Catalysts <u>Shu Kaiho</u> ,Kayla R. Delle Chiaie,Andrew P. Dove
16:45	1L29	Synthesis of poly(pentafluorophenyl methacrylate)-functionalizable core containing nanoaggregates by polymerization-induced self-assembly (PISA) for post-polymerization <u>Panittha Damsongsang</u> ,Voravee P. Hoven,Shin-ichi Yusa

Thu. May 27

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

Akihito Hashidzume, presiding

10:00	2L05	Synthesis of aromatic ladder polymer utilizing coordination nanospaces <u>Takumi Miura</u> ,Takashi Kitao,Takashi Uemura
10:15	2L06	Synthesis and upconversion property of platinum-containing poly(norbornene)s bearing naphthalimide moieties <u>Taichi Sotani</u> ,Toshiko Mizokuro,Hiromitsu Sogawa,Fumio Sanda
10.30	21.07	Polymerization of lactide with pseudo-polyrotayane as initiator and

10:30 2L07 Polymerization of lactide with pseudo-polyrotaxane as initiator and stereocomplex formation of branch structure <u>Jaeyeong Choi</u>,Hiroharu Ajiro

10:45	2L08	Synthesis of Superhydrophobic Cross-linked Nanostructured Materials by the Living Coordination Block Copolymerization of Fluorous Allenes with Hydrophobic Allenes via Polymerization-induced Self-assembly Process <u>Yidan Cheng</u> , Takeshi Wakiya, Shinsuke Inagi, Ikiuyoshi Tomita
11:00	2L09	Creation of Dual Stimuli-responsive Polymer Nanostructures by Living Coordination Copolymerization of Allene Derivatives. <u>Yidan Wei</u> ,Takeshi Wakiya,Shinsuke Inagi,Ikuyoshi Tomita
		Masato Suzuki, presiding
11:15	2L10	Creation of Crystalline Polymeric Nanoplatelets by pi-Allylnickel-catalyzed Living Coordination Polymerization of Allene Derivatives via Polymerization- induced Crystallization-driven Self-assembly Process <u>Yidan Cheng</u> ,Takeshi Wakiya,Shinsuke Inagi,Ikuyoshi Tomita
11:30	2L11	Fabrication of Ultrasmall Network Structure from Sugar-Terpenoid Hybrid Materials <u>Chaehun Lee</u> ,Brian J Ree,Kai Chen,Ryoya Komaki,Satoshi Katsuhara,Takuya Isono,Takuya Yamamoto,Kenji Tajima,Hsin-Lung Chen,Toshifumi Satoh
		Hiroharu Ajiro, presiding
12:30	2L12	Templated Synthesis of Two-Dimensional Polymer Networks using MOFs <u>Yuki Hayashi</u> ,Nobuhiko Hosono,Takashi Uemura
12:45	2L13	2D Polymeric Nanomaterials via MOF-Templated Copolymerization <u>Marta Ximenis Campins</u> ,Nobuhiko Hosono,Takashi Uemura
13:00	2L14	Synthesis of Helical Polyphenylacetylene Bottlebrushes and Their Chiroptical Properties Masato Yamamoto,Moriya Kikuchi,Seigou Kawaguchi,Tsuyoshi Taniguchi, <u>Tatsuya Nishimura</u> ,Katsuhiro Maeda
13:15	2L15	Control Over Self-Assembly of Charge-Terminated Amphiphilic Poly(3- hexylthiophene) Based on the Energy Landscape <u>Tomoya Fukui</u> ,Ian Manners
13:30	2L16	Self-healing hybrids fabricated by metal complexation with imidazole- containing silsesquioxane nanoparticles <u>Yusuke Sasaki,</u> Hideharu Mori
		Ikuyoshi Tomita, presiding
13:45	2L17	Supramolecular Polymerization of Thiophene-Fused Chiral [4 <i>n</i>]Annulenes: (1)Perfect Heterochiral Supramolecular Polymer with Unconventional Optical Activity <u>Tsubasa Aoki</u> ,Michihisa Ueda,Takayuki Nakamuro,Eiichi Nakamura,Takuzo Aida,Yoshimitsu Itoh
14:15	2L19	Supramolecular Polymerization of Thiophene-Fused Chiral [4 <i>n</i>]Annulenes: (2) Effect of Side Chain Structures on Stereoselection <u>Takayoshi Akiyama</u> ,Tsubasa Aoki,Takuzo Aida,Yoshimitsu Itoh
14:30	2L20	Helically organized fullerene array within supramolecular polymer chain <u>Takehiro Hirao</u> ,Yoshiki Iwabe,Naoka Fujii,Takeharu Haino
		Shin-ichi Matsuoka, presiding
14:45	2L21	Thermal Isomerization and Stability of Helical Conformation of Optically Active Poly(phenylacetylene) Derivatives <u>Masahide Goto,</u> Masaki Minami,Hiromitsu Sogawa,Fumio Sanda
15:00	2L22	Difference of microplastic formation between marine and terrestrial regions <u>Hisayuki Nakatani</u> ,Takuya Muraoka,Yuina Ohsima
15:15	2L23	Carbonization of Polyacrylonitrile Chains in Metal-Organic Frameworks <u>Xiyuan Zhang</u> ,Ryoto Hongu,Takashi Kitao,Takashi Uemura
15:30	2L24	Computational analysis for the aminolysis of new activated ester and its application to post-modification reaction processes <u>Kiho Matsubara</u> ,Kota Fukasawa,Hideki Amii,Ryohei Kakuchi

15:45 2L25 An engineered Petasis three-component reaction for the synthesis of poly(αamino acid) Lichieh Chou,Ryo Takahashi,Ryohei Kakuchi

Fri. May 28

E. POLYMERS AND ENVIRONMENT "English Session"

Naoko Yoshie, presiding

- 10:00 3L05 Synthesis and Characterization of Bio-based Copolyesters Composed of Divanillic Acid, Cyclic diol and Alkanediol <u>Yunfan Zhang</u>,Yukiko Enomoto,Tadahisa Iwata
- 10:15 3L06 Synthesis and characterization of paramylon propionate-graft-poly(lactic acid) and paramylon propionate-graft-poly(ε-caprolactone) Jin Ho Seok,Yukiko Enomoto,Tadahisa Iwata
- 10:30 3L07 Fabrication of Cell-Plastic Film Using Water-Soluble and Biodegradable PVA as Filler

Kohei Iritani, Ayami Ota, Takashi Yamashita

Tadahisa Iwata, presiding

- 10:45 3L08ILI Amino Acid-Derived Ecopolymers for Sustainability and Protein Therapeutics <u>Hua Lu</u>
- 11:15 3L10 Developing green and sustainable bioprocess and spinning process for artificial spider dragline silk using marine photosynthetic cell factory Choon Pin Foong,Ali D. Malay,Keiji Numata

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

Tasuku Nakajima, presiding

12:30 3L12ILI Improved network formation in polyelectrolyte complex hydrogels via suppression of micellization Younsoo Kim

Teruaki Hayakawa, presiding

- 13:00 3L14 Effect of Mesoscale Phase Contrast on Fatigue-Delaying Behavior of Tough and Self-Healing Hydrogels Xueyu Li,Kunpeng Cui,Takayuki Kurokawa,Jian Ping Gong
- 13:15 3L15 Nanophase-Separation-Induced Synergetic Toughening in Immiscible Double Network Elastomers Yong Zheng, Tasuku Nakajima, Jian Ping Gong
- 13:30 3L16 Effect of uncrystallizable 3-hydroxyhexanoate (3HH) content on crystallization kinetic of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) (PHBH) from melt <u>Toan Van Nguyen</u>,Kaji Kenshiro,Masunaga Hiroyasu,Hoshino Taiki,Sakurai Shinichi,Sasaki Sono
- 13:45 3L17 Direct polymer/metal adhesion induced by interfacial phase separation <u>YIDA LIU</u>,YURI SHIGEMOTO,TAKESHI HANADA,KAZUNORI KAWASAKI,TAKAYUKI MIYAMAE,SHIN HORIUCHI

Shin Horiuchi, presiding

- 14:15 3L19 Creation of golf ball-shaped surface morphological particles using diblock copolymer via 3D confined self-assembly Liang Tong, Yuta Nabae, Hiroshi Yabu, Teruaki Hayakawa
- 14:30 3L20 Enhancement of the binding affinity of cyclodextrin for guest molecules by polymerizing with epichlorohydrin <u>Anh Doan</u>,Thi Hong Van Doan,Shota Fujii,Kazuo Sakurai
- 14:45 3L21 Dispersion State of Carbon Black in an Immiscible Polymer Blend and Composite Viscoelastic Properties Junsai Kogure, Yoshihisa Fujii, Naoya Torikai

15:00 3L22ILI Probing nanochemical domains of dry powder inhalers using atomic force microscopy infrared spectroscopy (AFM-IR) <u>Dipesh Khanal</u>,Jing Zhang,Wei-Ren Ke,Mark M. Banaszak Holl,Hak-Kim Chan

Kenji Urayama, presiding

15:30 3L24ILI Natural Rubber : An Indispensable Material for Sustainable Society in the 21st Century Preeyanuch Junkong

Room M

Wed. May 26

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Izumi Ichinose, presiding

- 13:30 1M16 Adjacent cationic-aromatic sequences yield strong electrostatic adhesion of hydrogels in seawater Hailong Fan, Jian Ping Gong
- 13:451M17Oligomeric Thiourea for Rapid and Strong Underwater Adhesion
Kohei Kikkawa,Yu Yanagisawa,Yoshimitsu Itoh,Takuzo Aida
- 14:15 1M19ILI Ultrathin polymer nanofilm composite membranes for ionic and molecular separation

Santanu Karan, Pulak Sarkar, Solagna Modak

Ikuyoshi Tomita, presiding

- 14:45 1M21ILI Two-Dimensional Covalent Organic Frameworks: Structural Design, Synthesis, and Application Ning Huang,Donglin Jiang
- 15:15 1M23 Synthesis of π-conjugated helical polymers bearing cinchona alkaloid moiety for asymmetric organocatalysis application <u>Hiroya Sasaki</u>,Shinichi Itsuno
- 15:30 1M24 Development of one-pot multi-step reactions by using polymer microsphereimmobilized chiral prolinol derivative <u>Mithun Kumar Debnath</u>,Naoki Haraguchi

Naoki Haraguchi, presiding

- 16:001M26Water-soluble multi-walled carbon nanotube bearing phosphorylcholine
groups for heat generation
Thi Lien Nguyen,Madoka Takai,Kazuhiko Ishihara,Shin-ichi Yusa16:151M07
- 16:15 1M27 Synthesis and Applications of Stimuli-responsibe Nanostructured Materials Having AIE Functions by Living Coordination Polymerization of Allene Derivatives <u>Taidong Yao</u>, Wakiya Takeshi, Shinsuke Inagi, Ikuyoshi Tomita

'hu. May 27

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Tsuyoshi Minami, presiding

- 10:15 2M06ILI Facile Synthesis and Applications of Dendritic Polymers Exhibiting Sizedependent Properties <u>Chien-Hsin Wu</u>,Ru-Jong Jeng
- 10:45 2M08 All-Organic Optical gate operation by Photoswitchable energy transfer Cascade of Interconnected Polymer <u>Hendra Hendra</u>,Akihide Takeuchi,Osamu Oki,Hiroshi Yamagishi,Masakazu Morimoto,Masahiro Irie,Yohei Yamamoto

Yohei Yamamoto, presiding

11:00	2M09	Strain sensor using a dopant dye with its absorption matching the transmission window of a polymer optical fiber <u>Hayato Yamazaki</u> ,Keigo Uzawa,Kentaro Yano,Rei Furukawa
11:15	2M10	Clustering behavior of phthalocyanine derivatives doped in a polymer optical fibers core <u>Takahiro Shigeyama</u> ,Chie Hirose,Rei Furukawa
11:30	2M11	Mode-dependent polarization analysis of plastic optical fibers with birefringence-reduce core <u>Shingo Sode</u> ,Hayato Yamazaki,Keigo Uzawa,Rei Furukawa
	Μ	itsutoshi Jikei, presiding
12:30	2M12	Facile Designing of Silicon Carbide Based Nanocomposites as A Resilience Anode Material for Lithium-Ion Batteries <u>Nandan Ravi</u> ,Noriyuki Takamori,Koichi Higashimine,Rajashekar Badam,Noriyoshi Matsumi
12:45	2M13	A Perspective on the Effect of PIL Structure on the Performance as Anodic Binder in Li-ion Secondary Batteries <u>Tejkiran Pindi Jayakumar</u> ,Rajashekar Badam,Noriyoshi Matsumi
13:00	2M14	Effect of substituents on sulfonated poly(p-phenylene)s <u>Fanghua Liu</u> ,Jinju Ahn,Junpei Miyake,Kenji Miyatake
	No	priyoshi Matsumi, presiding
13:15	2M15	Hyperbranched polyphenylene as an organic electrode for Li-ion batteries <u>Laurel Simon Lobo</u> ,Kazuya Matsumoto,Mitsutoshi Jikei
13:30	2M16ILI	Understanding the interactions in organic solid electrolytes and composites for future battery applications <u>Xiaoen Wang</u> ,Fangfang Chen,Gaetan Girard,Frederick Nti,David Mecerreyes,Patrick Howlett,Maria Forsyth
	Та	akashi Uemura, presiding
14:15	2M19	Dielectric Elastomer Actuator Behavior of Silicone/Cyanoethylsucrose Composite films <u>Satoshi Tamura</u> ,Ryotaro Kiyono,Toshihiro Hirai
14:30	2M20	Synthesis and Characterization of AIE-Active Naphthalimide Modified Cyclosiloxane Molecules <u>Manmian Chen</u> ,Huie Zhu,Masaya Mitsuishi
	М	asaya Mitsuishi, presiding
14:45	2M21ILI	Application of porous materials in membrane separation Xiao Feng

15:15 2M23 Chiral Induction in Buckminsterfullerene Using a Metal-Organic Framework Shao-Wei Lo, Yusuke NADA, Takashi KITAO, Takashi UEMURA