Room A

Mon. Sep 6

Invited Lecture

Masashi Kijima, presiding

10:25 1A04IL Paper-based electronics and sensor
Toshiharu Enomae

Yoshihiro Kikkawa, presiding

11:15 1A06IL ISO standardization for plastics related to environment
Masao Kunioka

Ikuyoshi Tomita, presiding

13:20 1A09IL Development of Functional Polymeric Materials by RAFT polymerization and Their Applications
Hideharu Mori

Hiroki Uehara, presiding

14:10 1A11IL Design of Metal Catalysts and Monomers Aiming for Synthesis of New Polyolefins
Daisuke Takeuchi

Koji Matsuoka, presiding

15:25 1A14IL The dynamic epitope theory-Vulnerability of proteins induced by posttranslational glycosylation
Shin-ichiro Nishimura

Jun-ichi Kadokawa, presiding

16:15 1A16IL Invention of Liquid-Crystalline Polymeric Systems and Their Applications
Seiji Ujiie

Ken Nakajima, presiding

17:05 1A18IL bio-inspired polymer electronic devices
Naoki Asakawa

Tue. Sep 7

Invited Lecture

Atsushi Maruyama, presiding

9:35 2A02IL Development of polymers that control association and phase separation behavior of biomacromolecules and their application to biomaterials
Akihiro Kishimura

Koichiro Uto, presiding

10:25 2A04IL Development of functional polymers based on degradable aliphatic polycarbonates towards applications in biomaterials
Kazuki Fukushima

Akihiko Kikuchi, presiding

11:15 2A06IL Design and Application of Polymeric Materials that Exhibit Both High Degradability and Stability
Nobuhiro Kihara

Hideaki Yokoyama, presiding

13:20 2A09AL Analysis and functionalization of anisotropic changes in structure and properties of heat-resistant polymers under high pressure and temperature
Shinji Ando

Award Lecture

Michinari Kohri, presiding

14:10 2A11AL Cryoprotective properties of polyampholytes and their biomedical applications
Kazuaki Matsumura

Tomoya Higashihara, presiding

15:25 2A14AL Development of functionalization method of carbon materials using polymer-wrapping approach
Tsuyohiko Fujigaya

Shusaku Nagano, presiding

16:15 2A16AL Charge Transport and Near-Infrared Emission Properties of Semiconducting Polymers
Tsuyoshi Michinobu

Hiroyuki Asanuma, presiding

17:05 2A18AL Development of Reversible CO2 Absorbent Driven by Phase Transition of Amine-Containing Hydrogels
Yu Hoshino

Wed. Sep 8

Invited Lecture

Kazunari Akiyoshi, presiding

11:15 3A06IL Soft Metallurgy of Block Copolymer
Hsin-Lung Chen,Li-Ting Chen,Nai-Wen Hsu,Babak Nouri,Chun-Yu Chen

Room B

Mon. Sep 6

S2. Well-defined Functional Polymers Prepared by Precision Polymerization

9:50 1BSO Introductory Remarks S2
Eiji Ihara

Takeharu Haino, presiding

10:00 1B03 Synthesis of mechanically-linked cyclic polymers exploiting the exchange reaction of bis(hindered amino)disulfide linkages
Rikito Takashima,Daisuke Aoki,Hideyuki Otsuka

10:25 1B04 Insight into Carbon-Carbon Dynamic Covalent Bonds from Quantum Calculation
Yi LU,Hajime SUGITA,Koichiro MIKAMI,Daisuke AOKI,Hideyuki OTSUKA

Koichiro Mikami, presiding

10:50 1B05 Control of mechanical properties of slide-ring gels by precise synthesis of polyrotaxane with homogeneous host/guest ratios.
Takako Noritomi,Lan Jiang,Koichi Mayumi,Hideaki Yokoyama,Kohzo Ito

11:15 1B06 Construction of Divers Supramolecular Polymer Topologies by Curvature-Forming Supramolecular Polymerization
Shiki Yagai

11:40 1B07 Structures and functions of noncovalent networks formed by bis(benzimidazole)-bound zinc dichlorido complexes
Shun Ohta,Ryoga Yamaguchi,Yurika Iwabuchi,Masaaki Okazaki

Daisuke Aoki, presiding

12:55 1B08 Structure and function of supramolecular polymer controlled by molecular recognition of calix[5]arene and C60
Takeharu Haino,Yoshiki Iwabe,Takehiro Hirao

13:20 1B09 Living supramolecular polymerization in two dimensions
Kazunori Sugiyasu

Junpei Kuwabara, presiding

13:45 1B10 Multiblock copolymerization of aromatic oligoamide with aliphatic polyether and the application to shape memory resin
Yuji Shibasaki,Ryoji Kudo,Tadashi Tsukamoto,Yoshiyuki Oishi,Atsuhiro Fujimori

14:10 1B11 Syntheses and evaluation of degradation properties for itaconic acid-derived biobased polyamides.
Takuya Kumakura,Wang Huaiyu,Maninder Singh,Ali Asif Mohammad,Kenji Takada,Tatsuo Kaneko

14:35 1B12 Synthesis of Ladder-like Oligomers and Polymers by Intramolecular Direct Arylation
Koji Takagi,Asuka Maeda,Daiki Miyamoto,Hidetoshi Tanaka

Yuji Shibasaki, presiding

15:25 1B14 Development of Nonstoichiometric Polyaddition via Hydroarylation of Alkynes
Ryota Iwamori,Ryota Sato,Junpei Kuwabara,Takaki Kanbara

15:50 1B15 Polycondensation using conjugate substitution: Controls of repeating units by understanding of reaction kinetics and mechanisms
Yasuhiro Kohsaka,Keito Hagiwara,Takumi Miyazaki,Koki Nagai

16:15 1B16 A Novel Poly(arylene oxide) Synthesized by an Artificial Enzyme-Catalyzed Oxidative Polymerization of 2-Phenylphenol
Akiyuki Nakano,Hoshito Tamaki,Rikuo Tanaka,Yoichi Tanabe,Hideyuki Higashimura

Koji Takagi, presiding

16:40 1B17 Synthesis of Uniform Cyclic Oligomers by Cu(I)-Catalyzed Azide–Alkyne Cycloaddition and Their Interaction

Koki Ishitsuka,Yuri Kamon,Akihito Hashidzume

17:05 1B18 Click Living Polymerization of AB Monomers with Hydrophilic PEO Spacer
Satoshi Sakai,Tomohiro Kubo,Kotaro Satoh

17:30 1B19 Click Living Polymerization of Various Monosaccharides AB Monomers
Sawako Doi,Tomohiro Kubo,Kotaro Satoh

Tue. Sep 7

S2. Well-defined Functional Polymers Prepared by Precision Polymerization

Hiromitsu Sogawa, presiding

9:10 2B01 Synthesis of linear and cyclic aromatic polymers by means of unstoichiometric polycondensation using excess acceptor dibromoarylene and synthesis of graft copolymers with conventional vinyl polymers
Sana KOBAYASHI,Yoshihiro OHTA,Tsutomu YOKOZAWA

9:35 2B02 Precise synthesis of poly(*N*-alkyl carbazole)s via Suzuki-Miyaura catalyst-transfer polycondensation of triolborate salt type monomers
Mayoh Ashiya,Saburo Kobayashi,Brian J Ree,Takuya Isono,Takuya Yamamoto,Kenji Tajima,Toshifumi Satoh

10:00 2B03 Development of Highly Active Nickel Catalysts Possessing Carboxylate Ligands for Coordination Polymerization of Unsaturated Monomers
Shunsuke Kochi,Yooichiroh Maruyama,Toshiaki Kadota,Ryoyu Hifumi,Shinsuke Inagi,Ikuyoshi Tomita

Daisuke Takeuchi, presiding

10:25 2B04 Synthesis and properties of star polymers possessing norbornene/1-octene gradient copolymer arms
Haobo Yuan,Ryo Tanaka,Yuushou Nakayama,Takeshi Shiono

10:50 2B05 Synthesis of Elastomers by Yttrium-Catalyzed Isospecific Trans-1,4-Polymerization of (E)-1,3-Pentadiene
Kei Nishii,Guangli Zhou,Yusuke Saito,Atsushi Yamamoto,Masayoshi Nishiura,Yi Luo,Zhaomin Hou

Masayoshi Nishiura, presiding

11:15 2B06 Polymerization of conjugated dienes by rare earth metal amide / hydroxypyridine catalyst systems
Kento Shibuta,Daisuke Takeuchi,Shigenaga Takano

11:40 2B07 Ring-opening metathesis polymerization of norbornene monomer, and terminal functionalization of the formed polymer with platinum-acetylide complexes
Shoichiro Uchiyama,Taichi Sotani,Hiromitsu Sogawa,Fumio Sanda

Eiji Ihara, presiding

12:55 2B08IL Cascade Olefin Metathesis Polymerization
Tae-Lim Choi

Kosuke Oki, presiding

13:45 2B10 Stereospecific Ring-Opening Metathesis Polymerization of Cyclic Olefins by (Arylimido)vanadium-Alkylidene Catalysts
Kotohiro NOMURA

14:10 2B11 Synthesis of PMEA analogs with altered position of carbonyl groups: their hydration state and blood compatibility

Shingo Kobayashi,Yasuki Okazaki,Kazuki Morita,Masaru Tanaka

14:35 2B12 Recent advances in Pd-catalyzed C1 polymerization of diazoacetates
Hiroaki Shimomoto,Eiji Ihara

Kotohiro Nomura, presiding

15:25 2B14 Synthesis of Helically π-Stacked Poly(quinolylene-2,3-methylene) via Living Cyclopolymerization: Structural Stabilization by Types of Side Chain Amino Acid Substituents
Naoya Kanbayashi,Yuki Kataoka,Taka-aki Okamura,Kiyotaka Onitsuka

15:50 2B15 Development of living polymerization of phenylacetylenes in water using rhodium catalysts and its application to synthesis of water-soluble telechelic polymers
Kensuke Echizen,Tsuyoshi Taniguchi,Tatsuya Nishimura,Katsuhiro Maeda

Naoya Kanbayashi, presiding

16:15 2B16 Immobilization of Poly(biphenylylacetylene)s Bearing Polar Pendant Groups in the Vicinity of the Main-Chains onto Silica Gel and Their Application to Switchable Chiral Stationary Phases
Atsushi Tsuzuki,Tomoyuki Ikai,Eiji Yashima

16:40 2B17 Acid-Base Interaction-Driven Helical Chirality Induction of Poly(quinoxaline-2,3-diyl)s Bearing Achiral Carboxyl Side Chains: Highly Sensitive Chirality Detection of Amines by CD Spectroscopy
Tomonori Yamawaki,Takuma Kuroda,Yuuya Nagata,Michinori Suginome

17:05 2B18 Chiral Recognition by NMR Spectroscopy Based on Nonbonding Interaction of Small Molecules with Single-Handed Poly(quinoxaline-2,3-diyl)s
Takaya Fujie,Takeshi Yamamoto,Michinori Suginome

Wed. Sep 8

S2. Well-defined Functional Polymers Prepared by Precision Polymerization

Tsuyoshi Nishikawa, presiding

9:10 3B01 Preparation and polymerization of styrene trimer with the controlled stereochemistry
Sorachi Saito,Yuma Tanaka,Naoki Fukaya,Kazutada Ikeuchi,Keiji Taninp,Kenta Kokado,Kazuki Sada

9:35 3B02 Precise synthesis of chain-end di-functionalized poly(dimethylsiloxane)s with azide groups and ABA-type triblock copolymers consisted of poly(dimethylsiloxane) and poly(3-hexylthiophene) segments
Keiichiro Sato,Shin Inagaki,Tomoya Higashihara,Keita Fuchise

10:00 3B03 Preparation and characterization of uniform oligo(phenylacrylamide)
Hinako Iwamoto,Satoki Fukuda,Sotaro Akashi,Yusuke Saito,Yu Hoshino,Yoshiko Miura

Ryohei Kakuchi, presiding

10:25 3B04 UV-Curing via Photo-controlled Radical Polymerization and Nanostructure Control
Takeo Suga,Midori Iwakiri,Go Araki,Kenichi Oyaizu

10:50	3B05	Precision Syntheses of PS-PMMA Block Copolymers Carrying Oligopeptide at the Junction toward Phase Separation of Low Molecular Weight Polymer Tomoka Yoshimura,Yoshihiro Agata,Kodai Nagashima,Yuta Nabae,Teruaki Hayakawa,Makoto Ouchi
11:15	3B06	Novel inclusion material based on intramolecular polymerization of cyclodextrin derivatives containing multiple vinyl groups Kaito Yamashita,Reiko Saito
	Jin Motoyanagi, presiding	
11:40	3B07	Practical application of styrene-acrylic elastomer using Reversible Addition-Fragmentation Chain Transfer (RAFT) polymerization. Hirokazu Mogami,Hirokazu Okada,Takayuki Ishimoto,Hideharu Mori
12:55	3B08	Self-Sorting and Co-Self-Assembly of Amphiphilic Random Copolymer Micelles in Water: Environment-Responsive Discrimination and Association Rikuto Kanno,Makoto Ouchi,Takaya Terashima
	Takaya Terashima, presiding	
13:20	3B09	Synthesis of hyperbranched-linear amphiphilic block copolymers and their micelle formation in water Lu Yangtian,Yuzhong He,Masatoshi Tosaka,Yuki Watanabe,Mikito Takenaka,Shigeru Yamago
13:45	3B10	Synthesis of hyperbranched polymers by polymerization induced self-assembly (PISA) Yangtian Lu,Kana Goto,Masatoshi Tosaka,Shigeru Yamago
14:10	3B11	Development of novel ring-expansion RAFT polymerization with a cyclic trithiocarbonate derivative Hiroki Fujii,Jin Motoyanagi,Masahiko Minoda
	Shigeru Yamago, presiding	
14:35	3B12	Radical Copolymerizations of Divinyl Ether with N-Alkyl Maleimide for Precision Syntheses of Topologically Unique Alternating Cyclopolymers Hiroyuki Kubota,Makoto Ouchi
15:25	3B14	Feasible chain-end modification via the combination of RAFT polymerization and the Passerini three component reaction Ryohei Kakuchi
15:50	3B15	Controlled Polymerization of Alkenyl Boronate and End-Selecting Suzuki-Miyaura Cross Coupling: Orthogonal Pendant Transformation for the Repeating and Terminal Units Tomoaki Kanazawa,Tsuyoshi Nishikawa,Makoto Ouchi

Room C

Mon. Sep 6

S3. Frontiers in Polymer Synthesis Developed by Key Reactions and Molecular Designs

9:50	1CSO	Introductory Remarks S3 Shin-ichi Matsuoka,Tsuyoshi Nishikawa

Ryohei Kakuchi, presiding

10:00 1C03 Degradation and Isomerization of poly(conjugated ester)s by conjugate substitution reaction assisted via allyl substituent
Anri Tanaka,Keito Hagiwara,Yasuhiro Kohsaka

10:25 1C04 Cationic Co- and Terpolymerization of 1,3-Dioxa-2-silacycloalkanes with Vinyl Ethers, Cyclic Ethers, and/or Carbonyl Monomers
Ryosuke Hada,Arihiro Kanazawa,Sadahito Aoshima

10:50 1C05 Design of Divinyl Monomer for Efficient Syntheses of AB Alternating Copolymers Made of Two Different Acrylamide Units and Sequence-Specific Thermoresponsive Behaviors
Kentaro Shibata,Makoto Ouchi

Raita Goseki, presiding

11:15 1C06 Sequence-Controlled Synthesis of Oligosiloxanes
Kazuhiro Matsumoto

11:40 1C07 Design of Hyperbranched Polyester by Ring-opening Alternating Copolymerization of Cyclic Anhydride and Epoxide
Ryota Suzuki,Xiaochao Xia,Takuya Yamamoto,J. Brian Ree,Takuya Isono,Kenji Tajima,Toshifumi Satoh

Tsuyoshi Nishikawa, presiding

12:55 1C08IL Flash Synthetic Polymer Chemistry from Space Controlling Time
Aiichiro Nagaki

Yasuhiro Kohsaka, presiding

13:45 1C10 One-pot synthesis of sequence-controlled polymers by living anionic addition reaction
Kazuki Takahata,Raita Goseki,Takashi Ishizone

14:10 1C11 Synthesis of (self-)alternating (co)polymer through anionic polymerization of designed monomers based on reactivity
Raita Goseki,Hamin Kim,Yoshito Itaya,Takashi Ishizone

14:35 1C12 Synthesis and radical polymerization of metal salt/amide-based deep eutectic monomers
Yuta Tanaka,Ayaka Torii,Hideharu Mori

Hideharu Mori, presiding

15:25 1C14 Precise synthesis of graphene nanoribbons in metal-organic frameworks
Takashi Kitao,Takashi Uemura

15:50 1C15 [2+2] photocycloaddition polymerization within confined spaces: towards molecular weight control
Kei Saito

16:15 1C16 Radical Polymerization of Vinyl Boronate Derivatives and Subsequent Side-Chain Replacement: Molecular Design of the Boron Pendants toward Efficient Polymerization and Versatile Transformation
Hiroshi Suzuki,Tsuyoshi Nishikawa,Makoto Ouchi

Takashi Kitao, presiding

16:40 1C17 A modification of the Petasis three-component reaction for the integration with polymer synthesis
Lichieh Chou,Ryohei Kakuchi

17:05 1C18 Computational analysis for aminolysis of novel activated esters and its application to post-modification reactions
Kiho Matsubara,Hideki Amii,Ryohei Kakuchi

17:30 1C19 Practical synthesis of hyperbranched polymer by ab-initio emulsion radical polymerization
Yuhan JIANG,Masatoshi TOSAKA,Shigeru YAMAGO

17:55 1C20 Simulation of Formation Process of Dendrimer-like Hyper-branched Polymer by Radical Polymerization
Masatoshi TOSAKA,Yangtian LU,Shigeru YAMAGO

Tue. Sep 7

S3. Frontiers in Polymer Synthesis Developed by Key Reactions and Molecular Designs

Shin-ichi Matsuoka, presiding

9:10 2C01IL Lewis Pair Polymerization for Synchronous Control of Chain Length, Sequence, and Topology
Eugene Y.-X. Chen

Hiroaki Shimomoto, presiding

10:00 2C03 Synthesis and Characterization of Novel Semiconducting Elastomer Materials by using Chain-end-functionalized Poly(3-hexyl thiophene)
Shin Inagaki,Hisakazu Tanaka,Yan-Cheng Lin,Wen-Chang Chen,Tomoya Higashihara

10:25 2C04 Synthesis of boron-functionalized polydiene via copolymerization using neodymium catalyst
Ryo Tanaka,Yuina Kuwabara,Yuushou Nakayama,Takeshi Shiono

10:50 2C05 Highly Selective Palladium Catalysts for Precise Synthesis of π-Conjugated Polymers via Direct Arylation Polymerization (DArP)
Masayuki Wakioka

Tomoya Higashihara, presiding

11:15 2C06 Synthesis of end-functionalized poly(substituted methylene)s: C1 polymerization of diazoacetates initiated by Pd complexes with *N*-substituted maleimide ligands
Hiroaki Shimomoto,Hinano Hayashi,Kyoka Aramasu,Tomomichi Itoh,Eiji Ihara

11:40 2C07 Attempt of polycondensation control of amino acids by continuous monomer addition method
Tsuyoshi Ando,Keita Shiraki,Hiroharu Ajiro

Ryo Tanaka, presiding

12:55 2C08 Synthesis and characterization of catalysts for the living polymerization of substituted acetylenes
Shiori SAKAMOTO,Tsuyoshi TANIGUCHI,Yoko SAKATA,Shigehisa AKINE,Tatsuya NISHIMURA,Katsuhiro MAEDA

13:20 2C09 Terminal Modification of Poly(quinolylene-2,3-methylene) using the palladium complex at the Growth End
Naoya Kanbayashi,Manami Narukawa,Taka-aki Okamura,Kiyotaka Onitsuka

13:45 2C10 Development of Precision Anionic Polymerizations Based on C-H Bonds for Precision Polymer Synthesis
Mineto Uchiyama,Natsumi Ohira,Konomi Yamashita,Masaya Fujita,Masami Kamigaito

Katsuhiro Maeda, presiding

14:10 2C11 Synthesis of Block Copolymers with the Epoxide/Carbon Dioxide or Epoxide/Cyclic Anhydride Alternating Copolymers
Minori Ida,Yuu Nakabayashi,Koji Nakano

14:35 2C12 Syntheses of Block Copolymers Utilizing Carbonylation of Growing Chain End in Pd-Catalyzed Polymerization
Kohsuke Ota,Nanako Kimura,Daisuke Takeuchi

Koji Nakano, presiding

15:25 2C14 Visualization of mechanoradicals generated by polymer chain scission using fluorescent molecular probes
Takumi Yamamoto,Daisuke Aoki,Hideyuki Otsuka

15:50 2C15 Chirality-Switchable Helical Polymer Ligand Bearing 2,2'-Bipyridine Pendants for Enantioconvergent Cu-Catalyzed Intramolecular C-C Coupling of α-Aminoalkylboronates
Takeshi Yamamoto,Yukako Yoshinaga,Michinori Suginome

16:15 2C16 Dual modification of a diblock copolymer for structural tuning and crosslinking to obtain immobilized structure
Kodai Nagashima,Yuta Nabae,Teruaki Hayakawa

16:40 2C17 Synthesis of bipyridine-containing conjugated polymers bearing optically active amide groups and control of the higher order structures utilizing metal-coordination
Taichi Sotani,Mio Hosotani,Mai Otoba,Hiromitsu Sogawa,Fumio Sanda

Hiromitsu Sogawa, presiding

17:05 2C18 Mechanochemistry of Bis(9-aryl-9-fluorenyl) Peroxide Derivatives in Cross-Linked Polymers
Yi LU,Hajime SUGITA,Koichiro MIKAMI,Daisuke AOKI,Hideyuki OTSUKA

17:30 2C19 Synthesis and post-polymerization modification of cyclic olefin polymers containing cyclopropane ring
Kazuki Hase,Shin-ichi Matsuoka,Masato Suzuki

17:55 2C20 Synthesis of Janus-shaped single chain nanoparticle by one-shot intramolecular crosslinking of block copolymer
Takuya Isono,Kodai Watanabe,Noya Kaizawa,Kenji Tajima,Toshifumi Satoh

Wed. Sep 8

S3. Frontiers in Polymer Synthesis Developed by Key Reactions and Molecular Designs

Takuya Isono, presiding

9:10 3C01 Synthesis and Properties of Iodine-Containing Hyperbranched Polyacetal Photoresist Materials for Extreme Ultraviolet
Yutaro Iwashige,Hiroto Kudo

9:35 3C02 Synthesis of novel main-chain degradable vinyl polymer by introducing trigger-responsive comonomer.
Sota Yamamoto,Tomohiro Kubo,Kotaro Satoh

10:00 3C03 Synthesis and properties of helical polyphenylacetylenes having alkylimidazolium groups in the side chains.
Ryoma Ozawa,Takashi Kaneko,Toshiki Aoki,Masahiro Teraguchi

10:25 3C04 Synthesis and application of decrosslinkable epoxy cured materials using regioisomers of anthracenecarboxylic acid dimers
Kinuka Tano,Eriko Sato

Room D

Mon. Sep 6

S4. Development of Element-block Materials for The Bright Future

9:50	1DSO	Introductory Remarks S4 Koji Takagi,Hiroaki Imoto
		Yohei Adachi, presiding
10:00	1D03	Synthesis of Stimuli-Responsive Fluorescence Dyes and Their Application for Detection of Enzymatic Activity and Biological Thiols Koji Miki,Huiying Mu,Masahiro Oe,Kouichi Ohe
10:25	1D04	Bulk photovoltaic effect in ferroelectric oligothiophene liquid crystals doped with fullerene derivative Masahiro Funahashi
		Koji Miki, presiding
10:50	1D05	Conjugated polymers consisting of aromatic building units containing tricoordinate boron Yohei Adachi,Joji Ohshita
11:15	1D06	Development of aryl-modified o-carborane presenting aggregation-induced luminochromism in film Kazuo Tanaka,Junki Ochi,Keisuke Wada,Kazushi Hashimoto
11:40	1D07	Substituent dependent alignment of asymmetrically substituted π-extended aza[5]helicenes Satoru Hiroto
		Kyosuke Isoda, presiding
12:55	1D08	Solution-phase synthesis of borophene-like sheet Tetsuya Kambe,Kimihisa Yamamoto
13:20	1D09	Versatile and selective use of azides toward element-block polymerization Hiroki Tanimoto,Koshiro Maegawa,Kodai Tanisawa,Ryo Adachi,Takenori Tomohiro
		Hiroki Tanimoto, presiding
13:45	1D10	Control of pH in surface modification of niobate nanosheets using a liquid-liquid biphasic system Yusuke Shimizu,Regis Guegan,Naokazu Idota,Takehiko Tsukahara,Taisei Nishimi,Yoshiyuki Sugahara
14:10	1D11	Stimuli-responsive behavior of functional room temperature liquid materials Kyosuke Isoda,Yuika Sato,Ayumi Ikenaga
14:35	1D12	Self-assembling crosslinking behavior of metal ions with metal-coordinated hydrophilic polymers and its application to the synthesis of nanomaterials Naoki Isobe,Daisuke Nagai,Yasuyuki Maki,Tatushi Inoue,Takeshi Yamanobe
		Ryoyu Hifumi, presiding
15:25	1D14	Synthesis and application of polysilsesquioxane having phosphoric acid as a ligand

Takahiro Gunji,Hiroshi Fujioka,Kosuke Ogimoto,Miyu Kajiyama,Kazuki Yamamoto

15:50 1D15 Synthesis and Optical Properties of Donor-Acceptor Polymers and Oligomers Composed of Silole/Germole and Tricoordinate Boron Units
Joji Ohshita,Keigo Kawakami,Keisuke Kondo,Adachi Yohei

16:15 1D16 Controlled Supramolecular Structures Based on the Formation of Nonclassical Hydrogen Bonds
Mitsuhiko Morisue,Miho Kawamishi

Mitsuhiko Morisue, presiding

16:40 1D17 Coating film properties of alkoxythiophene copolymers
Yuho Kagaya,Satoru Tsukada,Katsuyoshi Hoshino

17:05 1D18 Syntheses and physical properties of mixed-valence assembles consisting of polyoxometalate element-blocks and platinum complexes
Kazuhiro Uemura,Haruka Hasegawa,Atsushi Takamori

17:30 1D19 Robust and self-healable hybrids based on metal complexation with ligand-containing silsesquioxane nanoparticles
Yusuke Sasaki,hideharu Mori

17:55 1D20 Development of Phosphorus-Containing Aromatic Poly(ether) Materials Utilizing Features and Reactivity of Phosphine Sulfide Groups
Ryoyu Hifumi,Keisuke Ikeda,Shinsuke Inagi,Ikuyoshi Tomita

Tue. Sep 7

S4. Development of Element-block Materials for The Bright Future

Yoshiro Kaneko, presiding

9:10 2D01IL Putting Boron into Polymers: Applications in Catalysis and as Supramolecular Materials
Fernando Vidal,Huina Lin,James McQuade,Frieder Jaekle

Takahiro Kakuta, presiding

10:00 2D03 Synthesis and Electronic Properties of Organometallic Polymers Containing Dithienotitanacyclopentadiene Units
Alvin Tanudjaja,Ryoyu Hifumi,Shinsuke Inagi,Ikuyoshi Tomita

10:25 2D04 Monodispersed nitrogen-containing carbon capsules fabricated from conjugated polymer-coated particles via light irradiation
Keigo Oyama,Musashi Seike,Koji Mitamura,Seiji Watase,Kanade Matsui,Kenshin Yamamoto,Toyoko Suzuki,Taro Omura,Hideto Minami,Tomoyasu Hirai,Yoshinobu Nakamura,Syuji Fujii

10:50 2D05 Supramolecular assembly of hybrid metal porphyrin/ tomatine analogues with nanostructures and cytotoxic activities
Mayuko Fujitsuka,Kouta Araki,Keita Kuroiwa

Keita Kuroiwa, presiding

11:15 2D06 Exfoliation of Layered Silicate Compounds through Host-Guest Interaction
Takahiro Kakuta,Yudai Baba,Tomoki Ogoshi,Tada-aki Yamagishi

11:40 2D07 Preparation, aggregation, and inclusion behavior of double-chain polymer composed of hydrophilic and hydrophobic polymer chains
Katsufumi Soda,Yoshiro Kaneko

Shinobu Uemura, presiding

12:55	2D08	Fabrication of Ultrafine Nanostructures from Block Copolymers Consisting of Inorganic Polymer and Oligosaccharide Segments Taiki Nishimura,Satoshi Katsuhara,Chaehun Lee,J. Brian Ree,Takuya Yamamoto,Kenji Tajima,Takuya Isono,Toshifumi Satoh
13:20	2D09	Synthesis of aromatic ladder polymer utilizing coordination nanospaces Takumi Miura,Takashi Kitao,Takashi Uemura
	Takashi Kitao, presiding	
13:45	2D10	Preparation of the layered structures consisted of carbon nitrides and ionic molecules Shinobu Uemura,Taichi Harada,Qi Feng
14:10	2D11	Reversible Structural Change in Aligned Films of Amphiphilic Element-block Random Copolymer Kohei Amada,Wataru Kukai,Jun Matsui
14:35	2D12	Surface Segregation of Star-shaped Polyhedral Oligomeric Silsesquioxane in Polymer Matrix Daisuke Kawaguchi,Kentaro Yamamoto,Tatsuki Abe,Takeshi Komino,Masashi Mamada,Taizo Kabe,Chihaya Adachi,Kensuke Naka,Keiji Tanaka
	Tomokazu Umeyama, presiding	
15:25	2D14	Preparation of zirconia nanoparticle single-layer thin films and their functions Kimihiro Matsukawa,Yoshiyuki Tsukiyama,Hiroyuki Enomoto,Koji Mitamura,Mitsuru Watanabe,Seiji Watase
15:50	2D15	Development of hybrid films consisting of silicon/carbon-based layered materials and lignin nanoparticle Kazuhiro Shikinaka,Asami Suzuki,Yuichiro Otsuka
16:15	2D16	Stand-alone electrochemical analysis system based on bicontinuous microemulsion gel films Masashi kunitake,Hinako Hshimoto,Satoshi Watanabe,Tomoyuki Kamata,Dai Kato,Osamu Niwa,Taisei Nishimi,Eisuke Kuraya
16:40	2D17	Characteristics of Frequency-Modulated Element-Blocked Polymer Light-Emitting Diodes and Their Applications Hiroyoshi Naito
	Kazuhiro Shikinaka, presiding	
17:05	2D18	In-Plane Micro-Supercapacitors Using 2D Nanomaterial MXene as Element Block Akira Watanabe,Ashiqur Rahman,Hirotaka Ooi
17:30	2D19	Relationship between side chain and lustrous color in oligo-3-alkoxythiophene metallic lustrous films Ryota Saito,Satoru Tsukada,Katsuyoshi Hoshina
17:55	2D20	Electron-accepting Materials Containing Thienoazacoronene as an Element Block Tomokazu Umeyama

Wed. Sep 8

S4. Development of Element-block Materials for The Bright Future

Koji Takagi, presiding

9:10	3D01IL	Structures and Functions of Supramolecular Polymers Directed by Molecular Recognitions Takeharu Haino
		Takuya Matsumoto, presiding
10:00	3D03	Design and Synthesis of Luminescent Materials with 3D Structure of Polyhedral Oligomeric Silsesquioxane Masayuki Gon,Kazuo Tanaka,Yoshiki Chujo
10:25	3D04	Radical Copolymerization of Vinyl Boronate: Side-Chain Cooperative Catalyst Based on the Lewis Acidic Boron and Syntheses of Functional Copolymers via Post-Polymerization Transformation of Boron on the Main-Chain Hiroshi Makino,Tsuyoshi Nishikawa,Makoto Ouchi
		Masayuki Gon, presiding
10:50	3D05	Fabrication of Waterborne Polyurethane/Cellulose Nanofiber Composites with High Thermal Dimensional Stability Takuya Matsumoto,Nanami Yagi,Takashi Nishino
11:15	3D06	Synthesis of poly(carbon sulfide)s by electroreductive polymerization of carbon disulfide and their battery performance Yuma Terashima,Yoshimasa Matsumura,Bungo Ochiai
11:40	3D07	Themoresponsive Behavior of Optical and Electrical Properties of Liquid Crystalline Polymer-Gold Nanoparticle Hybrids Takashi Miyata,Hiroki Tanaka,Akifumi Kawamura
		Yoshimasa Matsumura, presiding
12:55	3D08	Glass formation of luminescent Eu(III) coordination polymers with amide groups Joe Hayashi,Sunao Shoji,Yuichi Kitagawa,Koji Fushimi,Yasuchika Hasegawa
13:20	3D09	Luminescence properties of Eu-doped Si-Al-O-N glasses prepared by the sol-gel process Shunsuke Watanabe,Yuta Osawa,Shingo Machida,Ken-ichi Katsumata,Atsuo Yasumori,Hiroyo Segawa
		Hiroaki Imoto, presiding
13:45	3D10	Synthesis of phosphonic-acid-modified polysilsesquioxane and its application to a flexible self-cleaning film Miyu Kajiyama,Takahiro Gunji,Kazuki Yamamoto
14:10	3D11	Effect of hybridized polymer material on luminescence of iridium complex Yuki Kuroda,Masashi Nakamura,Koji Mitamura,Mitsuru Watanabe,Masahiro Muraoka,Araki Masuyama,Seiji Watase
14:35	3D12	Synthesis of Polysilsesquioxane Containing Hydroxyl Groups and Application for Antifogging Materials Tetsuya Sugimoto,Takashi Hamada,Tetsuya Maeda,Daiji Katsura,Susumu Mineoi,Joji Ohshita
		Yuichi Kitagawa, presiding
15:25	3D14	Synthesis and Application for Circularly Polarized Luminescence of Planar Chiral Element-Blocks Yasuhiro Morisaki,Nanami Miki,Genki Namba,Ryo Inoue
15:50	3D15	Synthesis of organoarsenic conjugated polymers and their unusual properties Kensuke Naka,Chieko Yamazawa,Susumu Tanaka,Hiroaki Imoto

Room E

Mon. Sep 6

S1. Frontier in Polymer Chemistry Based on Metal-free Catalyst

9:50	1ESO	Introductory Remarks S1 Hiroki Iida
		Takuya Isono, presiding
10:00	1E03	Synthesis of basic amino acid-containing polypeptides by chemoenzymatic polymerization Kayo Terada,Taichi Kurita,Joan Gimenez-Dejoz,Kousuke Tsuchiya,Keiji Numata
10:25	1E04	Synthesis of hydrophobic polysaccharides by enzymatic polymerization Shogo Abe,Kazuya Yamamoto,Jun-ichi Kadokawa
10:50	1E05	Enzymatic Synthesis and Characterization of Cellulosic Block Co-oligomers Kai Sugiura,Toshiki Sawada,Hiroshi Tanaka,Takeshi Serizawa
		Hiroki Iida, presiding
11:15	1E06IL	Precision Enzymatic Synthesis of Amylose Analog Polysaccharides by Glucan Phosphorylase Catalysis Jun-ichi Kadokawa
12:55	1E08	Helical Chirality Induction of Macromolecular Nucleophilic Catalysts with Protected Natural Amino Acids: Application to Asymmetric Acyl Rearrangement Naoto Ariki,Takaya Fujie,Kana Omoto,Takeshi Yamamoto,Michinori Suginome
13:20	1E09	Synthesis of binaphthyl-based helical polymers bearing cinchona alkaloid moieties for asymmetric organocatalysis application Hiroya Sasaki,Naoki Haraguchi,Shinichi Itsuno
13:45	1E10	Design of polymer-immobilized cis-diphenylprolinol derivatives and their application to asymmetric reactions Naoki Haraguchi,Rina Watanabe,Hidenori Ochiai,Akira Nishiyama,Shinichi Itsuno
		Yuta Nabae, presiding
14:10	1E11	Ionically polymer-immobilized MacMillan catalyst for continuous flow asymmetric reaction Md Azgar Ali,Naoki Haraguchi
14:35	1E12	Continuous Flow Synthesis of porous polymer monolith with organocatalyst Yoshiko Miura,Haruka Hattori,Hikaru Matsumoto,Seiya Nonaka,Masanori Nagao,Yu Hoshino
		Takeshi Yamamoto, presiding
15:25	1E14	On-demand design of chiral guanidine catalysts utilizing noncovalent modification and immobilization onto polymer Yukihiro Arakawa,Aya Ogawa,Momoko Hara,Keiji Minagawa,Yasushi Imada
15:50	1E15	Creation of Novel Catalytic Strategy for Asymmetric Synthesis with Supramolecular Approach Utilizing Protein as Chiral Nanoreactor

Nagisa Kanazawa,Misaki Kawai,Masaki Nishijima,Tadashi Mori,Yasuyuki Araki,Takehiko Wada

Yukihiro Arakawa, presiding

16:15 1E16 Development of Heterogeneous Organocatalysts Immobilized onto Chitin and Chitosan Derivatives and Their Catalytic Activity
Hiroki Iida,Hayaki Okai,Daichi Katsube,Marina Oka,Takuya Sakai,Mirai Watanabe

16:40 1E17 Synthesis of a N-doped carbon by carbonizing polyimide nano-particles for electrocatalytic oxygen reduction
Yuta Nabae,Yun Wu,Shinsuke Nagata,Kazushige Hori,Teruaki Hayakawa

Naoki Haraguchi, presiding

17:30 1E19IL Polymer supported ionic liquid-like phases in metal-free catalysis
Santiago V. Luis,Eduardo García-Verdugo,Belèn Altavai,RaÚl Porcar

Tue. Sep 7

S1. Frontier in Polymer Chemistry Based on Metal-free Catalyst

Mineto Uchiyama, presiding

10:00 2E03 Ring-opening polymerization of cyclic esters catalyzed by resin-supported alkali metal carboxylates
Itsuki Takahashi,Satoru Takagi,Yoshinobu Mato,Takuya Yamamoto,Takuya Isono,Kenji Tajima,Toshifumi Satoh

10:25 2E04 Alkali Metal Carboxylate as an Efficient and Simple Catalyst for Ring-Opening Polymerization of Epoxides
Tianle Gao,Xiaochao Xia,Takuya Isono,Kenji Tajima,Toshifumi Satoh

10:50 2E05 Sequentially and Architecturally Controlled Multiblock Copolymers using Alkali Metal Carboxylate-Catalyzed Polymerization System
Xiaochao Xia,Ryota Suzuki,Tianle Gao,Takuya Isono,Toshifumi Satoh

Toshifumi Satoh, presiding

11:15 2E06 Acridinium Salts as Photoredox Organocatalysts for Photocontrolled Metal-Free Living Cationic and Radical Polymerizations: Control of Different Polymerizations with Single Catalyst
Marina MATSUDA,Mineto UCHIYAMA,Masami KAMIGAITO

11:40 2E07 Synthesis of Methacrylate and Acrylate Polymers Containing BOC Protecting Groups and Their Functionalization by Deprotection
Kaito Osada,Jing Chu,Tatsuya Sakamoto,Yasuhito Suzuki,Akikazu Matsumoto

Akinori Takasu, presiding

12:55 2E08 Precise Synthesis of Side-Chain-Functionalized Linear Polysiloxanes by Ring-Opening Polymerization of Functional Cyclotrisiloxanes Using Guanidine Catalysts
Keita Fuchise,Kazuhiko Sato,Masayasu Igarashi

13:20 2E09 Screening glycopolymer for detection of Cholera toxin using aqueous PET-RAFT polymerization
Takeshi Uemura,Masanori Nagao,Yu Hoshino,Yoshiko Miura

Masanori Nagao, presiding

13:45	2E10	Synthesis and Evaluation of Bottlebrush Polymers with Mechanochromic Properties Riho Shibata,Takuma Watabe,Daisuke Aoki,Hideyuki Otsuka
14:10	2E11	New development in synthesis of cyclic vinyl polymer via ring-closing reaction without need of highly diluted condition Yuki Muramatsu,Kota Oto,Hiroki Ito,Hirotake Yato,Akinori Takasu
14:35	2E12	Polymerization by Organic Lewis Acid Catalysts including Heavy Elements Koji Takagi,Hiroto Murakata,Nao Sakakibara,Tomoki Hasegawa,Kanami Okamura

S2. Well-defined Functional Polymers Prepared by Precision Polymerization

Mineto Uchiyama, presiding

16:15	2E16	Novel tandem polymerization and cationic ring-opening polymerization based on cyclotrimerization of two aldehydes and one vinyl ether for sequence regulated polymer Tadashi Naito,Arihiro Kanazawa,Sadahito Aoshima
16:40	2E17	Cationic Alternating Copolymerization of Vinyl Monomers and Conjugated Aldehydes: Selective Synthesis of Backbone-degradable Polymers Towards Precise Control of Monomer Sequence and Chain-end Functionalization Tomoki Nara,Arihiro Kanazawa,Sadahito Aoshima
17:05	2E18	Polymer synthesis and analysis of halogen bonding vinyl ether monomers: Towards polymer self-assembly Takanaga Suzuki,Kira Landenberger

Arihiro Kanazawa, presiding

17:30	2E19	Anionic polymerizability of 2-isopropenylthiophene derivatives Yuki Kurishiba,Raita Goseki,Takashi Ishizone
17:55	2E20	Novel Living Anionic Polymerization Using Active Proton for Reversible Reactions at Propagating Chain End Natsumi OHIRA,Mineto UCHIYAMA,Masami KAMIGAITO

Room F

Mon. Sep 6

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Shigeki Habaue, presiding

10:00	1F03	A simple model for polymer-gel elasticity in statistical mechanics Naoyuki Sakumichi,Nobu C. Shirai
10:25	1F04	Coarse-Grained Molecular Dynamics Simulation of Biaxial Extension of Chemical Gels and Slide-Ring Gels Haru Shinohara,Takeyoshi Masumoto,Kosuke Aomura,Yusuke Yasuda,Koichi Mayumi,Hideaki Yokoyama,Kozo Ito

Koichi Mayumi, presiding

10:50	1F05	Molecular Simulation of Structure Formation of Polymer Gels Synthesized by Radical Polymerization Tsutomu Furuya,Tsuyoshi Koga
11:15	1F06	Universality of osmotic pressure of polymer gels based on star-branched polymer solutions Takashi Yasuda,Naoyuki Sakumichi,Takamasa Sakai
11:40	1F07	Formation and Control of Network Structure in Poly(Lactic Acid) Gel Yasuhiro Matsuda,Shun-ich Ishima,Atsushi Takahara
		Takamasa Sakai, presiding
12:55	1F08	Rheological Properties of Poly(vinyl alcohol) Gels with Chemical/Transient Cross-links Takuro Taniguchi,Kenji Urayama
13:20	1F09	In Situ X-ray Scattering Investigation of PI Ionomers with Dynamic Network under Uniaxial Deformation Shinichiro Hamajima,Masatoshi Tsunoda,Yohei Miwa,Shoichi Kutsumizu,Hideaki Takagi
13:45	1F10	Control of Network Rearrangement in Ionic Silicone Elastomer with Dynamic Crosslinks Takehito Ohya,Yohei Miwa,Shoichi Kutsumizu
		Takuya Ohzono, presiding
14:10	1F11	Material Design for High-Strength Co-continuous Network Polymers (CNP) Using Epoxy Monolith. Ren Tominaga,Yasuhito Suzuki,Yoshihiro Takeda,Masaru Kotera,Akikazu Matsumoto
14:35	1F12	Stretch-induced two-step fluorescence color change of polyurethane elastomer incorporating a flapping force probe Kensuke Suga,Takuya Yamakado,Shohei Saito
		Kenji Urayama, presiding
15:25	1F14	Synthesis of biocompatible elastomer microspheres crosslinked with rotaxane and formation of latex films Yuma Sasaki,Haruka Minato,Takuma Kureha,Kazuko Nakazono,Toshikazu Takata,Daisuke Suzuki
15:50	1F15	Effect of Proteins on Vulcanization of Natural Rubber Seiichi Kawahara,Skihiro Sato,Yoshimasa Yamamoto
16:15	1F16	Study on the time-evolution of zinc compounds formed in the vulcanization process Yuki Watanabe,Takenaka Mikihito,Shotaro Nishitsuji
		Seiichi Kawahara, presiding
16:40	1F17	Effect of Elongation Mode on the Mechanical Behavior of Strain-Induced Crystallizable Elastomers Ryosuke Osumi,Thanh-Tam Mai,Ruito Tanaka,Shinichi Sakurai,Katsuhiko Tsunoda,Kenji Urayama
17:05	1F18	Effect of network structures on strain-induced crystallization of peroxide cross-linked isoprene rubbers Shoko Yamakawa,Kosuke Miyaji,Yuko Ikeda
17:30	1F19	Impact of crystallites on nematic elastomers Takuya Ohzono,Hiroyuki Minamikawa,Emiko Koyama,Yasuo Norikane

Tue. Sep 7

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Yasuhiro Matsuda, presiding

9:10	2F01	Wide-angle X-ray Scattering from Aqueous Poly(*N*,*N*-diethylacrylamide) Solutions Daichi Ida,Keiji Numata
9:35	2F02	Dilute solution properties of polyvinyl alcohol alkyl carbamates Shodai Miura,Akiyuki Ryoki
10:00	2F03	Effect of difference in D-form content of poly(D,L-lactic acid) on molecular conformation Kayo Ueda,Natsuki Fukuta,Shou Kasuga,Yoshinori Suzuki,Takahiro Watanabe,Moriya Kikuchi,Seigou Kawaguchi

Daichi Ida, presiding

10:25	2F04	Thermal denaturation and renaturation behavior of xanthan under different pH Yasuhiro Matsuda,Ryoga Saiki,Kana Kurimoto,Kazuto Yoshiba
10:50	2F05	Branched Polymers with New Architectures Kazumi Suematsu
11:15	2F06	Partition of Block Copolymers in Phase-Separating Polymer Solutions Takahiro Sato,Itaru Asano
11:40	2F07	Phase Separation Behavior and Complex Formation Ability of Highly-branched Cyclic Dextrin Derivatives in Aqueous Solution Akihito Kobayashi,Ken Terao,Shinichi Kitamura

Katsufumi Tanaka, presiding

12:55	2F08	Solution properties of poly(ethylene oxide)-poly(propylene oxide) alternating multiblock copolymers in water Kenji Sakanaya,Yusuke Sanada,Keisuke Watanabe,Yukiteru Katsumoto
13:20	2F09	Preparation and characterization of two-dimensional sheet-shaped polymers Yuya Doi,Mitsuo Hara,Takahiro Seki,Takashi Uneyama,Yuichi Masubuchi
13:45	2F10	Rheological Behavior of Hydrogen Bonding Entangled Polymer / Oligomer Blend Osamu Urakawa,Ayaka Yasue,Ryota Kashoji,Tadashi Inoue

Osamu Urakawa, presiding

14:10	2F11	Rheology of Conjugated Polymers with Bulky and Flexible Side Chains Akira Shinohara,Takashi Nakanishi
14:35	2F12	Flow Behavior and Microstructure of Electro-Rheological Nano-Suspensions with a Small Amount of Water Molecules Katsufumi Tanaka,Izumi Tateisi,Yuki Maenaka,Lin Xin,Midori Takasaki,Haruki Kobayashi

Shinji Tanaka, presiding

15:25	2F14	Structural Analysis of Symmetrically Substituted Poly(diphenylacetylene) Derivatives Bearing Optically Active Substituents Through an Amide Linkage Mai NOZAKI,Daisuke HIROSE,Tatsuya NISHIMURA,Sawa ISHII,Go WATANABE,Eiji YASHIMA,Katsuhiro MAEDA
15:50	2F15	Structural Analysis of Poly(diphenylacetylene)s Synthesized with Tantalum Catalysts

Shingyo Sueyoshi,Tsuyoshi Taniguchi,Saki Tanaka,Hitoshi Asakawa,Tatsuya Nishimura,Katsuhiro Maeda

16:15 2F16 Structural Analysis and Formation Mechanism of Poly(diphenylacetylene)s Obtained by Low-Valent Tungsten-Catalyzed Polymerization of Diphenylacetylenes
Mami Miyairi,Tsuyoshi Taniguchi,Saki Tanaka,Hitoshi Asakawa,Syo Kasuga,Moriya Kikuchi,Seigou Kawaguchi,Tatsuya Nishimura,Katsuhiro Maeda

Tsuyoshi Taniguchi, presiding

16:40 2F17 Structural characterization of end-groups of poly(p-phenylene)sulfide by solid-state DNP-NMR spectroscopy
Shinji Tanaka,Shingo Takada,Toru Suzuki,Yumiko Nakajima,Kazuhiko Sato

17:05 2F18 Analysis of the heat aging behavior of polyamide containing iron stabilizer by soft X-ray emission spectroscopy.
Tomoyo Okumura,Takashi Ono,Kouji Satou,Yuki Ishiyama,Shunsuke Mieda,Yohei Sato,Masami Terauchi

17:30 2F19 Fluorescence Polymers that are Controllable by Hydrostatic Pressure
Kotoe Nakasha,Gaku Fukuhara

Wed. Sep 8

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Shoichi Kubo, presiding

9:10 3F01 Polymerization of siloxanyl terminals of cubic liquid-crystalline hydrogen-bonding complexes
Yuto Ogasawara,Yohei Miwa,Ryunosuke Kani,Kazumasa Funabiki,Shoichi Kutsumizu

9:35 3F02 Shape classification of twisted nematic elastomer ribbons
Atsushi Joto,Haruka Doi,Valerio Varano,Luciano Teresi,Kenji Urayama

10:00 3F03 Gliding anchoring of liquid crystal on cross-linked bottlebrush film
Yuji Kinose,Keita Sakakibara,Osamu Sato,Yoshinobu Tsujii

Shoichi Kutsumizu, presiding

10:25 3F04 Synthesis of Disubstituted Polyacetylene with Liquid crystallinity and Fluorescence, and Properties of Electromagnetic Characteristics
Kyoka Komaba,Masashi Otaki,Reiji Kumai,Shigeki Nimori,Hiromasa Goto

10:50 3F05 Effect of molecular diffusion on photopolymerization behavior of an anisotropic methacrylate monomer
Takuto Ishiyama,Yoshiaki Kobayashi,Shoichi Kubo,Atsushi Shishido

Room G

Mon. Sep 6

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Hiroki Uehara, presiding

10:00	1G03	Local Structure Analysis of Polymer Spherulites by Nanodiffraction Imaging Hironori Marubayashi,Shusuke Kanomi,Koichi Azuma,Hiroya Satoh,Tomohiro Miyata,Hiroshi Jinnai
10:25	1G04	Synthesis and spherulitic growth of cyclic poly(p-dioxanone) by ring expansion polymerization Ryogo Ono,Shinichi Yamazaki,Hironori Atarashi,Kunio Kimura
10:50	1G05	Crystallization behavior of star-shaped polylactides distinguishing the chain directions Shota Yamazaki,Mahoko Harada,Osamu Haba,Kazuki Fukushima,Jiro Kumaki

Hironori Marubayashi, presiding

11:15	1G06	Kinetics of density fluctuations during the early stage of crystallization in syndiotactic polypropylene IV Takashi Konishi,Tadokoro Daisuke,Fukao Koji,Miyamoto Yoshihisa
11:40	1G07	Isothermal and non-isothermal examinations of the melting kinetics of polyethylene Akihiko Toda,Rene Androsch,Christoph Schick

Shinichi Yamazaki, presiding

12:55	1G08	The analysis of the growth rate of poly(trimethylene terephthalate) Daisuke Tadokoro,Takashi Konishi,Fukao Koji,Miyaji Hideki,Teppei Yoshida,Yoshihisa Miyamoto
13:20	1G09	Influence of the uncrystallizable 3-hydroxyhexanoate Content on Melt-isothermal Crystallization Kinetics of Microbial Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) Toan Van Nguyen,Toshiteru Nagata,Kosei Noso,Kenshiro Kaji,Hiroyasu Masunaga,Taiki Hoshino,Takaaki Hikima,Shinichi Sakurai,Kenta Yamamoto,Yuta Miura,Takashi Aoki,Hideki Yamane,Sono Sasaki
13:45	1G10	Dynamics of molecules confined in the e-phase of syndiotactic polystyrene Ryosai Inoue,Osamu Urakawa,Tadashi Inoue

Akihiko Toda, presiding

14:10	1G11	An in-situ Raman spectroscopic study on morphology during heating and cooling in mesomorphic isotactic polypropylene Ryota Midorikawa,Misato Nabata,Yusuke Hiejima,Koh-hei Nitta
14:35	1G12	Relationship between α1-α2 Phase Transition and Reorganization of Isotactic Polypropylene Crystals: Melting and Recrystallization Misako Inagaki,Takahiro Miyoshi,Koji Nozaki,Koji Yamada

Tetsuya Uchida, presiding

15:25	1G14	Effect of crystallization condition on phase formation and transformation of &pai;-conjugated supramolecule Tomoki Hidai,Masaki Kakiage,Hiroki Uehara,Takeshi Yamanobe,Kazumasa Suzuki,Shin-ichiro Kato
15:50	1G15	Fabrication of Elastic Single Crystals of a pai-conjugated small molecule in an ionic Liquid of capillaries Keigo Ono,Satoshi Watanabe,Shotaro Hayashi,Masashi Kunitake
16:15	1G16	Single crystallization of organo lead halide perovskite based on lower-critical solution temperature

Satoshi Watanabe,Shun Inouti,Tenuu Date,Masashi Kunitake

Masashi Kunitake, presiding

16:40	1G17	Crystallization of Single-Walled Carbon Nanotubes from a Dilute Solution Naoya Tsugawa,Satoru Yoshida,Natsuki Tohnai,Tetsuya Uchida
17:05	1G18	A Reactive Molecular Dynamics Study on Structural Change of Damaged Hydrocarbons in a Vacuum Haolun Li,Susumu Fujiwara,Hiroaki Nakamura,Tomoko Mizuguchi,Ayako Nakata,Tsuyoshi Miyazaki,Shinji Saito,Wataru Sakai
17:30	1G19	Wetting and Drying Process Observed by Pulse Neutron Small-angle Scattering Satoshi Koizumi,Mitsuki Tanaka,Yohei Noda,Tomoki Maeda,Masako Shinozuka,Mutsuko Nakano
17:55	1G20	Spatial distribution of the amorphous region constrained by polymer crystals Mizuki Kishimoto,Mikihito Takenaka,Hitoshi Iwabuki

Tue. Sep 7

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Shogo Nobukawa, presiding

9:10	2G01	Microphase Separation and Nanostructured Thin Films of Random Copolymers: Effects of Crystalline or Hydrogen-Bonding Units on Order-Disorder Transition Takaya Terashima,Takaya Ikami
9:35	2G02	Microphase Separation of Random Copolymers via Pendant Design Sahori Imai,Makoto Ouchi,Takaya Terashima
10:00	2G03	Ordered Structure of Binary Random Copolymer Formed in an Aqueous Environment II Katsuhiro Yamamoto,Tatsuya Imai,Mihiro Inukai,Eri Ito,Yoshihito Inai
10:25	2G04	Effects of crosslinking on low-temperature crystallinity and mobility of NR/BR rubber Toshimi Nakaya,Kazuma Kobayashi,Yuya Miyake,keiko Otake,Hiroyuki Kai,Joji Ohshita

Katsuhiro Yamamoto, presiding

10:50	2G05	Morphology and mechanical properties of PMMA/EVOH blends containing metal salt Shogo Nobukawa,Mayu Horada,Katsuhiro Inomata
11:15	2G06	Correlation analysis of degree of crosslinking with degree of orientation and thermal expansion of cross-linkable polyimide prepared from lyotropic liquid crystalline precursor Yuta Ohsako,Shohei Hara,Shinji Ando,Ryohei Ishige,Tomoya Higashihara
11:40	2G07	USAXS analysis of self-assembled structures of polymer-brush-modified nanoparticles in ionic liquid Yohei Nakanishi,Ryohei Ishige,Hiroki Ogawa,Keita Sakakibara,Kohji Ohno,Toshiji Kanaya,Mikihito Takenaka,Yoshinobu Tsujii

Ryohei Ishige, presiding

12:55	2G08	Study of submicron-scale heterogeneous structures of crystalline polymers Masato Arakawa,Mizuki Kishimoto,Yohei Nakanishi,Mikihito Takenaka
13:20	2G09	Universality of strain-induced density fluctuations in glassy materials Shuta Aokura,Mikihito Takenaka
13:45	2G10	Melt drawability of ultra-high molecular weight polyethylene via periodic orientation/relaxation process Kenta Oomori,Masaki Kakiage,Hiroki Uehara,Takeshi Yamanobe

Mikihito Takenaka, presiding

14:10	2G11	Multiaxial Analysis of Soft Elasticity of Liquid Crystal Elastomers Suzuka Okamoto,Asaka Takebe,Haruki Tokumoto,Kazutaka Kamitani,Ken Kojio,Atsushi Takahara,Kenji Urayama
14:35	2G12	Effects of morphology in polypropylene damaged by falling weight impact tests Ryohei Ippitsu,Yusuke Hiejima,Koh-hei Nitta

Masaki Kakiage, presiding

15:25	2G14	Probabilistic analysis of tensile fracture behavior at poly(methyl methacrylate) Naoya Funasaki,Asae Ito,Koh-hei Nitta
15:50	2G15	Mechanical properties of poly (methyl methacrylate) with various lithium salts Arisa Shin,Asae Ito,Koh-hei Nitta
16:15	2G16	Temporal analysis of surface bending strain in polymer films Yuhao Zhang,Ryo Taguchi,Masayuki Kishino,Norihisa Akamatsu,Shoichi Kubo,Atsushi Shishido
16:40	2G17	All-atomistic molecular dynamics study of the glass transition phenomenon of amorphous polymers Zhiye Tang,Susumu Okazaki

Wed. Sep 8

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Takashi Konishi, presiding

9:10	3G01	DNP-SANS investigation of water distribution in hair fiber microstructure Yohei Noda,Satoshi Koizumi,Tomoki Maeda,Takumi Inada,Mitsuki Tanaka,Aya Ishihara,Hiroyuki Inoue
9:35	3G02	Micro-phase Separated Structure in Block Copolymer Analyzed by Small-angle Neutron Scattering with Dynamic Nuclear Polarization II Katsuhiro Yamamoto,Kensei Ando,Satoshi Koizumi,Yohei Noda,Tomoki Maeda
10:00	3G03	The structual analysis of polyvinyl alchol including water by DNP-SANS Yohei Noda,Satoshi Koizumi
10:25	3G04	New method of Spin polarization contrast variation with neutrons - current status and future plan- Satoshi Koizumi,Yohei Noda,Tomoki Maeda,Takumi Inada

Yohei Noda, presiding

10:50 3G05 Structure Evaluation of Carbon Fiber Reinforced Composite during Fatigue Testing by small/wide Angle X-ray Scattering
Masatoshi Todaka,Kakeru Obayashi,Ken Kojio

11:15 3G06 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

11:40 3G07 Theoretical Study on Pressure-Induced Phase Transition of Baroplastics
Hiroki Degaki,Tsuyoshi Koga

Ken Kojio, presiding

12:55 3G08 Quasicrystal and Its Approximant of Complex Packing of Spherical Microdomains in Block Copolymers
Katsuhiro Yamamoto,Hideaki Takagi

13:20 3G09 Construction of double gyroid structure from AB and ABC block copolymers with various molecular weight and the transformation into nanoporous structure
Ayane Kitahara,Tsuyoshi Orido,Atsushi Takano,Yushu Matsushita

13:45 3G10 Helical Cylinders formed from ABAC Tetrablock Terpolymers and Terpolymer/Homopolymer Blends.
Tsuyoshi Orido,Atsushi Takano,Yushu Matsushita

Atsushi Takano, presiding

14:10 3G11 Dispersion State of Silica with Different Shapes and Viscoelastic Properties of the Polymer Composite
Masayuki Miyamoto,Yoshihisa Fujii,Naoya Torikai

14:35 3G12 Nanocellulose/polyethylene nanocomposite sheets prepared from an oven-dried nanocellulose by elastic kneading
Ken-ichi Niihara,Toru Noguchi,Rie Iwamoto,Genichi Matsuda,Morinobu Endo,Akira Isogai

Naoya Torikai, presiding

15:25 3G14 Energetic and entropic elasticity of natural rubber with nanomatrix structure
Yoshimasa Yamamoto,Kota Endo,Seiichi Kawahara

15:50 3G15 Mechanism of Mechanical Relaxation and Toughening for Epoxy Resins with Polyrotaxanes
Akihiro Hanafusa,Shota Ando,Tetsuharu Yuge,Satoru Ozawa,Masakazu Ito,Ryuichi Hasegawa,Koichi Mayumi,Kohzo Ito

Room H

Mon. Sep 6

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Hideaki Yokoyama, presiding

10:00 1H03 Precise and Dynamic Random Copolymer Micelles: Elucidation of Chain Exchange Behavior by Small-Angle Neutron Scattering
Masayuki Hibino,Shin-ichi Takata,Kosuke Hiroi,Makoto Ouchi,Takaya Terashima

10:25 1H04 Molecular simulation of micelle formation and self-sorting of amphiphilic copolymers
Nami Sato,Tsuyoshi Koga

10:50 1H05 Colloidal Particle Morphology in Aqueous Dispersions of a Higher Alcohol−Surfactant Mixture
Kaoru Yagishita,Takahiro Sato

Takahiro Sato, presiding

11:15 1H06 Study on Shape Change and Thermo-Responsivity of PIC Micelles with Sulfobetaine as a Shell
Dongwook Kim,Hideki Matsuoka,Yoshiyuki Saruwatari

11:40 1H07 Effect of disk-shaped deformation of spherical hollow polymer particles on hydrodynamic properties
Tomoya Hirano,Tatsuo Taniguchi,Takashi Karatsu

Takaya Terashima, presiding

12:55 1H08 Regulation of Stimuli-responsiveness of Capsule Particles Prepared by Interfacial Photocrosslinking of Spherical Polymer Particles
Yukiya Kitayama,Atsushi Harada

13:20 1H09 Surface graft polymerization and into kinetics of silica capsules containing radical initiator group on their surface
Yuichi Iki,Reiko Saito

Reiko Saito, presiding

13:45 1H10 Preparation of porous polymeric membranes by miniemulsion templating method for structural coloration
Haruna Sumida,Yusuke Sugaya,Yuuka Fukui,Keiji Fujimoto

14:10 1H11 Origin Elucidation of Spherical Particulation that Deteriorates Thixotropic Property of Diamide-Based Additive Having Two-Hydrocarbons and Proposal of Its Suppressed Technology
Yuki MASHIYAMA,Haruka MARUYAMA,Atsuhiro FUJIMORI

14:35 1H12 Study on the Improvement of Dispersibility and Orientation Control of Fluorocarbon-Modified Single-Walled Carbon Nanotubes in a Fluorinated Polymer Matrix
Takuto HAYASAKI,Yuna YAMADA,Kai XU,Ahmed A. ALMARASY,Atsuhiro FUJIMORI

Yuji Higaki, presiding

15:25 1H14 On-surface synthesis of graphene nanoribbon at low temperature
Takahiro Kojima,Karan Patel,Shunpei Nobusue,Hiroshi Sakaguchi

15:50 1H15 Air/liquid interfacial synthesis of electrically conductive coordination polymer nanosheets -synthetic conditions influencing orientation and morphology-
Takashi Ohata,Akihiro Nomoto,Takeshi Watanabe,Ichiro Hirosawa,Tatsuyuki Makita,Jun Takeya,Rie Makiura

16:15 1H16 Metal Capture and Desorption Abilities of Two Kinds of Films of Polyguanamine Derivatives with Cyclic Moiety and Bulky or Flexible Linkers
Junto YAMAGUCHI,Yuji SHIBASAKI,Astuhiro FUJIMORI

16:40 1H17 Regularity Maintenance Property of Multilayered Assemblies of Organic, Inorganic, and Their Alternating Nanoparticle Layers under Heating
Nanata KIKUCHI,Takato OHASHI,Atsuhiro FUJIMORI

Tatsuo Taniguchi, presiding

17:05 1H18 Interfacial Film Conformation and Its Molecular Arrangement of s-Triazine Derivatives Containing Three Fluorocarbons without Hydrophilic Group

		Haruka MARUYAMA,Momo MAEDA,Atsuhiro FUJIMORI
17:30	1H19	Regularity Maintenance Properties under Deformation of Kink-introduced Nano-mille-feuille Structure Derived from Interfacial Friction Effect Takato OHASHI,Nanata KIKUCHI,Atsuhiro FUJIMORI
17:55	1H20	Lyotropic Ordered Structure of Double Zwitterionic Block Copolymers Produced by Zwitterion-Specific Interactions Yuji Higaki,Masaya Takahashi,Akane Shimizu,Mai Nakamura

Tue. Sep 7

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

Atsuhiro Fujimori, presiding

9:10	2H01	Unique thickening growth of supramolecular nanosheet consisting of polyethylene glycol and α-cyclodextrin Haruki Kazumi,Shuntaro Uenuma,Hideaki Yokoyama,Kohzo Ito
9:35	2H02	Temperature and concentration dependence of the structure of pseudo-polyrotaxane nanosheet Naoki Ando,Shuntaro Uenuma,Hideaki Yokoyama,Kohzo Ito
10:00	2H03	Effect of the axis polymer composition on the formation of pseudo-polyrotaxane nanosheet Shuntaro Uenuma,Rina Maeda,Hideaki Yokoyama,Kohzo Ito
10:25	2H04	Adhesion kinetics and degradation properties of pseudo-polyrotaxane nanosheets Junshin Takeda,Kimika Endo,Shuntaro Uenuma,Hideaki Yokoyama,Kohzo Ito

Tomoyasu Hirai, presiding

10:50	2H05	Development of Silicone Compound-based Pseudo-Polyrotaxane Nanosheet kazuhiro Sugiyama,Kaori Hayashi,Genichi Nakamura,Koji Oosaki,Shuntaro Uenuma,Kohzo Ito
11:15	2H06	Development of Pseudo-Polyrotaxane Nanosheet with Frame-like Structure kazuhiro Sugiyama,Yuji Sakaihara,Koji Oosaki,Shuntaro Uenuma,Kohzo Ito
11:40	2H07	Precise synthesis of polymer brush substrates consisting of poly(phenylacetylene)s and their structural analysis Tatsuya Nishimura,Kokoro Takayama,Feng Li,Tsuyoshi Taniguchi,Katsuhiro Maeda

Hiroshi Endo, presiding

12:55	2H08	Preparation of novel chiral silica using stereoregular organic-inorganic hybrid polymers Satoshi Kometani,Kei Manabe,Syuji Fujii,Yoshinobu Nakamura,Tomoyasu Hirai
13:20	2H09	Optical property control of aromatic network polymer spheres with phenolic polyaromatic backbone Nanami Hano,Akari Yamamoto,Makoto Takafuji,Hirotaka Ihara

Yoshihisa Fujii, presiding

13:45	2H10	Carbonization of aromatic network polymer spheres and their application to thermally stable high-contrast iridescent structural colors Makoto Takafuji,Kousuke Nakamae,Nanami Hano,Hirotaka Ihara
14:10	2H11	Neutron total reflection to observe the rubber interface on metal surface Satoshi Koizumi,Syuhei Aso,Tomoki Maeda,Masahiro Ueno,Yoshihisa Takeyama,Yuki Nakama
14:35	2H12	Changes in higher-order structure due to seawater immersion treatment of polycaprolactone thin films Mamiko Takigawa,Kenshirou Kaji,Hiroyasu Masunaga,Taiki Hoshino,Shinichi Sakurai,Sono Sasaki
		Satoshi Koizumi, presiding
15:25	2H14	Fabrication of Hierarchical and Temperature-responsive Wrinkled Film Hiroshi Endo,Kohei Sawa,Daichi Kawabata
15:50	2H15	Viscoelastic impact between PDMS surface having different surface morphology and solid spheres Hirokazu Maruoka
16:15	2H16	Control of Bionterface functionalized with Pyridine Containing Amphiphilic Block Copolymer for Biomedical Applications. Hidenori Otsuka,Shuto Noguchi,Daisuke Kozuma
		Sono Sasaki, presiding
16:40	2H17	Molecular dynamics study on the interaction of PMEA and water: Local states and properties of confined water Yoshiki Ishii,Hajime Torii,Yuka Ikemoto,Hitoshi Washizu
17:05	2H18	Polymer Adsorption into Sub-Nanoporous Metal-Organic Frameworks Noriyoshi Oe,Nobuhiko Hosono,Takashi Uemura
17:30	2H19	Property of dynamic zwitterionic polymer brush Katsuki Otaki,Norifumi Yamada,Kohzo Ito,Hideaki Yokoyama
17:55	2H20	Swelling behaviors of polyamide 4 thin films in aqueous environments Shunta Tamura,Haruki Mokudai,Takashi Masaki,Norifumi Yamada,Hisao Matsuno,Keiji Tanaka

Wed. Sep 8

B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES

		Takashi Nishino, presiding
9:10	3H01	In-situ AFM observation of crystallization process of extended-chain crystals of poly(lactic acid) Kazuya Ohtomo,Jiro Kumaki
9:35	3H02	High-temperature real-time AFM of a PMMA flat substrate prepared by thermal imprinting with mica and PMMA isolated chains deposited on it Jin Ohkawa,Jiro Kumaki
10:00	3H03	Molecular combing of various poly(n-alkyl acrylate) chains by the dipping method Akihiro Ohmatsuzawa,Moriya Kikuchi,Seigou Kawaguchi,Jiro Kumaki
		Akihiro Hanafusa, presiding
10:25	3H04	Relation between Sliding Friction of Poly(vinyl alcohol) Hydrogels and Surface Geometry

Haruna Takefuji,Shintaro Yashima,Masahiko Annaka

10:50 3H05 Effect of lubricant with polyalkyl methacrylate on tribology of polymer materials
Atsuya Higuchi,Masaki Kakiage,Hiroki Uehara,Takeshi Yamanobe,Yasushi Onumata,Kazuo Tagawa

11:15 3H06 Investigation of effects of lamellae stucking structure and orientation on polymer thin films on the surface elastic modulus
Kenshiro Kaji,Van Toan Nguyen,Hiroyasu Masunaga,Daiki Hoshino,Shinichi Sakurai,Sono Sasaki

11:40 3H07 Alkyl side chain dependence on phase separations of poly(N-alkyl acrylamides-b-ethylene glycol).
Mizuki Ohke,Wataru Kukai,Atsushi Narumi,Hiroshi Yabu,Masaya Mitsuishi,Jun Matsui

Jun Matsui, presiding

12:55 3H08 Temperature Dependence of Interfacial Segregation for Aqueous Methylcellulose Solution and Its Effect on Gelation Behavior
Kenji Yamaoka,Norifumi L. Yamada,Yoshihisa Fujii,Naoya Torikai

13:20 3H09 X-ray Diffraction Study on Thermal Residual Stress Analysis and Adhesion Strength at Different Polymers Interface
Ryosuke Hosomi,Takuya Matsumoto,Takashi Nishino

13:45 3H10 Improving the adhesiveness between polyamide and carbon fibers by fiber surface oxidation
Tomoyo Okumura,Taichi Oshima,Yasuhisa Ichihashi,Kei Ohkubo

Room I

Mon. Sep 6

S5. Polymer Simulation and Machine Learning - From Nanoscale to Macroscale

12:45 1ISO Introductory Remarks S5
Taku Ozawa

Naohito Urakami, presiding

12:55 1I08 Large-scale All-atom Molecular Dynamics Study on the Fracture Process of Semi-crystalline Polyethylene
Shuichi Uehara,Yusuke Ootani,Nobuki Ozawa,Momoji Kubo

13:20 1I09 Relaxation process after elongation of semicrystalline polymers by coarse-grained molecular dynamics simulation
Yuji Higuchi

13:45 1I10 Molecular Dynamics Simulation of diamond and Tetra-arm network under Uniaxial Stretching
Kosuke Aomura,Yusuke Yasuda,Koichi Mayumi,Hideaki Yokoyama,kohzo ItIto

Takahiro Murashima, presiding

14:10 1I11 Coarse-grained Modeling of Rubbers with Reversible Cross-Links
Yusuke Yasuda,Hiroshi Morita

14:35 1I12 Elongation simulation of thermoplastic elastomer using CG model - dependence of elongation direction

Hiroshi Morita,Ayano Miyamoto,Ryohei Hosoya

Yuji Higuchi, presiding

15:25 1I14 Description of Finite Chain Extensibility in Elastomer Based on Complex Network
Yoshifumi Amamoto,Ken Kojio,Atsushi Takahara,Yuichi Masubuchi,Mariko Ito,Takaaki Ohnishi

15:50 1I15 Multi-chain slip-spring simulations for unentangled polyisoprene melts
Yuichi Masubuchi

Hiroshi Morita, presiding

16:15 1I16 Discovery of Stress Overshoot Phenomena in Ring-Linear Blends under Biaxial Elongational Flow
Takahiro Murashima,Katsumi Hagita,Toshihiro Kawakatsu

16:40 1I17 Vesicle deformation and division induced by flip-flop
Naohito Urakami,Yuka Sakuma,Toshikaze Chiba,Masayuki Imai

Taku Ozawa, presiding

17:30 1I19IL Computer simulations of block copolymer composite materials
Javier Díaz,Marco Pinna,Ignacio Pagonabarraga,Andrei Zvelindovsky

Tue. Sep 7

S5. Polymer Simulation and Machine Learning - From Nanoscale to Macroscale

Taku Ozawa, presiding

9:10 2I01 Development of Material Information Extraction AI Tools
Yuji Matsumoto,Masashi Ishii,Hiroya Takamura,Hiroyuki Shindo,Kouji Kozaki

9:35 2I02 Research and development of a corpus for polymer scinece and training data creation for an advanced AI tool
Hiroyuki OKA,Akira Suzuki,Luca FOPPIANO,Koichi SAKAMOTO,Masashi ISHII,Kimito FUNATSU

10:00 2I03 Machine Learning-based Methods for Information Extraction in Material Science Domain
Tatsuya Ishigaki,Yui Uehara,Liu Shanshan,Goran Topic,Hiroya Takamura

10:25 2I04 A development of machine-learning techniques for analyzing tables and figures in papers of polymer science
Hiroyuki Shindo,Van Thuy Phi,Akihiko Kato,Shuhei Kondo,Yuya Yoshikawa

10:50 2I05 Development of a Polymer Ontology from Large-scale Knowledge Graphs for Structuring Material Data
Kouji Kozaki,Satoshi Kume

Hiroya Nitta, presiding

11:15 2I06 Molecular design by unsupervised machine learning and quantum annealing technique
Kan Hatakeyama,Momoka Umeki,Hiroki Adachi,Takahiro Kashikawa,Koichi Kimura,Kenichi Oyaizu

11:40 2I07 Machine Learning on Fundamental Polymer Properties using All-Atom Molecular Dynamics Simulation Data
Umi Yamamoto,Masahiro Kitabata,Isamu Shigemoto

Satoru Yamamoto, presiding

12:55	2I08	Construction of thermophysical properties database of polymers using molecular dynamics calculations and analysis of controlling factor of the thermophysical properties by machine learning approach Yoshihiro Hayashi,Stephen Wu,Yoh Noguchi,Junichiro Shiomi,Junko Morikawa,Ryo Yoshida
13:20	2I09	High throughput prediction of elastic property of thermoplastic elastomer by hierarchical simulation and deep learning Takeshi Aoyagi
13:45	2I10	Deep learning-based estimation of chi-parameter of block copolymers from cross-sectional images of phase-separated structures Katsumi Hagita,Takeshi Aoyagi,Takashi Honda

Kazushi Fujimoto, presiding

14:10	2I11	Virtual experiment of generating CNT bucky-papers Takashi Honda,Shun Muroga,Hideaki Nakajima,Taiyo Simizu,Kazufumi Kobashi,Hiroshi Morita,Toshiya Okazaki,Kenji Hata
14:35	2I12	Experimental and Computational Studies of Microstructures and Heterogeneous Interfaces of Alumina/PMMA Composites Ken Saito,Kimiyasu Sato,Yuichi Tominaga,Yusuke Imai

Takeshi Aoyagi, presiding

15:25	2I14	Molecular Studies of Amorphous and Crystalline Polymers Kazushi Fujimoto,Hiroaki Ishikawa,Minoru Shimooka,Toshihiro Kaneko,Susumu Okazaki
15:50	2I15	Curing reaction process between epoxy molecules with different internal degrees of freedom and amines Satoru Yamamoto,Keiji Tanaka
16:15	2I16	Mechanical Property of Fiber/Matrix Interface for CFRP Jun Koyanagi

Takashi Honda, presiding

16:40	2I17	Force field parameter construction for molecular dynamics simulation of polymers adsorbed on solid slab Hiroya Nitta,Taku Ozawa
17:05	2I18	Molecular dynamics simulation of polyion complex formation of oligosaccharides and its drug loading behavior Makoto Yamazaki,Makoto Yabe,Kazutoshi Iijima
17:30	2I19	Fast local electronic structure analysis of DNA block polymer by ab initio elongation method and machine learning Keisuke Hisama,Yuuichi Orimoto,Yuriko Aoki

Room J

Mon. Sep 6

S7. Surface and Interface of Polymers and Water; From Nano to Bulk Level

9:50	1JSO	Introductory Remarks S7 Shingo Matsukawa

Shingo Matsukawa, presiding

10:00	1J03IL	Recrystallization of ice crystals in sucrose solution containing food hydrocolloids. Tomoaki Hagiwara
10:50	1J05	Rheological properties and nano-structures of potato starch paste in gelatinization and retrogradation process. Isamu Kaneda,Shiho Sasaki,Rei Saito,Naoki Okabe,Masato Ohnuma,Takahiro Noda
		Isamu Kaneda, presiding
11:15	1J06	Effects of acidic and basic additives on the cooperative order-disorder transition of aqueous schizophyllan Kazuto Yoshiba,Yota Yasuda,Yuji Miyazaki,Motohiro Nakano
11:40	1J07	Interaction and complex formation of ionic polysaccharide from seaweed with whey protein Yoshiaki Yuguchi,Sugumi Kawashima,Teruko Konishi,Thi Thu Thuy Thanh
		Yoshiaki Yuguchi, presiding
12:55	1J08	Selectable Oil-Water Separation Membrane using a Self-organized Honeycomb Film Bihai CHEN,Takehiko WADA,Hiroshi YABU
13:20	1J09	Analysis of water swelling behaviors of phospholipid-mimetic polymers with different hydrophobic units Chie Kojima,Risa Katayama,Nobuyuki Tanaka,Yo Tanaka,Kohei Shiraishi,Akikazu Matsumoto
		Daisuke Ishii, presiding
13:45	1J10	Synthesis of triblock copolymers composed of different betaine chains, and self-assembly and stimulus responsiveness Hiroyoshi Kameshima,Hideki Matsuoka,Yoshiyuki Saruwatari
14:10	1J11	Correlation between Hydration and Protein Rejection on Ethylene Glycol-Based Polymer Surface with Different Molecular Structure Hidenori Otsuka,Ryutaro Sato,Yukie Maejima,Shuto Noguchi
14:35	1J12	Creation of temperature-responsive cell culture base with side-chain crystalline block copolymer Shigeru Yao,Mai Hazekawa
		Yasuhisa Adachi, presiding
15:25	1J14	Interfacial properties of amphiphilic cellulose nanofibrils with Janus-type structure Shingo Yokota,Koichiro Ishida,Tetsuo Kondo
15:50	1J15	Effect of addition of Ferulic acid Copolyester on the Enzymatic Degradation of Isothermally Crystallized Poly(L-lactide) Daisuke Ishii,Ai Matahira,Rui Tsukada
16:15	1J16	Hydration process in biocompatible polymers undergoing phase separation Daiki Murakami,Kosuke Yamazoe,Sin-nosuke Nishimura,KurahashiNaoya Kurahashi,Tomoya Ueda,Jun Miyawaki,Yuka Ikemoto,Masaru Tanaka,Yoshihisa Harada
		Shigeru Yao, presiding
16:40	1J17	Correlation between wettability of microstructured surfaces and dynamic behavior of bubbles in water atmospheres Honoka Sugiyama,Maria Inukai,Daisuke Ishii
17:05	1J18	Measurement of Adhesive interaction between Marin Sessile Organisms and Polyzwitterion Surface in Aqueous Medi Motoyasu Kobayashi,Takumi Komiya,Ryota Sato,Yasuyuki Nogata

17:30	1J19	The analysis of the electrokinetic behavior in the cationic polymer brush surfaces as model interfaces Tsukuru Masuda,Yoichi Watanabe,Madoka Takai
17:55	1J20	Rate of flocculation of colloidal particles induced with polyelectrolytes in the standardized mixing Yasuhisa Adachi,Voon Hayley Lim

Tue. Sep 7

S7. Surface and Interface of Polymers and Water; From Nano to Bulk Level

Shingo Matsukawa, presiding

9:10	2J01IL	Molecular architecture and mechanical properties of plant cell walls and polysaccharide composite models Mike Gidley,P Lopez-Sanchez,M Martinez-Sanz,D Mikkelsen,BM Flanagan,M Rincon,S-Q Chen,G Gartaula,D Lin,GE Yakubov,EP Gilbert,JR Stokes
10:00	2J03	Cellulose structural assessment by Infrared spectroscopy combined with detuteration Mayu Yamazaki,Yoshiki Horikawa
10:25	2J04	Cellulose biosynthesis: an example of polymer synthesis in water Tomoya Imai,Tatsuya Kondo

Yoshiki Horikawa, presiding

10:50	2J05	Evaluation of aspect ratios of cellulose nanowhisker particles by viscosity measurements under controlled particle repulsions Naoya Osawa,Jun Araki
11:15	2J06	Structure and conformation of chemically modified cellulose ethers in aqueous solution Toshiyuki Shikata,Kei Kurahashi,Erika Saiki,Misato yoshida

S6. Frontier of Soft Materials Imaging

12:45	2JSO	Introductory Remarks S6 Hiroshi Jinnai

Takashi Nishino, presiding

12:55	2J08	Dark Field Imaging Developed with the Pulse Neutron. Satoshi Koizumi,Yohei Noda,Yoshie Ohtake,Tomohiro Kobayashi,Takumi Inada,Tomoki Maeda
13:20	2J09	Structure analysis of adhesion interface using neutron reflection tomography Hiroyuki Aoki,Yuwei Liu

Yohei Noda, presiding

13:45	2J10	Spectro-microscopic Analysis of Organic Materials by Scanning Transmission X-ray Microscopy Takuji Ohigashi
14:10	2J11	Three-dimensional in situ observation of crack propagation in phase-separated structure of epoxy resin / polyether sulfone blends by X-ray CT and analysis of strain distribution Kazuya Tao,Takuya Matsumoto,Takashi Nishino

14:35 2J12 Damage-free nanoimaging of soft materials using X-ray free-electron laser
Yoshinori Nishino,Suzuki Akihiro,Niida Yoshiya,Bessho Yoshitaka,Joti Yasumasa

Hiroshi Jinnai, presiding

15:25 2J14IL Emerging significance of molecular movies in chemistry
Eiichi Nakamura

Masatoshi Tosaka, presiding

16:15 2J16 Nanoscale molecular vibration spectroscopy of polymers by using a monochromatized TEM
Ryosuke Senga,Kazu Suenaga,Hsiao-Fang Wang,Tomohiro Miyata,Hiroshi Jinnai

16:40 2J17 Evaluation of electron irradiation damage on crystalline polymers by transmission electron microscopy
Shusuke Kanomi,Tomohiro Miyata,Hiroshi Jinnai

Kei Kobayashi, presiding

17:05 2J18 Nano-scale chemical imaging of polymer blends
Shunsuke Muto,Hiroki Umemoto,Shigeo Arai,Jun Kikuma,Hirohide Otobe

17:30 2J19 In-situ heating electron microscopy of order-order transition in block copolymer
Wang Hsiaofang,Hiroshi Jinnai

17:55 2J20 High-contrast observation of unstained polymeric samples using phase-plate transmission electron microscopy
Tomohiro Miyata,Hsiao-Fang Wang,Hiroshi Jinnai

Wed. Sep 8

S6. Frontier of Soft Materials Imaging

Hiroshi Jinnai, presiding

9:10 3J01IL Locating Atoms and Ions in Polymer Crystals by Cryo-Electron Microscopy
Nitash Balsara

10:00 3J03 Structural analysis of molecular structures by cryo-electron microscopy
Masahide Kikkawa

Keiji Tanaka, presiding

10:25 3J04 Reproducibility of unidirectional processive motion of a complex molecule of an anionic polymer chain and a cationic polymer chain
Yuga Onuki,Ken-ichi Shinohara

10:50 3J05 Observation of crystallization behavior of isolated isotactic poly(methyl methacrylate) chains.
Yusaku Takahashi,Jiro Kumaki

Hiroyuki Aoki, presiding

11:15 3J06 Direct Observation of an Epoxy/Amine System at the Initial Stage of Curing Reaction
Yukari Oda,Satoru Yamamoto,Keiji Tanaka

11:40 3J07 Operando Nanocharacterization of Polymer Blend Solar Cells by Photoconductive AFM

Hiroaki BENTEN,Yuji YAMAGATA,Masakazu NAKAMURA

Jiro Kumaki, presiding

12:55 3J08 Dynamics Imaging of Polymer Microspheres by High-Speed Atomic Force Microscopy
Takayuki Uchihashi,Yuichiro Nishizawa,Daisuke Suzuki

13:20 3J09 Visualization of Buried Interfaces by Atomic Force Microscopy
Kei Kobayashi

Room K

Mon. Sep 6

S8. Functionality-Oriented High-Order Structure of Polymers: Formation, Characterization, and Design

9:50 1KSO Introductory Remarks S8
Sadaki Samitsu

Kazunori Sugiyasu, presiding

10:00 1K03IL The intrinsic difference in viscoelastic phase separation between polymeric and colloidal systems and its relation to biological phase separation
Hajime Tanaka

10:50 1K05 Local molecular conformation of rigid ring polymers and intermolecular interactions with small molecules
Ken Terao

11:15 1K06 Self-assembled Single-crystalline Micro-vessels of Planar Chiral π-Conjugated Molecule
Osamu Oki,Hiroshi Yamagishi,Yasuhiro Morisaki,Yasuo Norikane,Yohei Yamamoto

Sadaki Samitsu, presiding

11:40 1K07 Kinetic control over molecular self-assembly
Kazunori Sugiyasu

12:55 1K08 Large deformation and Fracture of Model Network Materials
Tetsuo Yamaguchi

Tetsuo Yamaguchi, presiding

13:20 1K09 Structural Development Utilizing Molecular Entanglements
Hiroki Uehara,Masaki Kakiage

13:45 1K10 Preparation of Dual Cross Network Polymers by Knitting Method and Evaluation of Their Mechanical Properties
Yusaku Kawai,Junsu Park,Yoshiki Ishii,Shunusuke Murayama,Ryohei Ikura,Motohumi Osaki,Yuka Ikemoto,Osamu Urakawa,Hiroyasu Ymaguchi,Tadashi Inoue,Akira Harada,Hitoshi Washizu,Go Matsuba,Yoshinori Takashima

14:10 1K11 Application of coarse-grained molecular dynamics simulation to improve tensile properties of styrene block copolymer blends
Ryohei Hosoya,Makiko Ito,Ken Nakajima,Hiroshi Morita

14:35 1K12 Relation between the Hydration State and Mechanical Properties of Crosslinked Polymer

Yoshihisa Fujii,Koki Inoue,Daiki Shomura,Risa Hishida,Naoya Torikai

Yoshihisa Fujii, presiding

15:25 1K14 Effect of Cross-link Density on Strain-induced Crystallization in Slide-ring Gels.
Sohei Kawahara,Chang Liu,Koichi Mayumi,Hideaki Yokoyama,Kohzo Ito

15:50 1K15 Effects of intramolecular folding structure on the mechanical properties of thermoplastic elastomers
Natsuki Kanemura,Shintaro Nakagawa,Naoko Yoshie

16:15 1K16 Evaluation of Void and Filler Orientation Distribution before Filler-Filled Rubber Material Fracture by Small-Angle X-ray Scattering-Tomography
Yuta Hara,Mikihito Kakenaka,Hiroki Ogawa,Ryo Mashita,Yukihitro Nishikawa

Yoshihiro Yamauchi, presiding

16:40 1K17 Visualization and Quantification of Tensile Stress by Composites of Layered Polydiacetylene and Polyurethane
Yuki Mochizuki,Hiroaki Imai,Yuya Oaki

17:05 1K18 Hyper-ordered Structure Induced by Photopolymerization in Chiral-Nematic-Liquid-Crystal Polymers and Their Mechano-Optical Properties
Maki Yanagihara,Kyohei Hisano,Osamu Tsutsumi

17:30 1K19 Side-chain Modified Block Copolymers by Click Chemistry for Controlling the Microphase-separated Structures
Zhengdan Lin,Yuta Nabae,Teruaki Hayakawa

17:55 1K20 Synthesis and Properties of Monodispersed Cross-Linked Liquid-Crystalline Polymer Particles with Controlled Molecular Orientation
Shodai Hayashi,Tomoki Shigeyama,Kyohei Hisano,Osamu Tsutsumi

Tue. Sep 7

S8. Functionality-Oriented High-Order Structure of Polymers: Formation, Characterization, and Design

Sadaki Samitsu, presiding

9:10 2K01IL Burn-Dry: Aerogel Fabrication via Polymer-Assisted Rapid Thermal Annealing
James Pagaduan,Jordan Varma,Todd Emrick,Reika Katsumata

10:00 2K03 Development of high-performance composite materials using carbon nanotubes
Seisuke Ata

Seisuke Ata, presiding

10:25 2K04 Fabrication and thermoelectric property of conducting polymer aerogel
Takeshi Shimomura,Shinji Kanehashi

10:50 2K05 Precision synthesis of bottlebrush polymers and their application to tough and transparent multiphase plastics
Yoshihiro Yamauchi

11:15 2K06 Degradability of polyglycolic acid fiber mats
Hisao Matsuno,Misato Fujii,Masayasu Totani,Keiji Tanaka

11:40 2K07 Mechanical Properties of SIS Thermoplastic Elastomer Ultra-Thin Films: Film Thickness and Strain Rate Dependence of Elastic Modulus

Masayuki Saito,Kohzo Ito,Hideaki Yokoyama

Sadaki Samitsu, presiding

12:55 2K08 Distribution states of nanoscale structures by scattering-tomography measurements
Hiroki Ogawa,Shunsuke Ono,Mikihito Takenaka,Yukihiro Nishikawa

Hiroki Ogawa, presiding

13:20 2K09 Study on polymer electrolyte membrane having 3D proton conduction channel composed of functionalized filler prepared by Polymerization with Particles (PwPs)
Toshihiko Arita,Akito Masuhara

13:45 2K10 Electron Transport in Thin Films of Conjugated Polymers Visualized by Conductive Atomic Force Microscopy
Hiroaki BENTEN,Anjar Taufik HIDAYAT,Toshiki KAWANISHI,Noboru OHTA,Azusa MURAOKA,Masakazu NAKAMURA

14:10 2K11 Robust Angular Anisotropy of Circularly Polarized Luminescence from a Single Twisted-bipolar Polymeric Microsphere
Yohei Yamamoto,Osamu Oki,Hiroshi Yamagishi,Chidambar Kulkarni,Stefan C. J. Meskers,Bert E.W.,Zhan-Hong Lin,Jer-Shing Huang

14:35 2K12 Orientational order of liquid crystal included in continuous regular pores of Metal-Organic Frameworks
Shizuka Anan,Hirotsugu Kikuchi

Shizuka Anan, presiding

15:25 2K14 Construction and properties of porous organic salts having perfluoro space composed of tetrahedral tetrasulfonic acids and bulky amines
Takahiro Ami,Norimitsu Tohnai

15:50 2K15 Synthesis and Self-assembled Structural Characterization of Poly(4-vinyl pyridine)-b-Poly(2,2,2-trifluoroethyl methacrylate) for Hierarchical Porous Structure Formation
Hitomi Kawahara,Yuta Nabae,Teruaki Hayakawa

16:15 2K16 Construction of porous structures with various topologies composed of tetrasulfonic acids and modified triphenylmethylamines: induced-phosphorescent properties of the incorporated compounds into the pores.
Hiroi Sei,Norimitsu Tohnai

16:40 2K17 Synthesis of 18/24 -membered Binary Crownether Compound and Analysis of Its Self-aggregated Structure
Kohei KITAMOTO,Kenjiro ONIMURA,Kazuhiro YAMABUKI

Room L

Mon. Sep 6

S9. Polymer Structure and Dynamics Captured by Multidimensional and Complementary Analysis

9:50 1LSO Introductory Remarks S9
Koji Yazawa

Koji Yazawa, presiding

10:00 1L03IL Diffusion NMR and Applications including Polymers
William S. Price

Ryosuke Kusumi, presiding

10:50 1L05 Solid-State NMR and ESR studies of annealed Ethylene Ionomers
Atsushi Asano,Shohei Mikage,Takayuki Matsukawa,Chikako T. Nakazawa

11:15 1L06 Analysis of hierarchical ordered structures based on synchrotron X-ray scattering and microscopic ATR-FTIR imaging methods
Ryohei Ishige,Shohei Hara,Shinji Ando,Cai Li,Sergei Kazarian

11:40 1L07 Dynamics and Photophysical Properties of pi-Conjugated Polymers with a Dynamic Bifacial Structure
Fumitaka Ishiwari,Daiki Abe,Yalun Yin,Akinori Saeki,Takanori Fukushima

Yasunari Kusaka, presiding

12:55 1L08 Pure effects of domain cross-linking on the physical properties of ABA triblock copolymer-based elastomers
Mikihiro Hayashi,Isamu Kawarazaki,Akitsugu Shibata,Michihiro Kawai

13:20 1L09 Structural formation dynamics of silk fibroin in the silk gland of Bombyx mori and Samia cynthia ricini silkworms revealed by time-resolved X-ray scattering analysis
Taiyo Yoshioka,Tamako Hata,Tsunenori Kameda

13:45 1L10 Multi-faceted analysis of polyethylene terephthalate films deteriorated by UV irradiation.
Takaya Satoh,Yusuke Sakuda,Chikako Nakayama,Azusa Kubota,Sayaka Nakamura,Ryota Watanabe,Shogo Yamane,Hiroaki Sato,Yoshihisa Ueda

Hiroaki Yoshimizu, presiding

14:10 1L11 Multifaceted structural analysis of natural lacquer films
Noriyasu Niimura,Hiroshi Terashima,Osamu Kamo,Keisuke Ishii

14:35 1L12 Structure Analysis by Noise Reduction Method for Solid-State NMR Array Spectra Using Principal Component Analysis
Yasunari Kusaka,Takeshi Hasegawa,Hironori Kaji

Yuki Nakama, presiding

15:25 1L14 Asymmetric Radical Cyclopolymerization of N-allyl-N-tert-butylacrylamide in the Presence of Chiral Tartrates
Tomohiro Hirano,Yosuke Fujita,Miki Shinomiya,Yukihiro Arakawa,Fumitoshi Yagishita,Akira Emoto,Miyuki Oshimura,Koichi Ute

15:50 1L15 Solid-State 1H-NMR Analysis for As-Polymerized Structure of Polyethylene
Hiroki Uehara,Masaki Kakiage

16:15 1L16 Analysis of structural changes during deformation of polymer materials by combination of in-situ X-ray and pulse NMR measurements
Masaki Kakiage,Ayaka Takazawa,Takeshi Yamanobe,Hiroki Uehara

Atsushi Asano, presiding

17:05 1L18 Correlation between polymer structure and function by NMR observation of dissolved gases
Hiroaki YOSHIMIZU

17:30 1L19 Structure determination of polysaccharide synthesized with glucosyltransferase GtfL via chemical modification
Ryosuke Kusumi,Shinichi Asai,Qinfeng He,Kayoko Kobayashi,Satoshi Kimura,Masahisa Wada

Tue. Sep 7

F. INDUSTRIAL POLYMERS AND TECHNOLOGY

Fujimoto Keiji, presiding

10:00 2L03 New rheological evaluation method of cosmetic creams using nonlinear viscoelasticity
Kosuke Suzuki,Rika Takeda,Kyoichi Tsurusaki,Ryoen Shirasaki

10:25 2L04 Investigation of polymerization conditions for preparation of oligo(3-methoxythiophene) lustrous films
Ryohei Sano,Satoru Tsukada,Katsuyoshi Hoshino

10:50 2L05 Development of meat analogue using food 3D printing
Takaho Kuramochi,Masaru Kawakami,Yosuke Watanabe,Jun Ogawa,Khosla Ajit,Hidemitsu Furukawa

11:15 2L06 Development of RepRap-Based 3D chocolate printer that can control shape and texture
Yuji Motegi,Masaru Kawakami,Yosuke Watanabe,Jun Ogawa,Khosla Ajit,Hidemitsu Furukawa

Hidemitsu Furukawa, presiding

11:40 2L07 Preparation of methyl cellulose nanoparticles by using an aqueous nanodroplet as a reactor
Kaho Wada,Ryo Sakaiya,Yuuka Fukui,Keiji Fujimoto

12:55 2L08 The fabrication of inorganic nanoparticles using organic layered structures as soft templates
Youfeng Yue

13:20 2L09 The evaluation of resist property and chemical component dispersion on a photoacid generator of chemical amplification resist thin films
Shinji Yamakawa,Tetsuo Harada,Takeo Watanabe

Naoki Azuma, presiding

13:45 2L10 Photo-induced Fluorine-containing Polyimide: a Molecular Orbital Calculation Approach on Steric Structure of Photo Alignment Film
Hitoshi Sugiyama,Kazukiyo Nagai,Shuichi Sato

14:10 2L11 Surface Modification of Syndiotactic Polystyrene by Chlorine Dioxide Radical
Atsushi Koizumi,Yankun JIA,Yu-I Hsu,Taka-Aki Asoh,Hiroshi Uyama

14:35 2L12 manufacturing nacre-like composites and Mechanical property
Kazuki Domon,Akira Ishigami,Takashi Takashi,Hiroshi Ito

Takashi Kurose, presiding

15:25 2L14 Fabrication of Large Deformable Hydrogel Composites with Macroscopic Reinforcement
Tsuyoshi Okumura,King R. Daniel,Jian Ping Gong

15:50 2L15 Unidirectional alignment of zinc oxide nanorods in liquid-crystalline polymer films

Kaho Ogata,Yoshiaki Kobayashi,Kohsuke Matsumoto,Shoichi Kubo,Atsushi Shishido

16:15 2L16 Preparation and Mechanical Properties of CNF/PMMA Composites by Elastic Kneading
Kiyoto Sasaki,Akira Isogai,Gen-ichi Matsuda,Rie Iwamoto,Tokiko Hirabayashi,Toru Noguchi

Room M

Mon. Sep 6

S10. The Role of Hierarchy Hidden behind Polymer Gels

9:50 1MSO Introductory Remarks S10
Takeshi Ueki

Kenta Kokado, presiding

10:00 1M03 Synthesis and Application of Hydrogels by One-Shot Radical Polymerization Accompanying Spontaneous Delay
Takayuki Koda,Shunsuke Dohi,Haruki Uesaka,Yasuhito Suzuki,Chie Kojima,Akikazu Matsumoto

10:25 1M04 Biodegradable Injectable Hydrogel with IPN Structure for Cartilage Tissue Engineering
Hidenori Otsuka,Shohei Ishikawa,Shigehito Osawa,Michihiro Iijima

10:50 1M05 Fabrication of inorganic porous materials using cellulose monolith skeleton as templates
Taka-Aki Asoh,Yanting Lyu,Hiroshi Uyama

Taka-aki Asoh, presiding

11:15 1M06 Molecular Design of Anisotropic Deformation from Crosslinking Design of Metal Organic Frameworks
Tokiyo Kato,Kenta Kokado,Kazuki Sada

11:40 1M07 Effects of molecular characteristics of hydrogen bonds on macroscopic mechanical properties of dual network
Shintaro Nakagawa,Xin Huang,Hirohiko Houjou,Naoko Yoshie

Shintaro Nakagawa, presiding

12:55 1M08IL Development of various functional hydrogels of imidazolium-based zwitterionic polymers
Youn soo Kim

Akifumi Kawamura, presiding

13:45 1M10 Precision synthesis of thermoresponsive hydrogels using living cationic polymerization and subsequent crosslinking reactions: Towards easily molded and highly sensitive thermoresponsive hydrogels.
Hiroaki Kato,Kira Landenberger

14:10 1M11 Stiffness-optimized hierarchical microfibrous gel matrix for selective capture of cancer cells
Satoru Kidoaki,Daoxiang Huang

14:35 1M12 Hydrogel that functions at the interface: Biodevice application
Madoka Takai,Tsukuru Masuda,Shintaro Hara

Tsukuru Masuda, presiding

15:25	1M14	Hierarchical structure control and biofunctional evaluation of nanogel-integrated gels in microscale Yoshihiro Sasaki,Ayumu Koyama,Shunya Hayashi,Eriko Marukawa,Hiroyuki Harada,Shin-ichi Sawada,Kazunari Akiyoshi
15:50	1M15	Design of Glucose-responsive Gel Microcapsules by Complex Formation at Emulsion Interface Takashi Miyata,Shiori Matsubara,Kota Tanaka,Akifumi Kawamura
16:15	1M16	Compression of microgel monolayers adsorbed at air/water interfaces Tetsuya Noguchi,Haruka Minato,Suzuki Daisuke

Chie Kojima, presiding

16:40	1M17	Introduction of hierarchical structure to CO2 separation material consisting of microgel particles Yu Hoshino,Shoma Aki,Yida Liu,Yuki Terayama,Kota Katafuchi,Yoshiko Miura
17:05	1M18	Post-polymerization modification reaction with maleimidophenyl isocyanates for the synthesis of gels with homogeneous network structure Rikito Takashima,Masashi Ohira,Hirogi Yokochi,Xiang Li,Daisuke Aoki,Hideyuki Otsuka
17:30	1M19	Fabrication of dynamic wrinkles on hydrogel surface by electrophoretic approach Yuka Kashihara,Taka-Aki Asoh,Hiroshi Uyama
17:55	1M20	Hierarchical Structure Analysis of Amphiphilic Gel Surface by Quantum Beam Multiple Probe Method Eri Ito,Tatsuya Imai,Katsuhiro Yamamoto

Tue. Sep 7

S10. The Role of Hierarchy Hidden behind Polymer Gels

Ryota Tamate, presiding

9:10	2M01	Toughening of Slide-ring gels by strain-induced crystallization Koichi Mayumi,Chang Liu,Sohei Kawahara,Takako Noritomi,Hideaki Yokoyama,Kohzo Ito
9:35	2M02	Coarse-grained Molecular Dynamics Simulations for Strain Induced Crystallization in Slide-Ring Gels Takeyoshi Masumoto,Yusuke Yasuda,KOsuke Aomura,Koichi Mayumi,Takashi Uneyama,YUichi Masubuchi,Hideaki Yokoyama,Kohzo Ito
10:00	2M03	Structure and dynamics of gels synthesized at different polymer packing conditions Xiang Li,Yui Tsuji,Shotaro Nakagawa,Mitsuhiro Shibayama

Xiang Li, presiding

10:25	2M04	A Simple Macroscale Model of Double Networks Daniel King,Tsuyoshi Okumura,Riku Takahashi,Jian Ping Gong
10:50	2M05	Characterization of Crack of Polymer Gels under Biaxial Strain Thanh-Tam Mai,Kenji Urayama
11:15	2M06	Crossover from Positive to Negative Energetic Elasticity in Silicone Gels Takuma Aoyama,Kenji Urayama

11:40	2M07	Study on the Correlation between Activation Energy/Toughness and Water Content of Reversible Cross-Linking Hydrogels Chiharu Ueda,Junsu Park,Subaru Konishi,Motofumi Osaki,Hiroyasu Yamaguchi,Akira Harada,Go Watanabe,Masaru Tanaka,Yoshinori Takashima

Koichi Mayumi, presiding

12:55	2M08IL	Homogeneous polymer network gel electrolytes for energy storage devices: relationship between polymer/ion solvation and electrochemical properties Kenta Fujii

Shohei Ida, presiding

13:45	2M10	Stimuli-responsibility of Polymer Gel Containing Ionic Liquid and its Relevance to Competitive Interactions Masayoshi Watanabe
14:10	2M11	Properties of liquid metal-ionic liquid composite gels Kazuhide Ueno,Juri Asada,Hiroki Ota,Masayoshi Watanabe
14:35	2M12	Formation of nano-particle/polymer composite network to improve mechanical strength of a gel containing an ionic liquid Eiji Kamio,Masayuki Minakata,Atsushi Matsuoka,Hideto Matsuyama

Kazuhide Ueno, presiding

15:25	2M14	Highly Stretchable and Self-Healing Ion Gels Based on Entanglement of Ultra-High Molecular Weight Polymers. Yuji Kamiyama,Ryota Tamate,Takeshi Ueki
15:50	2M15	Tetra-arm PEG-based Polymer Electrolytes Prepared in Ionic Liquids Containing Na salt:Gelation Kinetics and Structural study Mayu Osugi,Ayuko Kitajou,Fujii Kenta
16:15	2M16	Dynamically Functional Hydrogels with Responsive Crosslinked Nanodomain Structures Shohei Ida,Shokyoku Kanaoka
16:40	2M17	Effect of DNA on the gel formation of alginate/DNA composite hydrogels Tuerxun Weinire,Takashi Aoki

Wed. Sep 8

S10. The Role of Hierarchy Hidden behind Polymer Gels

Daisuke Ishii, presiding

9:10	3M01	Structural design of self-oscillating polymers driven by only organic acids Takahiro Ono,Takafumi Enomoto,Micika Onoda,Takeshi Ueki,Ryota Tamate,Aya Akimoto,Ryo Yoshida
9:35	3M02	Capsule-shaped Self-Oscillating Hydrogel with Cell-like Surface Fluctuation Won Seok Lee,Takafumi Enomoto,M. Aya Akimoto,Ryo Yoshida
10:00	3M03	Development of a sand surface movement mechanism using shape memory gel Hibiki Aoyama,Jun Ogawa,Yosuke Watanabe,Shiblee Nahin,Masaru Kawakami,Khosla Ajit,Hidemitsu Furukawa

Takafumi Enomoto, presiding

10:25	3M04	Development of Anti-adhesion Organogel Surface Using Oil-based Nanosuit and Elucidation of Anti-adhesion Mechanism Soma Kitamura,Daisuke Ishii
10:50	3M05	Development of the Transfer Systems Using the Progressive Cavity Pumps with Gels Daisuke Sato,Yosuke Watanabe,Jun Ogawa,Masaru Kawakami,Khosla Ajit,Hidemitsu Furukawa
11:15	3M06	4D Printing of Inter-Crosslinking Network Structure Gel with Hinge Structure Masanari Kameoka,Shiblee Nahin,Yosuke Watanabe,Masaru Kawakami,Jun Ogawa,Khosla Ajit,Hidemitsu Furukawa
11:40	3M07	Hierarchical engineering of polymer gel for the development of sustainable microneedle devices Akira Matsumoto,Siyuan Chen,Takuya Miyazaki,Michiko Ito,Barthelmes Kevin,Hiroko Matsumoto,Sayaka Kanai,Kiyoshi Ikehara,Yuki Moro-oka,Shinichiro Kimura,Miyako Tanaka,Takayoshi Suganami,Yuji Miyahara

Room N

Mon. Sep 6

S11. Polymers for Next-generation Energy Devices

12:45	1NSO	Introductory Remarks S11 Masamichi Nishihara
		Kenichi Oyaizu, presiding
12:55	1N08	Property of fuel cell electrocatalyst dispersion depending on the alcohol concentration Tsuyohiko Fujigaya,Nana Kayo,Dan Wu,Naoki Tanaka
13:20	1N09	Distinguishing Adsorbed and Deposited Ionomers in the Catalyst Layer of Polymer Electrolyte Fuel Cells using Contrast Variation Small-angle Neutron Scattering Masashi HARADA,Shin-ichi TAKATA,Hiroki IWASE,Shuji KAJIYA,Hiroaki KADOURA,Toshiji KANAYA
		Je Deok Kim, presiding
13:45	1N10	Effects of Acidity on Proton Conductivity of Block Polymer-Based Anhydrous Electrolyte Membranes Takato Kajita,Atsushi Noro,Takahiro Seki,Yushu Matsushita,Masaki Ando,Naoki Nakamura
14:10	1N11	OH- Conduction and Hydration Properties of Anion Exchange Ionomer Fangfang Wang,Dongjin Wang,Yuki Nagao
14:35	1N12	Database of rubber composites for high-pressure hydrogen seal Shin Nishimura,Ono Hiroaki,Fujiwara Hirotada
		Yuki Nagao, presiding
15:25	1N14	Electrolytic Hydrogenation of High-density Redox Polymers and Its Application to Pure Hydrogen Production Kenichi Oyaizu,Yusuke Kaiwa

15:50	1N15	Novel Polyphenylene Ionomer Membranes for High-Performance, High-Temperature-Operable Fuel Cells Zhi Long,Kenji Miyatake
16:15	1N16	High Oxygen Permeable Blend Ionomer for Concentration Overvoltage Reduction in PEFC systems Yasir Arafat Hutapea,Zulfi Al Rasyid Gautama,Akari Hayashi,Kazunari Sasaki,Masamichi Nishihara

Tsuyohiko Fujigaya, presiding

16:40	1N17IL	Pathways to ion-exchange polymer membranes with high stability and conductivity through superacid-mediated polyhydroxyalkylations Patric Jannasch
17:30	1N19	Achieving high chemical durability with high oxygen barrier polymer electrolyte membranes Zulfi Al Rasyid Gautama,Yasir Arafat Hutapea,Stephen Lyth,Kazunari Sasaki,Masamichi Nishihara
17:55	1N20	Sulfonated polyphenylsulfone-vinylon crosslinked composite electrolyte membrane Je Deok Kim

Tue. Sep 7

S11. Polymers for Next-generation Energy Devices

Masamichi Nishihara, presiding

9:10	2N01	Modification of polyethylenes by radiation crosslinking for development of high-pressure hydrogen resistant materials Akira Idesaki,Hirotada Fujiwara,Akihiro Hiroki,Shin Hasegawa,Mitsuo Shibutani,Hiroki Takeshita,Yasunari Maekawa,Katsuhisa Tokumitsu,Shin Nishimura
9:35	2N02	High-pressure hydrogen characteristic of radiation induced crosslinking polyethylene Hirotada Fujiwara,Mitsuo Shibutani,Shin Nishimura,Akira Idesaki,Akihiro Hiroki,Shin Hasegawa,Yasunari Maekawa,Hiroki Takeshita,Katsuhisa Tokumitsu
10:00	2N03	Establishment of quantitative evaluation method using small-angle Xray scattering of the nano-voids formed in polyamide 11 by high-pressure hydrogen gas exposure. Keiko OHYAMA,Fumitoshi KANEKO,Hirotada FUJIWARA,Masahiro KASAI,Hiroaki ONO,Shin NISHIMURA
10:25	2N04	Prediction of the key parameters for high-pressure hydrogen seal rubbers using machine learning Hiroaki Ono,Hirotada Fujiwara,Shin Nishimura

Ikuo Taniguchi, presiding

10:50	2N05	A study on the hydrogen resistance and mechanical properties of EVOH/ETFE blends. Katsuhisa Tokumitsu,Koh-hei Kitayama,Eiichi Nishi,Hiroki Takeshita,Hirotada Fujiwara,Shin Nishimura
11:15	2N06	In situ high pressure hydrogen tensile properties of polypropylene Masanori Anan,Hirotada Fujiwara,Shin Nishimura
11:40	2N07	In-situ FTIR spectroscopic study on the effect of high-pressure hydrogen gas on polymer materials

Fumitoshi Kaneko,Keiko Ohyama,Hirotada Fujiwara,Shin Nishimura

Mitsuru Higa, presiding

12:55 2N08 CO2 capture by amine-containing polymeric membranes: Preparation of membrane modules and the gas transport properties
Ikuo Taniguchi

13:20 2N09 Optical Characteristics of Optical Energy Conversion Films with Photon Upconversion Dyes System
Rina Hisatsugu,Ryo Ohira,Kazuki Shirakata,Mio Yamauchi,Genta Takatoki,Masataka Yaguchi,Yasutaka Urata,Hirokazu Yamane

Manabu Tanaka, presiding

13:45 2N10 Nanocarbon-based novel non-precious metal electrode catalyst design
Pandian Ganesan,Aleksandar Staykov,Shu Hiroaki,Mitsugu Uejima,Naotoshi Nakashima

14:10 2N11 Correlation between the proton conductivity and durability at the cathode in PEFC
Akari HAYASHI

14:35 2N12 Effect of twisted structure on the membrane property of fully-aromatic polyelectrolyte
Shoji Miyanishi,Kaede Matsuta,Takeo Yamaguchi

Noriyoshi Matsumi, presiding

15:25 2N14 Creation of gyroid structured membranes with a three-dimensional proton conduction surface
Takahiro Ichikawa

15:50 2N15 Investigation on high energy conversion efficiency of reverse electrodialysis (RED) hydrogen system
Mitsuru Higa,Ryou Ujike,Hiroki Kawasaki,Yuriko Kakihana

16:15 2N16 Design of Nanostructured Proton-Conducting Polymers Based on Photopolymerizable Ionic Liquid Crystals
Masafumi Yoshio,Siyu Cao

Takahiro Ichikawa, presiding

16:40 2N17 Stretchable Li4Ti5O12 electrode using liquid metal-ionic liquid composite gels
Natsuka Usami,Juri Asada,Hisashi Kokubo,Kaoru Dokko,Masayoshi Watanabe,Kazuhide Ueno

17:05 2N18 Properties of sulfone-based polymer electrolytes in lithium secondary batteries
Chihiro Doi,Hisashi Kokubo,Kaoru Dokko,Masayoshi Watanabe,Kazuhide Ueno

17:30 2N19 Stabilization of Silicon Anode in Li Ion Secondary Batteries Using Crosslinked Poly(BIAN) as Binder
Agman Gupta,Badam Rajashekar,Noriyoshi Matsumi

17:55 2N20 Fabrication and Characterization of Lithium-Air Battery Consisted of Nanofiber Composite Electrolyte Membrane with Suppressed Water Vapor Permeability
Manabu Tanaka,Yuu Matsuda,Hiroyoshi Kawakami

Wed. Sep 8

S11. Polymers for Next-generation Energy Devices

Masahiro Fujita, presiding

9:10	3N01	Development of redox flow battery with bicontinuous microemulsion Kodai Nakao,Akihiro Ohira,Takaaki Sakai,Yukari Sato,Masashi Kunitake
9:35	3N02	Performance Prediction Models of Organic Cathodes for Lithium-ion Battery Constructed by an Assistance of Machine Learning Kosuke Sakano,Yasuhiko Igarashi,Shuntaro Miyakawa,Takaya Saito,Yoshiki Takayanagi,Koji Nishiyama,Hiroaki Imai,Yuya Oaki
10:00	3N03	Design of High Capacity Li Ion Secondary Battery Utilizing Silicon Carbide Nandan Ravi,Noriyuki Takamori,Koichi Higashimine,Badam Rajashekar,Noriyoshi Matsumi

Akihiro Ohira, presiding

10:25	3N04	TetraPEG Gel Electrolyte Containing High Concentration Li Salt: Fundamental Properties and Application to Lithium Batteries Natsumi Tasaki,Kei Hashimoto,Yousuke Ugata,Miki Fujishiro,Kazuhide Ueno,Masayoshi Watanabe,Kaoru Dokko
10:50	3N05	Synthesis and evaluation of solid electrolytes using ionic plastic crystals Masahiro Fujita,Hiromasa Yamada,Shun Yamaguchi,Zhiduan Yang,Yuko Takeoka,Masahiro Rikukawa
11:15	3N06	Lithium-ion conductive characteristics of polarizable polymer nanofiber-based composite solid polymer electrolytes bearing high salt concentrations Nohara Yokota,Manabu Tanaka,Hiroyoshi Kawakami

Room O

Mon. Sep 6

S12. Precisely Designed Network Polymers for Next-generation Materials

9:50	1OSO	Introductory Remarks S12 Eriko Sato

Atsushi Sudo, presiding

10:00	1O03	Chemical modification of crosslinked poly(trimehtylene carbonate) derivatives with ester free structure by thiol Lee Yae Tan,Nalinthip Chanthaset,Hiroharu Ajiro
10:25	1O04	Precise synthesis and crosslink of unsaturated polyester prepared by intermolecular conjugate substitution reaction between initial and terminal ends Naoki Nagatsuka,Madoka Kitamura,Kentaro Maehara,Yasuhiro Kohsaka

Hiroharu Ajiro, presiding

10:50	1O05	Synthesis of Network Polymers Based on Visible-Light-Driven Reductive Coupling Atsushi Sudo,Kazuma Otani,Ayaka Yamada,Hideya Tanaka
11:15	1O06	Development of bio-based carbonate resins utilizing resveratrol

Kazuma MAKITA,Kozo MATSUMOTO

11:40 1O07 Synthesis of epoxy resins by using Corey-Chaykovsky reaction and preparation of their cured products
Toshiyuki Oyama,Seiryu Umetani,Naoya Yamaguchi,Kazuo Arita

Eriko Sato, presiding

12:55 1O08IL Emulsion-Based Multiblock Copolymer Systems: Microphase Separated Nanoparticles and Advanced Materials
Thiago R. Guimaraes,Murtaza Khan,Steven W. Thompson,Glenn Clothier,G. Moad,S. Perrier,Per B. Zetterlund

Yoshinori Takashima, presiding

13:45 1O10 Nanostructural analysis and control of stimulus-responsive hydrogel microspheres
Yuichiro Nishizawa,Takayuki Uchihashi,Daisuke Suzuki

14:10 1O11 Network formation by host-guest cross-polymerization of MOF with hydroxy group
Hiroki Amaya,Mariko Tsutsumi,Kenta Kokado,Kazuki Sada

14:35 1O12 Templated Synthesis of Two-Dimensional Polymer Networks using Metal-Organic Frameworks
Yuki Hayashi,Marta Ximenis Campins,Nobuhiko Hosono,Takashi Uemura

Takaya Terashima, presiding

15:25 1O14 Functionalization of Polymeric Materials by Facilitating Host-Guest Interaction through Planetary Ball Milling
Junsu Park,Yui Sasaki,Shunsuke Murayama,Tomoka Kokuzawa,Motofumi Osaki,Hiroyasu Yamaguchi,Akira Harada,Tsuyoshi Minami,Go Matsuba,Yoshinori Takashima

15:50 1O15 Stable Construction of Rotaxane Network Polymer Using Protecting Group and Its Dismantling
Kazuhiro Yamabuki

Yohei Miwa, presiding

16:15 1O16 Influence of crystalline domains in polyrotaxane slide-ring elastomers on mechanical properties
Shota Ando,Koichi Mayumi,Hideaki Yokoyama,Kohzo Ito

16:40 1O17 Reinforcement of Silicone Rubbers through Cyclic Polymer–Linear Polymer Rotaxane Cross-Linking
Minami Ebe,Kaiyu Fujiwara,J. Brian Ree,Takuya Isono,Takuya Yamamoto,Kenji Tajima,Hironori Marubayashi,Hiroshi Jinnai,Toshifumi Satoh

17:05 1O18 Hydrogels with Amphiphilic Random Copolymer Micelles as Crosslinking Points:Network Design and Physical/Self-Healing Properties
Hiroaki Asai,Makoto Ouchi,Takaya Terashima

Takuya Yamamoto, presiding

17:30 1O19 Development of self-healing gels prepared by complex formation between counter ion of polyanion and sugar
Suzune Miki,Taka-Aki Asoh,Hiroshi Uyama

17:55 1O20 Unusual Role of Alkali Metal Counterions on Dynamics of Ionic Groups in Carboxylate Polyisoprene Ionomer
Yohei Miwa,Koki Hasegawa,Yu Shinke,Taro Udagawa,Shoichi Kutsumizu

Tue. Sep 7

S12. Precisely Designed Network Polymers for Next-generation Materials

Koji Arimitsu, presiding

9:10	2O01	Evaluation of Curing Behavior of Multifunctional Hyperbranched Polymers and Their Application to Dismantlable Adhesives with Interfacial Debonding Seidai Okada,Keita Katagi,Eriko Sato
9:35	2O02	Design of polyester/silica composite network and chemical recycling utilizing transesterification Takahiro Kimura,Mikihiro Hayashi
10:00	2O03	Modification of Polybenzoxazine with Boronic Acids Yuki Tsukamoto,Daisuke Aoki,Hideyuki Otsuka

Hideyuki Otsuka, presiding

10:25	2O04	Synthesis of Thermosetting Poly(phenylene sulfide) Derivatives and Its Partially Miscible Polymer Blends with Nylon 6 Seigo Watanabe,Teru Takayama,Tomohiro Miura,Kenichi Oyaizu
10:50	2O05	Enhancement of anionic UV curing efficiency using chain curing agents Yoshiki Kojima,Daisuke Aoki,Koji Arimitsu
11:15	2O06	Fabrication of organic-inorganic hybrid films having gradient structure by radical-anionic UV curing Yoshiki Shirai,Ayano Sasaki,Daisuke Aoki,Koji Arimitsu
11:40	2O07	Synthesis, Structure Control and Chirality Recognition of Optically Active Acetylene Copolymers Substituted with Benzoxazine Moieties Masahide Goto,Masaki Minami,Hiromitsu Sogawa,Fumio Sanda

Fumio Sanda, presiding

12:55	2O08	Structural analysis of vulcanized natural rubber through rubber-state NMR spectroscopy Masaki Yamano,Yoshimasa Yamamoto,Seiichi Kawahara
13:20	2O09	Analysis of mechanical "fingerprint" of single polymer chain based on mechanical property of polymer gel Tsutomu Indei,Takahiro Matsuda,Tasuku Nakajima,Yukiko Takahashi,Tatiana B. Kouznetsova,Michael Rubinstei,Stephen L Craig,Jian Ping Gong
13:45	2O10	Network Structure and Fracture Mechanism of Epoxy Monoliths and Co-continuous Network Polymers Ren Tominaga,Yasuhito Suzuki,Akikazu Matsumoto

Akikazu Matsumoto, presiding

14:10	2O11	Preparation and Higher-order Structural Characterization of Liquid Crystalline Epoxy Resin for Insulating and Highly Thermal Conducting Resin Rika Marui,Yuta Nabae,Teruaki Hayakawa
14:35	2O12	Phase structures of epoxy / in-situ polymerized methacrylic polymer / Ag filler composites Hajime Kishi,Natsumi Kimura,Ryoko Hara,Kazuyoshii Yamada,Akira Fujita,Hirohiko Furui

Yasuhito Suzuki, presiding

15:25	2O14	Cross-linked Structure and Properties of Cyanate/Epoxy Cured by Thermal Latent Hardener with Aliphatic Amine Structure

Junji Ueyama,Keisuke Ohta,Ryo Ogawa,Akihiko Tsuge,Takeshi Endo

15:50 2O15 Characterization of networked polymers formed by thermal reaction of p-tert-butylcalix[n]arene and bisoxazoline
Morio Yonekawa,Hajime Kimura,Keiko Ohtsuka

Morio Yonekawa, presiding

16:15 2O16 Development of High Heat Resistant Epoxy Resin by Introducing Crosslinking Points into Rigid Mesogenic Moiety
Saki Ota,Miyuki Harada

16:40 2O17 Effect of Curing agent on High Thermal conductivity of Liquid crystalline Epoxy Thermosets with side-chain mesogenic structure
Maki Murai,Miyuki Harada,Tsunehiko Terada,Yu Iihara

Hajime Kishi, presiding

17:05 2O18 Effect of Heterogeneous Structure of Epoxy Resins via Different Curing Processes on Tensile Properties
Mika Aoki,Atsuomi Shundo,Satoru Yamamoto,Taiki Hoshino,Keiji Tanaka

17:30 2O19 Heterogeneous Curing Process and Mechanical Properties of Epoxy Resins
Ryoya Ida,Atsuomi Shundo,Satoru Yamamoto,Keiji Tanaka

17:55 2O20 Creation of reversibly crosslinked tough polymer based on hydrogen bonds between diols
Shogo Ishizaka,Shintaro Nakagawa,Naoko Yoshie

Room Q

Mon. Sep 6

S13. Adhesive Bonding and Polymer Interfaces

9:50 1QSO Introductory Remarks S13
Haruhisa Akiyama

Satoshi Matsuda, presiding

10:00 1Q03 Study on degradation mechanism of carbon fiber reinforced plastic composites by electron spin resonance observation
Kazuhiro Marumoto

10:25 1Q04 Fatigue crack growth of SGA adhesives
Yu Sekiguchi,Chiaki Sato

10:50 1Q05 A simple method for estimating the mechanical residual strength of epoxy adhesives using IR spectra
Kazumasa Shimamoto,Haruhisa Akiyama

Yu Sekiguchi, presiding

11:15 1Q06 Mechanoluminescence visualization on mechanical behavior and strength at adhesive interface
Nao Terasaki,Yuki Fujio

11:40 1Q07 Lap shear adhesion properties of epoxy adhesives under fatigue loading
Satoshi Matsuda,Koji Kishi,Hiroshi Ishida,Kohei Kametaka,Takeshi Kakibe,Hajime Kishi

Shin Horiuchi, presiding

13:20	1Q09	Surface Properties and Depth of Treatment of Polyamide 6 Irradiated by Electron Beams Hiroyuki Nakamura,Takuya Matsumoto,Takashi Nishino
13:45	1Q10	Visualization of Spatial Heterogeneity of Epoxy Resin after Curing by X-ray Scattering coupled with CT Satoshi Kuwata,Mikihito Takenaka,Hiroki Ogawa
14:10	1Q11	Structural analysis of the interface between polymers and metal substrates based on a cyclic molecular probe and X-ray nanobeam Kazuaki Kato,Takeshima Ayumu,Kenichiro Ryu,Kohzo Ito,Masanobu Naito,Taiki Hoshino
14:35	1Q12	Interface structure of epoxy adhesives in humid atmosphere studied by neutron reflectometry Yuwei Liu,Hiroyuki Aoki

Nao Terasaki, presiding

15:25	1Q14	Water penetration behavior at the adhesive interface Naoya Otsuki
15:50	1Q15	Study of aluminum/epoxy adhesion mechanism by STEM-EELS Shin Horiuchi,Yida Liu,Haruhisa Akiyama,Kouki Akaike
16:15	1Q16	Characterization of phase distribution on adhesion interface by localized thermal analysis YIDA LIU,SHIN HORIUCHI,HARUHISA AKIYAMA

Haruhisa Akiyama, presiding

16:40	1Q17IL	Surface treatment of polymers by atmospheric pressure plasma: from lab scale trials to large scale applications Christoph Regula,Joerg Ihde,Uwe Lommatzsch

Tue. Sep 7

S13. Adhesive Bonding and Polymer Interfaces

Toshiaki Miura, presiding

9:10	2Q01	Data-driven development of functional adhesive Masanobu NAITO
9:35	2Q02	Curing reaction kinetics of epoxy/amine at quartz interface Ko Yamaguchi,Daisuke Kawaguchi,Satoru Yamamoto,Keiji Tanaka
10:00	2Q03	Theoretical Study on Adhesive Interfaces in Electronics Yuta Tsuji,Taiki Baba,Naoaki Tsurumi,Hiroyuki Murata,Noriyuki Masago,Kazunari Yoshizawa

Masanobu Naito, presiding

10:25	2Q04	Simulation study of the adhesion behaviors at the interfaces between metal and epoxy resin networks Toshiaki MIURA,Maki FUNADA,Yukihiro SHIMOI,Hiroshi MORITA
10:50	2Q05	Photo-reversible adhesives based on solid-liquid phase transition of azopolymers Shotaro Ito,Haruhisa Akiyama
11:15	2Q06	Dismantling adhesion interface induced by thermo/photocleavable molecular layer Miho Aizawa,Haruhisa Akiyama,Yoko Matsuzawa

Shotaro Ito, presiding

12:55	2Q08	Fabrication of hydrogel electrodes with wrinkle structures by adhesion of conductive film and hydrogel Koki Tsujita,Taka-Aki Asoh,Hiroshi Uyama
13:20	2Q09	Application of polyrotaxanes having polymerizable group and crystallizable polymer chain to functional adhesives Airi Ueda,Eriko Sato,Shota Ando,Koichi Mayumi,Kohzo Ito
13:45	2Q10	Topological Adhesion of Polymer Networks Using Orthogonal Dynamic Covalent Linkages Sae Sakamoto,Disuke Aoki,Hideyuki Otsuka

Haruhisa Akiyama, presiding

14:10	2Q11	Structural adhesive for multi-material based on Epoxy resin / Silyl-terminated polyether hybrid system Shingo Yano,Hideharu Hashimukai
14:35	2Q12	Curing Behavior and Adhesive Properties of Epoxy Adhesives with Phosphorus-Containing Monofunctional Epoxy Shiori Asada,Miyuki Harada,Yuka Mino

S14. Molecular Thin-Film Devices

15:15	2QSO	Introductory Remarks S14 Kiyoshi Yase

Kiyoshi Yase, presiding

15:25	2Q14IL	Development of printable semiconducting materials for high performance thin film transistors Yong-Young Noh
16:15	2Q16	Structures and Growth Mechanisms of Thin Molecular Films Atsushi Kubono

Yuji Yoshida, presiding

16:40	2Q17	Fabrication Techniques of Molecular Thin Films: LB films and Self-assembled Molecular Layers(SAMs) Takao Ishida
17:05	2Q18	Fabrication of Molecular Thin Films: Physical Vapor Deposition Kiyoshi Yase
17:30	2Q19	Measuring incident molecular temperature during vacuum deposition of organic thin films Ryosuke Matsubara,Takeshi Azuma,Takahiro Abe,Atsushi Kubono
17:55	2Q20	Evaluation of Molecular Thin-Film Masato Yamamoto,Yasushi Yamamoto

Wed. Sep 8

S14. Molecular Thin-Film Devices

Atsushi Kubono, presiding

9:10	3Q01	Research Trend and Future Direction for Organic Photovoltaic Cells Yuji Yoshida

9:35	3Q02	Development of naphthobisthiadiazole-based polymers for high-performance organic solar cells Tsubasa Mikie,Shota Suruga,Tomokazu Morioku,Hyong Do Kim,Hideo Ohkita,Itaru Osaka
10:00	3Q03	Improvement of Crystallinity and Photovoltaic Performance in Thiazolothiazole-based Polymers by Intramolecular Non-Covalent Interactions Kodai Yamanaka,Tsubasa Mikie,Masahiko Saito,Hyung Do Kim,Hideo Ohkita,Itaru Osaka
	Kenji Ishida, presiding	
10:25	3Q04	Polarized electroluminescence devices with orientated conjugated-polymers by friction transfer method Nobutaka Tanigaki
10:50	3Q05	Thin-Film Technology and Thermoelectric Materials Research Masakazu Nakamura
11:15	3Q06	Excitonic Properties in Fused-Ring π-Conjugated Molecules with Different Aggregated States Hiroya Yamada,Masahiko Saito,Itaru Osaka,Hideo Ohkita
11:40	3Q07	Improved Hole Transport in Crystalline Conjugated Polymers Blended with Polystyrene with Different Molecular Weights Yuya Horiuchi,Hyung Do Kim,Hiroki Ogawa,Mikihito Takenaka,Hideo Ohkita
	Takao Ishida, presiding	
12:55	3Q08	Development of Pyroelectric Infrared Sensor using Ferroelectric Molecular Thin Film Kenji Ishida
13:20	3Q09	Design and Synthesis Proton-dopable Organic Semiconductors Chenzhu Yin,Masakazu Mukaida,Shohei Horike,Kazuhiro Kirihara,Zhenya Zhang,Qingshuo Wei
13:45	3Q10	Computer simulation of crystal growth of organic molecules Toshihiro Shimada,Takashi Yanase,Hirohiko Tanoguchi,Yang Xiaoran,Taro Nagahama
14:10	3Q11	Single crystal growth of large aromatic molecules by napthtalene flux methods Hirohiko Tanoguchi,Takashi Yanase,Taro Nagahama,Toshihiro Shimada

Room R

Mon. Sep 6

D. BIOPOLYMERS AND BIORELATED POLYMERS

	Kosuke Okeyoshi, presiding	
10:00	1R03	Modulation of two-dimensional assembly patterns of protein needles by engineering the distal ends Kosuke Kikuchi,Tatsuya Fukuyama,Tadaomi Furuta,T. Yusuke Maeda,Takayuki Uchihashi,Takafumi Ueno

10:25	1R04	Single-chain variable fragment-bearing "navigator" to switch β2-microglobulin metabolism to liver Akihisa Otaka,Yusuke Kambe,Ken Kuwahara,Takahiko Nakaoki,Mitsuru Sato,Tetsuji Yamaoka
10:50	1R05	Controlled Assembly and Mineralization Ability of Filamentous Virus Michihiro Tanaka,Toshiki Sawada,Takeshi Serizawa
		Akihiro Nishiguchi, presiding
11:15	1R06	Efficient Complex Formation of Functional Molecules with Biomedical Polymers Based on the Specific Affinity of Peptides Kenta Moro,Misaki Takizawa,Toshiki Sawada,Tetsuya Kadonosono,Takeshi Serizawa
11:40	1R07	Effect of the skin layer structures on the morphology of wrinkles on the chitosan film surfaces Hironori Izawa,Shota Ishisaka,Yumi Nakamura,Shinsuke Ifuku
		Toshiki Sawada, presiding
12:55	1R08	Analysis of nucleation distribution in meniscus splitting from aqueous mixture of cationic polysaccharides and preparation of oriented membranes Koji OGURA,Isamu SAITO,Mitsuo HARA,Yuka IKEMOTO,Kosuke OKEYOSHI
13:20	1R09	Controlled synthesis of alternating glycopolymers as a chondroitin sulfate C mimic by a combination of RAFT copolymerization and sequential post-click reactions Ryohei Saiga,Munehisa Tomihama,Jin Motoyanagi,Masahiko Minoda
13:45	1R10	Development of aqueous-stable polymers bearing activated esters for post-polymerization modification in water Sotaro Tsuji,Kazuma Kobayashi,Tomonari Tanaka
		Akihisa Otaka, presiding
14:10	1R11	Design of Polymer Structure of Star Glycopolymers for the Influenza Virus Masanori Nagao,Teruhiko Matsubara,Yu Hoshino,Toshinori Sato,Yoshiko Miura
14:35	1R12	Hydrogel adhesion by complex formation of water-soluble cellulose derivative and polyanion Yuki Shioji,Taka-Aki Asoh,Hiroshi Uyama
		Hironori Izawa, presiding
15:25	1R14	Development of an alkyl group modified Alaska pollock-derived gelatin sheet enabled for sealing lung defect Hiroaki Ichimaru,Yosuke Mizuno,Xi Chen,Akihiro Nishiguchi,Tetsushi Taguchi
15:50	1R15	Development of Biodegradable Particles for Tissue Adhesion and Perforation Closure in Early Gastrointestinal Cancer Removal Sites Shima Ito,Akihiro Nishiguchi,Fumisato Sasaki,Hidehito Maeda,Masayuki Kabayama,Akio Ido,Tetsushi Taguchi
16:15	1R16	Development of urease immobilized nanofiber meshes for the removal of uremic toxins Makoto Sasaki,Yihua Liu,Mitsuhiro Ebara
		Taka-aki Asoh, presiding
16:40	1R17	Degradation induced removal of adsorbed proteins from the surfaces of PEG-grafted degradable thermoresponsive hydrogels Naoki Kamei,Tatsuki Kamiya,Syuuhei Komatsu,Akihiko Kikuchi

17:05	1R18	Evaluation of electrical responsiveness of repeatedly stretchable electrically-triggered shape-memory polymer Kazusa NAKAMURA,Akihiko KIKUCHI,Mitsuhiro EBARA,Koichiro UTO
17:30	1R19	Properties of waterborne polyurethane film and its biocompatibility Ayao Nishimura,Minari Shiren,Masahito Nishiura,Masaru Tanaka,Shingo Kobayashi

Tue. Sep 7

D. BIOPOLYMERS AND BIORELATED POLYMERS

Shin-ichi Sawada, presiding

9:10	2R01	Development of polymer-based anti-epileptic drug Yutaka Ikeda,Yuya Tajika,Yukio Nagasaki
9:35	2R02	Polymeric Iron Chelators Overcoming Tumor Immune Escape Haochen Guo,Takahiro Nomoto,Makoto Matsui,Yan Ming Voon,Yi-Jung Sung,Yutaka Miura,Nobuhiro Nishiyama
10:00	2R03	Construction of protein-loaded ternary complex comprising tannic acid and phenylboronic acid conjugation polymer for efficient protein delivery. Yuto Honda,Takahiro Nomoto,Makoto Matsuo,Makoto Miura,Nobuhiro Nishiyama
10:25	2R04	Osteoclastogenesis inhibition by polyphosphoesters Kohji Takahashi,Yasuhiko Iwasaki

Kanjiro Miyata, presiding

10:50	2R05	Cell uptake mechanism and anticancer activity test of DOX-encapsulating DNA quadruplex mesogels Haruki TANAKA,Daichi INUI,Kohei TATSUMI,Kana TERAGAMI,Yuichi OHYA,Akinori KUZUYA
11:15	2R06	Formation of low-molecular-weight polysaccharide/oligonucleotides complexes by optimization of polysaccharide chain length and evaluation of their bioactivity Yuki Hata,Kazuki Sumiya,Hiroto Izumi,Kazuo Sakurai
11:40	2R07	Design and function of immunoliposomes with immune checkpoint single chain antibody Keigo Nakamura,Risako Miura,Mitsuru Ando,Shin-ichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi

Yutaka Ikeda, presiding

12:55	2R08	Design of saccharide chain conjugated polylysine nanogels and evaluation of their functions as nucleic acid delivery carriers Kenta Okada,Tomoki Nishimura,Shinichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi
13:20	2R09	Preparation of Inorganic coated Vesicles having Target Recognition Ability and Application for DDS Carriers Kazuho Atsumi,Masahiro Higuchi,Syogo Matsubara
13:45	2R10	Preparation of deformable nanocapsules by living radical polymerization inside the liposomes Yuuka Fukui,Arisa Fukui,Keiji Fujimoto

Yuji Tsuchido, presiding

14:10	2R11	Preparation of lipid nanodiscs using amphiphilic cyclic peptide and their encapsulation of hydrophobic substances Hiroki Miwa,Ryosuke Nagao,Isamu Akiba
14:35	2R12	Fine-tuning of cationic block copolymer structures for enhanced blood circulation of single-oligonucleotide-loaded ultrasmall nanocarriers Hiroyuki Chaya,Mitsuru Naito,Masaru Cho,Kazuko Toh,Beob Soo Kim,Hyun Jin Kim,Kotaro Hayashi,Shigeto Fukushima,Kazunori Kataoka,Kanjiro Miyata
	Isamu Akiba, presiding	
15:25	2R14	Nanocapsules composed of polymers with pendant phosphorylcholine groups Sayaka Fujii,Kazuhiko Ishihara,Shin-ichi Yusa
15:50	2R15	Peptide assembly reversible-transforming between kinetic and thermodynamic morphology Mohamed Elafify,Yoshihiro Ito,Motoki Ueda
16:15	2R16	Thermoresponsive-cationic block copolymer brush for stem cell separation Kenichi Nagase,Goro Edatsune,Sota Yamada,Hideko Kanazawa
	Kenichi Nagase, presiding	
16:40	2R17	Adhesion of mesenchymal stem cell and anti-thrombogenic property of the surface immobilized with heparin and peptide ligand Yuki Arichi,Ryo Minami,Sachiro Kakinoki
17:05	2R18	Design of Enzymatically Degradable Hydrogels for Exploring Mechanical Response of Human Mesenchymal Stem Cells Riho TANIMOTO,Mitsuhiro EBARA,Koichiro UTO
17:30	2R19	Fabrication of engineered tissue using porous polymer culture substrate consisting of cell adhesion layer and medium retaining layer Naoya Takeda,Mai Onuki,Mari Nagasawa,Kenta Iitani,Yuji Tsuchido

Wed. Sep 8

D. BIOPOLYMERS AND BIORELATED POLYMERS

Mitsuhiro Ebara, presiding

9:10	3R01	Development of Plastic Antibodies by Incorporating of Homogeneous Synthetic Oligomer Ligand as Molecular Recognition Sites into Nanogel Particles Yusuke Saito,Masanori Nagao,Yu Hoshino,yoshiko Miura
9:35	3R02	On-Off Control of Energy Conversion by Assembling Autonomously Oscillating Hydrogel Microspheres Kohei Inui,Takumi Watanabe,Haruka Minato,Shusuke Matsui,Keito Ishikawa,Ryo Yoshida,Daisuke Suzuki
10:00	3R03	Growth and orientation mechanisms of oriented gelatin network by self-assembly Kazuki Murai,Kohei Kawaguchi,Syuuhei Komatsu,Yoshihiro Nomura,Akihiko Kikuchi
	Haruka Minato, presiding	
10:25	3R04	Design of Apoptotic Cell -inspired anti-inflammatory MPS polymers to control of the inflammatory environment in microglia cell Akari Tasaki,Yihua Liu,Mitsuhiro Ebara

10:50	3R05	Antimicrobial properties of cicada wing-inspired poly(vinyl alcohol)-based films Kazuma Fujimoto,Yohei Kotsuchibashi
11:15	3R06	Formation of oligonucleotide-crosslinked polysaccharide nanogels and bio-functions Tomoya Araike,shin-ichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi

Masanori Nagao, presiding

11:40	3R07	Near infrared fluorescence detecting avidin-biotin interactions on chemically modified carbon nanotubes Yoshiaki Niidome,Rie Wakabayashi,Masahiro Goto,Tsuyohiko Fujigaya,Tomohiro Shiraki
12:55	3R08	The model of intracellular liquid-solid phase transition morphological change by using citrulline polypeptide Shouhei Nomura,Naohiko Shimada,Atsushi Maruyama
13:20	3R09	Preparation of capsules with SrxCa1-xCO3 shells on thermoresponsive degradable polymer-based coacervates. Yuya Mizuno,shuuhei Abe,Shuuhei Komatsu,Akihiko Kikuchi

Room S

Mon. Sep 6

S15. New Strategy for Biosupramoleclar Materials

9:50	1SSO	Introductory Remarks S15 Teruyuki Komatsu

Hiroyasu Yamaguchi, presiding

10:00	1S03	In vivo application of supramolecular hemoglobin model complexes as a biological gas scavenger Hiroaki Kitagishi,Mao Qiyue
10:25	1S04	Photocatalytic CO2 Reduction using Supramolecular Zn(II) Porphyrins as Photosensitizers Yusuke Kuramochi
10:50	1S05	Construction of supramolecular assemblies containing hexametric hemoprotein as a building unit Koji Oohora

Keiji Numata, presiding

11:15	1S06	Effect of Alanine substitution at the 2-fold symmetric interface of the ferritin cage JIAXIN TIAN,Takafumi Ueno,Satoshi Abe,Basudev Maity,Ta ke shi Murata,Kenji Yasuda
11:40	1S07	Protein Crystallization using Cell-free Protein Synthesis and Structural Analysis Satoshi Abe,Takafumi Ueno

Satoshi Arai, presiding

12:55	1S08	Synthesis and O2 affinity control of hemoglobin-albumin trimer as an artificial O2 carrier with cooperativity

		Yoshitsugu Morita,Teruyuki Komatsu
13:20	1S09	Hemoglobin-PEG alternating copolymer synthesized via entropy-driven supramolecular ring-opening polymerization Takashi Matsuhira,Hiromi Sakai
13:45	1S10	Construction of kinesin driven microtubule swarm as a molecular transporter to load-deliver-unload cargo Mousumi Akter,Jakia Jannat Keya,Arif Md. Rashedul Kabir,Daisuke Inoue,Henry Hess,Kazuki Sada,Hiroyuki Asanuma,Akinori Kuzuya,Akira Kakugo
	Masaki Nakahata, presiding	
14:10	1S11	Force Determination of Circular Shaped Microtubules Swarm Driven by Kinesin Using Electromagnetic Tweezers MST Rubaya Rashid,Mousumi Akter,Arif Md. Rashedul Kabir,Jakia Jannat Keya,Kazuki Sada,Akira Kakugo
14:35	1S12	Development of N-terminal Specific Protein Modification Technology for Precise Construction of Protein-based Materials Akira Onoda,Nozomu Inoue,Eigo Sumiyoshi,Shoichi Kitai,Takashi Hayashi
15:25	1S14	Self-assembly of crystalline molecules directed by excluded volume and overlap of polymers Yuuki Hata,Xiang Li,Ung-il Chung,Shingo Nakamura,Takamasa Sakai
15:50	1S15	Synthesis of Polymer Microtube Motors by Photopolymerization in Template Ryo Kato,Tomonao Sugawara,Teruyuki Komatsu
	Teruyuki Komatsu, presiding	
16:15	1S16	Temperature-induced supramolecular morphological transition composed of two kinds of amphiphilic polypeptides containing different hydrophilic polypeptoids Hirotaka Uji,Shota Yoshida,Hiroyasu Masunaga,Keiji Numata,Shunsaku Kimura
16:40	1S17IL	Bioactive Nanotubes and Biomimetic Nanostructured Interfaces based on the Layer-by-Layer Assembly of Proteins and Polyelectrolytes in Nanochannels Sophie Demoustier-Champagne

Tue. Sep 7

S15. New Strategy for Biosupramoleclar Materials

Takahiro Muraoka, presiding

9:10	2S01	Biosensor application of aptamer modified graphene Yuko Ueno
9:35	2S02	Development of Bio-Supramolecular Materials Formed by Mucin-Boronic Acid Interaction for Application to Culture of Intestinal Bacteria Masaki Nakahata,Keishi Saito,Naoki Tominaga,Masaru Kojima,Shinji Sakai
10:00	2S03	Photo-induced out-of-equilibrium patterning in a self-sorting supramolecular double network hydrogel Ryou Kubota,Keisuke Nakamura,Wataru Tanaka,Kei Sada,Itaru Hamachi

10:25	2S04	Mechano-responsive hydrogels driven by dissociation of supramolecular bonding Akihide Sugawara,Taka-Aki Asoh,Yoshinori Takashima,Akira Harada,Hiroshi Uyama

Shoichiro Asayama, presiding

10:50	2S05	Double-stranded DNA recognition of peptide nucleic acid (PNA) via invasion complex formation Yuichiro Aiba,Masanari Shibata,Kota Ito,Masaki Hibino,Shinya Ariyasu,Osami Shoji
11:15	2S06	Creation of Novel Function of Nucleases by Bio-Supramolecular Strategy with Chimeric Artificial Nucleic Acid Masato Inagaki,Nozomu Ishiwata,Ryota Azuma,Masaki Nishijima,Hironori Hayashi,Yasuyuki Araki,Eiichi Kodama,Takehiko Wada
11:40	2S07	Sensitive detection of cancer cells by the successive strand exchange of nucleic acids Yusuke Kitamura,Shunpei Sakamoto,Yuta Nakashima,Masaaki Iwatsuki,Keiichiro Yasuda,Seitaro Kumamoto,Yousuke Katsuda,Hideo Baba,Yoshitaka Nakanishi,Toshihiro Ihara

Keitaro Sou, presiding

12:55	2S08	Endocytosis-like Vesicle Fission Induced by a Photoresponsive Molecular Machine Noriyuki Uchida,Yunosuke Ryu,Takahiro Muraoka
13:20	2S09	Control of intracellular delivery and antigen-specific immune responses using liposomes containing pH-responsive dendron-bearing lipids Eiji Yuba,Yoshikatsu Sugahara,Yuta Yoshizaki,Takeyuki Shimizu,Keiko Udaka
13:45	2S10	Effects of Glycon and Temperature on Self-Assembly Behaviors of alpha-Galactosyl Ceramide Yasuhito Koyama,Ryo Miyazaki,Mahmuda Nargis,Abu Bin Ihsan,Noriyuki Nakajima,Masahiro Hamada
14:10	2S11	Biomolecule-integrated nano-interfaces for highly sensitive detection of extracellular vesicles Hirobumi Sunayama,Toshifumi Takeuchi

Teruyuki Komatsu, presiding

14:35	2S12	A light-modulated nanovesicle system enabling to control the spatiotemporal dynamics of bioactive molecules Satoshi Arai,Satya Sarker

Room T

Mon. Sep 6

S16. Working Biomedical Polymers: From the Viewpoint of Time/Space and Functions/Actions

9:50	1TSO	Introductory Remarks S16 Tatsuro Goda,Akihiro Nishiguchi

Michiya Matsusaki, presiding

10:00	1T03	Design and function of tissue adhesive particles that prevent complications after the surgery of early-stage gastrointestinal cancer Akihiro Nishiguchi,Shima Ito,Fumisato Sasaki,Hidehito Maeda,Masayuki Kabayama,Akio Ido,Tetsushi Taguchi
10:25	1T04	Inhibition of inflammatory edema through the treatment of lanoconazole-loaded emulsions stabilized with cellulose nanocrystals grafted with polyphosphoesters Suphatra Hiranphinyophat,Akihisa Otaka,Syuji Fujii,Yasuhiko Iwasaki
10:50	1T05	Development of a surgical adhesive that has an anti-adhesion effect after curing Tetsushi Taguchi,Ryo Mizuta,Yosuke Mizuno,Xi Chen
		Mitsuhiro Ebara, presiding
11:15	1T06	Cell surface modification of Neural Progenitor Cells for Ischemic Stroke Treatment Isha Goel,Yuka Yamauchi,Koichi Kato,Yuji Teramura
11:40	1T07	Design of an azobenzene-bearing hydrogel which exhibits photo-induced phase transition behavior and its development towards mechanobiology Kenta Homma,Alice Ching-Hsuan Chang,Ryota Tamate,Shota Yamamoto,Takeshi Ueki,Jun Nakanishi
		Akihiro Nishiguchi, presiding
12:55	1T08	Development of Polymer Nanomaterials That work at Microenvironment on Cell Surfaces and Their Biomedical Applications Michiya Matsusaki
13:20	1T09	Application of black phosphorus nanosheets/gelatin composite porous scaffolds for photothermal ablation of breast tumor cells and adipogenic differentiation of mesenchymal stem cells Guoping Chen,Linawati Sutrisno,Naoki Kawazoe
13:45	1T10	Analysis of osteoinductive ability of carbonate apatite capsules based on degradable coacervate. Syuuhei Komatsu,Shuhei Abe,Taka-Aki Asoh,Akihiko Kikuchi
14:10	1T11	Synthesis and functional evaluation of polymer-conjugated lipid for cell surface modulation of endothelium Yuji Teramura,Kazuhiko Ishihara
14:35	1T12	Engineering of the polymer inhibitor of the cancer cell proliferation by the synergistic inhibition of the co-localized enzyme cluster on the cell membrane Masahiko Nakamoto,Yuki Koba,Michiya Matsusaki
		Atsushi Mahara, presiding
15:25	1T14	Permeation and transport through epithelial barriers by phospholipid-mimicking amphiphilic polymers Tatsuro Goda
15:50	1T15	Design of Sulfobetaine Polymers with Enhanced Permeation into Three-Dimensional Cell Aggregates Nobuyuki Morimoto,Yuki Miura,Masaya Yamamoto
16:15	1T16	Development of a method for biomaterials using designed cells Tsuyoshi Kimura,Shota Toda,Hanako Maeda,Yoshihide Hashimoto,Takahide Matsushima,Wataru Nomura,Hirotsugu Asahara,Akio Kishida
		Yuji Teramura, presiding

16:40	1T17	Microvasculature MR imaging by self-assembled formation of Gd-chelate conjugated 8-arm polyethylene glycol Atsushi Mahara,Keigo Shima,Shigeyoshi Saito,Yoshiaki Hirano,Tetsuji Yamaoka
17:05	1T18	Design and evaluation of antibody-smart polymer conjugates by "Grafting from" method Erika YOSHIHARA,Nabil Ahmed,Michihiro IIJIMA,Mistuhiro EBARA
17:30	1T19	Control over cell microenvironment for hair regenerative medicine Junji Fukuda

Tue. Sep 7

S16. Working Biomedical Polymers: From the Viewpoint of Time/Space and Functions/Actions

Tsuyoshi Kimura, presiding

9:10	2T01	Design of Bio-friendly Nanosheets as an Observation Window for Deep Tissue Imaging Yosuke Okamura,Hong Zhang,Kenji Yarinome,Konoha Shiratori,Hiroaki Mitsuhashi,Taiga Takahashi,Kohei Otomo,Ryosuke Kawakami,Tomomi Nemoto
9:35	2T02	Functionalization of nanofluidic devices using polymers Yan Xu
10:00	2T03	Expression of physiological functions of HepG2 spheroid using flexible floating hydrogel membrane as cell culture scaffold Atsushi Tsuyukubo,Kimio Sumaru,Kana Morishita,Toshiyuki Kanamori

Tatsuro Goda, presiding

10:25	2T04	Polymer nanosheet for low-adhesive sEMG measurement Marimo Ito,Tatsuhiro Horii,Toshinori Fujie
10:50	2T05	Temporal Response Control of Neuromorphic Devices Based on Mixed Conducting Polymers Shunsuke Yamamoto,George G. Malliaras
11:15	2T06	Bioiontronic devices for interactive communication with biology Takeo Miyake

Satoshi Uchida, presiding

12:55	2T08	Working biomedical polymer capitalizing on "borono-lectin" based chemistry for cross-talking Akira Matsumoto,Takuya Miyazaki,Khan Thahomina,Taiki Miyazawa,Horacio Cabral,Yuji Miyahara
13:20	2T09	Activation of immunocytes in temperature-responsive injectable polymer gel and the application for to cancer immunotherapy Kenta Horii,Yuta Yoshizaki,Nobuo Murase,Yuichi Ohya
13:45	2T10	Development of cell nuclear-targeting nanocarriers that mimic function of importin Yuta Hamada,Mitsuo Inui,Yoshinori Sano,Koji Nagahama

Shoichiro Asayama, presiding

14:10	2T11	Development of cancer-specific prodrug polymeric micelles and their therapeutic effect Yuki Mochida,Horacio Cabral,Kazunori Kataoka

14:35 2T12 Intracellular delivery of oligonucleotide with reductively degradable cationic gel particle
Akifumi Kawamura,Shun Fujisawa,Takashi Miyata

Yuki Mochida, presiding

15:25 2T14 Molecular Design of Zn2+/pDNA Co-delivery Carriers to Induce Muscle Cell Differentiation by Working Zn2+ Timely
Shoichiro Asayama,Yuki Kobayashi

15:50 2T15 Activation of antigen presenting cells and induction of cancer immunity by liposomes containing pH-sensitive polysaccharides and cationic lipids
Eiji Yuba,Yuna Kado,Nozomi Kasho,Yukiya Kitayama,Atsushi Harada

Akira Matsumoto, presiding

16:15 2T16 Controlling the biodistribution of nanomedicines by transient coating of liver sinusoidal walls using 2-armed PEG-oligolysine
Satoshi Uchida

16:40 2T17 Recent advances of Self-Organizing Antioxidants (RNPs)
Yukio Nagasaki

Tatsuro Goda, presiding

17:30 2T19IL Protein engineering approaches to control immune system to achieve safe and effective cancer immunotherapy
Jun Ishihara,Jeffrey Hubbell

Wed. Sep 8

S16. Working Biomedical Polymers: From the Viewpoint of Time/Space and Functions/Actions

Naohiko Shimada, presiding

9:10 3T01 Plasticized Poly(vinyl chloride) for Reducing Plasticizer Migration
Junji WATANABE,Fumiya TAKAGISHI,Yuki HIROTA

9:35 3T02 Controlled molecular arrangements and protein adsorption properties of alkyl beta-celluloside assemblies
Takeshi Serizawa,Shoki Tanaka,Saeko Yamaguchi,Moe Amitani,Toshiki Sawada,Yukiko Tanaka,Masaru Tanaka

10:00 3T03 Interaction at nanoscales induced by anti-biofouling self-assembled monolayers
Tomohiro Hayashi

10:25 3T04 Shape control of degradable core-corona type particles around body temperature
Satoshi YAMADA,Syuuhei KOMATSU,Akihiko KIKUCHI

Takeshi Serizawa, presiding

10:50 3T05 Design Smart Vinyl Polymers Suspended Pyrrolidone Ring : Thermo-responsibility and Cell Affinity in Water
Shinnosuke Nishimura,Kei Nishida,Tomoya Ueda,Masaru Tanaka

11:15 3T06 Design of Visible Light- and Temperature-responsive Polymers with Controllable Physical and Chemical Properties and Their Application to Cell Regulation
Masaaki Okihara,Akifumi Kawamura,Takashi Miyata

11:40	3T07	Spatiotemporal Control of Cell Aggregation and Protein Recruitment by using photoresponsive ureido polymers Naohiko Shimada,Nao Ikeuchi,Takuya Komachi,keiji Murayama,Hiroyuki Asanuma,Atsushi Maruyama

Room U

Mon. Sep 6

S17. Bio-Related Polymers for Understanding, Mimicking, and Controlling The Hierarchical Bioinformation

9:50	1USO	Introductory Remarks S17 Koji Nagahama,Hideyuki Mitomo
		Hideyuki Mitomo, presiding
10:00	1U03	Covalent Cell-Loading Injectable Hydrogel Scaffold Significantly Promotes Tissue Regeneration in vivo Compared with a Conventional Physical Cell-Loading Hydrogel Scaffold Koji Nagahama,Yuka Kimura,Natsumi Ueda
10:25	1U04	Design of biomaterials to cover the incision by understanding the information of intestinal tissues Shinji Takeoka,Mayu Okuda
10:50	1U05	Design of temperature-responsive polymer nanoparticles for cancer therapy Hiroyuki Koide,Kazuhiro Saito,Yu Hoshino,Kenneth Shea,Naoto Oku,Tomohiro Asai
		Shinji Takeoka, presiding
11:15	1U06	Immunosuppression by sialic acid-containing glycopolymers via interacting with Siglec-E. Takato Ishida,Takahiro Oh,Masanori Nagao,Yu Hoshino,Yoshiko Miura
11:40	1U07	Delivery into lymph node-resident T cells and tumor cells by surface modification of the anionic terminal dendrimers Chie Kojima,Misaki Nishio,Kento Nagai,Akikazu Matsumoto
		Kousuke Tsuchiya, presiding
12:55	1U08	Preparation of polysaccharide composite cell scaffolds mimicking in vivo environment and culture of bone marrow-derived mesenchymal stem cells therein Kazutoshi Iijima,Kazuki Yamauchi
13:20	1U09	Immobilization of cell-recognition ligands to desired compartments on the surface of a degradable material using DNA-Tags for favorable spatial arrangements of various cells Yuichi Ohya,Hiromichi Sumida,Yuta Yoshizaki,Akinori Kuzuya
13:45	1U10	Functional analysis of peptide inducing cell aggregate Ikumi Amimoto,Rino Watanabe,Yudai Futaki,Yoshiaki Hirano
		Kazutoshi Iijima, presiding
14:10	1U11	Dissociation of cellulose network in plant cell walls by zwitterionic polypeptides Kousuke Tsuchiya,Kayo Terada,Keiji Numata

14:35 1U12 Design of Protein Needle Materials Encapsulated in In-cell Protein Crystals
THUC TOAN PHAM,Satoshi ABE,Takafumi UENO

Naohiko Shimada, presiding

15:25 1U14 Stabilization of microtubules by encapsulation of tetrameric fluorescent proteins using Tau-derived peptides
Yurina Sueki,Hiroshi Inaba,Takashi Iwasaki,Kabir Arif Md. Rashedul,Akira Kakugo,Kazuki Sada,Kazunori Matsuura

15:50 1U15 Stabilization of microtubules by photocrosslinkable Tau-derived peptide
Soei Watari,Hiroshi Inaba,Arif Md. Rashedul Kabir,Akira Kakugo,Kazuki Sada,Kazunori Matsuura

16:15 1U16 Creation of artificial viral capsid equipped with membrane proteins mimicking enveloped virus
Hiroto Furukawa,Keigo Nakamura,Hiroshi Inaba,Yoshihiro Sasaki,Shin-ichi Sawada,Kazunari Akiyoshi,Kazunori Matsuura

Hiroshi Inaba, presiding

16:40 1U17 Hierarchical assembly and function of membrane protein-mimetic multiblock amphiphiles
Kohei Sato,Ryo Sasaki,Kazuhito Tabata,Hiroyuki Noji,Kazushi Kinbara

17:05 1U18 Chaperone-polymer decoration for controlled lipid membrane responses
Shutaro Takahashi,Takuro Ochiai,Wakako Sakamoto,Tomoka Takenaka,Naohiko Shimada,Atsushi Maruyama

17:30 1U19 Hierarchization of polyion complex vesicle for mimicry of cellular organelles
Tomoki Maruyama,Yiwei Liu,Takeshi Mori,Yoshiki Katayama,Akihiro Kishimura

17:55 1U20 Molecular permeable behavior of the polymer vesicle composed of thermoresponsive polypeptoid-oligosaccharide block polymer
Yota Okuno,Tomoki Nishimura,Yoshihiro Sasaki,Kazunari Akiyoshi

Tue. Sep 7

S17. Bio-Related Polymers for Understanding, Mimicking, and Controlling The Hierarchical Bioinformation

Daisuke Miyoshi, presiding

9:10 2U01IL Dehydration protection by a tardigrade-desiccation protein revealed at the residue level by liquid-observed vapor exchange NMR
Gary J. Pielak,Candice J Crilly,Julia A Brom,Jonathan E Eicher

Koji Nagahama, presiding

10:00 2U03IL Hydration and phase separation of non-canonical nucleic acid structures
Daisuke Miyoshi

10:50 2U05 Development of oligonucleotide probe for imaging of sodium ion in living cell
Shinobu Sato,Ayano Udo,Shigeori Takenaka

11:15 2U06 Development of BRET system using DNA as a linker
Fumiaki Takano,Toshiki Inui,Akinori Kuzuya

11:40	2U07	Supramolecular materials composed of distinct self-assembled structures of peptides and nucleic acids anchored by saccharides Masato Ikeda
		Takehiko Wada, presiding
12:55	2U08	Regulation of conformational dynamics of guanine quadruplexes DNA by Mg2+ ions Shuntaro Takahashi,Naoki Sugimoto
13:20	2U09	Comparison of dissociation behavior in DNA hybridization between single-molecule observation and ensemble observation Hiroyuki Furusawa,Kenjiro Yazawa
13:45	2U10	Stimulus-responsive orientation change of gold nanorods using a DNA polymer brush Yu Sekizawa,Hideyuki Mitomo,Chisato Toyokawa,Yusuke Yonamine,Kuniharu Ijiro
		Shigehito Osawa, presiding
14:10	2U11	Creation of Novel Function of Nucleases by Backbone Structural Design of DNA-XNA Chimeras Nozomu Ishiwata,Ryota Azuma,Akira Yano,Masahito Inagaki,Masaki Nishijima,Takeshi Yamamoto,Yasuyuki Araki,Asako Yamayoshi,Takehiko Wada
14:35	2U12	Creation of Functional Artificial Metalloenzymes by Hybridization of Biological and Synthetic Molecules Hiroyasu Yamaguchi,Takuma Adachi,Keisuke Murata,Seiji Yamasaki,Kenji Kohara,Yuichiro Kobayashi,Akira Harada
		Toshiki Sawada, presiding
15:25	2U14	Design of pH-Responsive Polypeptide Gels and Nanoparticles by Entropy Reduction and Regulation of Molecular Binding Ability by Structural Transition Takashi Miyata,Masaaki Kanazawa,Tomoya Iwagaki,Akifumi Kawamura
15:50	2U15	Structure-activity relationship of biologically active calixarene derivatives Kazuma Yasuhara,Mizuki Kaji,Hideto Kibata,Takuto Nakano,Gwenael Rapenne
16:15	2U16	Promoted redox activity through forming locally concentrated state by installing copper complexes into polymer sidechain Shigehito Osawa,Kenichi Kitanishi,Maho Kiuchi,Motoyuki Shimonaka,Hidenori Otsuka
		Kazuma Yasuhara, presiding
16:40	2U17	Development of functions and physical properties of filamentous viruses based on machine learning Toshiki Sawada,Takashi Kishida,Michihiro Tanaka,Takeshi Serizawa
17:05	2U18	Artificial Membrane Protein Complex expressed in Photosynthetic Membrane Takehisa Dewa,Yasushi Suzuki,Takuya Wada,Kaho Hirano,Jun-na Hata,Masaharu Kondo
17:30	2U19	Unraveling dimerization mechanism of N-terminal domain of spider dragline silk protein Nur Alia Oktaviani,Ali Malay,Akimasa Matsugami,Fumiaki Hayashi,Keiji Numata

Room V

Mon. Sep 6

E. POLYMERS AND ENVIRONMENT

Ken-ichi Kasuya, presiding

10:00 1V03 Synthesis and characterization of bio-based polyamides and copolyamides derived from divanillic acid
Kazuma Yagura,Yukiko Enomoto,Tadahisa Iwata

10:25 1V04 Novel Functional Bio-Based Polymers by Precision Polymerization of Caffeic Acid-Derived Styrenes
Shiho Tanizaki,Tomohiro Kubo,Kotaro Satoh

Yukiko Enomoto, presiding

10:50 1V05 Development of Concise Synthetic Methods of Cellulose Derivatives Based on Cellulose Acrylate
Hiroya Okamoto,Tsuyoshi Taniguchi,Motohiro Takekuma,Asami Mashio,Kuo Hong Wong,Hiroshi Hasegawa,Tatsuya Nishimura,Katsuhiro Maeda

11:15 1V06 Preparation and properties of self-healing polymer networks utilizing a bio-based epoxy resin and poly(lipoic acid) having disulfide bonds
Kaito Sugane,Mitsuhiro Shibata

11:40 1V07 Thermal properties of polyurethane foams prepared from liquefied apple residue
Mika Iijima,Hatakeyama Tatsuko,Hatakeyama Hyoe

Tatsuya Nishimura, presiding

12:55 1V08 Double Helix Structures and Water Vapor Sorption Properties of Carrageenan Membranes Derived From Red Algae
Natsumi Hirota,Kazukiyo Nagai

13:20 1V09 Chemically recyclable bio-based polyester composed of bifuran and glycerol acetal
Yuya Tachibana,Senri Hayashi,Naoto Tabata,Ken-ichi Kasuya

13:45 1V10 Control of biodegradability of poly(butylene succinate) via the reductive cleavage of disulfide bonding
Toyokazu Tsutsuba,Moe Shimizu,Yuya Tachibana,Ken-ichi Kasuya

Tomohiro Kubo, presiding

14:10 1V11 Fabrication of multilayer films composed of Cellulose ester derivatives and microbial polyester and assessment of the biodegradability
Jobu Tateiwa,Satoshi Kimura,Hongyi Gan,Tadahisa Iwata

14:35 1V12 Miscibility, degradability and compatibilization of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate)-based polyester blends
Iffa Farahin Jeepery

Kazukiyo Nagai, presiding

15:25 1V14 Mechanistic analysis of photodeformable biobased polyester
Kenji Takada,Tatsuo Kaneko

15:50 1V15 Thermally cross-linked poly(methacrylic acid)-based materials by poly(vinyl alcohol) and their degradability in an oxidizing environment
Yohei Kotsuchibashi,Daiki Kobayashi,Masayuki Kirihara

16:15 1V16 Preparation and characterization of curdlan dried-gel-films with high mechanical strength by strain-induced oriented crystallization of curdlan chemical hydrogels.
Yusuke Matsumoto,Yukiko Enomoto,Tadahisa Iwata

Kenji Takada, presiding

16:40 1V17 Highly ordered structure analyses of high strength and elastic microbial polyester fibers and its marine biodegradability
Taku Omura,Katsuya Komiyama,Sakura tsujimoto,Akira Maehara,Taizo Kabe,Tadahisa Iwata

17:05 1V18 Characterization of a poly(3-hydroxybutyrate)-degrading actinobacterium isolated from plastisphere formed on marine plastic debris
Miwa Suzuki,Yuya Tachibana,Reika Takizawa,Takuya Morikawa,Hiroyuki Takeno,Ken-ichi Kasuya

17:30 1V19 Biodegradation of aliphatic aromatic polyester by a mesophilic actinobacteria Rhodococcus fascians
Phouvilay Soulenthone,Fumihiro Muroi,Tsukasa Mizuno,Yuya Tachibana,Ken-ichi Kasuya

Tue. Sep 7

E. POLYMERS AND ENVIRONMENT

Masahiro Fujiwara, presiding

9:10 2V01 Development of Thermo-responsive microgel particles for CO2 separation under low CO2 concentration
Ryutaro Honda,Yoshiko Miura,Yu Hoshino

9:35 2V02 Preparation of Polymeric Materials Adsorbing Phosphoric acid and Its Properties
Risei Wada,Hidenobu Shimizu

Yu Hoshino, presiding

10:00 2V03 Surface modification of cellulose through mechanochemical method
Lease Jacqueline,Yoshito Andou

10:25 2V04 Relationship between physical properties of polyacrylic acid and lung damage
Ryohei Ono,Chinatsu Nishida,Shota Fujii,Hiroto Izumi,Yasuo Morimoto,Kazuo Sakurai

10:50 2V05 Highly energy efficient solar desalination of seawater
Masahiro Fujiwara,Shinobu Yamauchi

S18. Polymer Materials and Recycling Technology Aimed at Coexistence with Diverse Environments

12:45 2VSO Introductory Remarks S18
Kazutoshi Ikenaga

Kazutoshi Ikenaga, presiding

12:55 2V08 Synthesis and biodegradability of sequence-controlled copolyesters composed of glycolic acid, 1,4-butanediol, and dicarboxylic acids
Yuushou Nakayama,Keitaro Fukumoto,Tanaka Ryo,Takeshi Shiono,Norioki Kawasaki,Naoko Yamano,Atsuyoshi Nakayama

13:20	2V09	Preparation of high impact resistant poly(lactic acid)/Eucommia elastomer blend using dynamic crosslinking Yuji KIba,Yu-I Hsu,Taka-Aki Asoh,Kinkoh Sho,Nobu-Aki SuZuki,Hiroshi Uyama
13:45	2V10	Preparation and properties evaluation of microbeads derived from biodegradable polymer Hongyi Gan,Satoshi Kimura,Tadahisa Iwata
		Yuushou Nakayama, presiding
14:10	2V11	Fabrication, the higher-order structural analysis, and the evaluation of environmental biodegradation of elastic P(3HB-co-3HV) fiber Katsuya Komiyama,Taku Omura,Taizo Kabe,Tadahisa Iwata
14:35	2V12	Improvement of mechanical strength in polyurethane by citric acid modified cellulose as filler Takeshi Hiraoka,Yu-I Hsu,Taka-Aki Asoh,Hiroshi Uyama
15:25	2V14	Development of Polymer Composite with CNF-hybrid filler Yoshito Andou,Safarul bin Mustapha,Tessei kawano
		Yoshito Andou, presiding
15:50	2V15	Consideration on new plastic recycling law and future plastic recycling naoki kubo
16:15	2V16	Shape and particle size of microplastics Hisayuki Nakatani,Takuya Muraoka,Yuina Ohshima,Suguru Motokucho
		Hisayuki Nakatani, presiding
16:40	2V17	Natural weathering of nylon, PET and polyethylene Olaf Karthaus,Takayuki Maruyama
17:05	2V18	Photo-oxidative Degradation and Microplastic Formation of Polyolefins Atsushi Takahara,Tomoko Kajiwara,Atsushiko Isobe,Yuka Ikemoto
17:30	2V19	Current status of the marine plastic pollution and relevant studies ATSUHIKO ISOBE

Wed. Sep 8

S18. Polymer Materials and Recycling Technology Aimed at Coexistence with Diverse Environments

		Takayuki Tsukegi, presiding
9:35	3V02	Pyrolysis and Chemical Separation Approaches for Plastic Recycling Shogo Kumagai,Toshiaki Yoshioka
10:00	3V03	Co-pyrolysis of PVC and woody biomass in glycerol Katsuki Kusakabe,Thamisha Steven,Anna Nagai,Yoshimitsu Uemura,Kazutoshi Ikenaga
10:25	3V04	Advanced recycling process by using the self-resilience ability of plastic. Shigeru Yao,Patchiya Panthong
		Shigeru Yao, presiding
10:50	3V05	Progress of precise thermal degradation and new development of functional polyolefins Daisuke Sasaki,Atsushi Takamura,Takashi Sawaguchi
11:15	3V06IL	Multiple screw type reactor for pyrolysis of waste plastic to oil and char

Prasert Reubroycharoen,Tharapong Vitisdant,Walairat Uttamaprokrom

Takashi Arai, presiding

13:20	3V09	Interfacial Adhesiveness Between Fiber and Resin in Composite Material and the Effect of Adding a Compatibilizer Hiroshi Yamashita,Hisai Ueda,Hiroki Matsumoto,Nobuaki Inui,Takayuki Tsukegi,Kiyoshi Uzawa
13:45	3V10	Practical Synthesis of Oxidatively Degradable Polymer Nobuhiro Kihara,Ai Kikuchihara
14:10	3V11	Effect of alcohol component for the chemical recycling via hydrolysis of polyurethane by using carbonic acid Suguru Motokucho,Ryota Oshima,Hisayuki Nakatani

Suguru Motokucho, presiding

14:35	3V12	Basic chemicals prepared by unused biomass material Takashi Arai,Kiyoharu Tsutsumi,Noritsugu Yamasaki
15:25	3V14	Synthesis of bio-based polycarbonates and development of their recycling systems Takumi Abe,Rikito Takashima,Daisuke Aoki,Hideyuki Otsuka
15:50	3V15	Alcoholysis of polycarbonate by microwave irradiation under the pressurized condition Kazutoshi Ikenaga

Room ESA

Mon. Sep 6

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Jun Matsui, presiding

10:00	1ESA03	Single-step fabrication of honeycomb-patterned antibacterial organic-inorganic hybrid films prepared by breath figure technique with in situ selective silver reduction Shahkar Falak,Bo Kyoung Shin,Do Sung Huh
10:25	1ESA04	All-atom molecular dynamics simulation study on dielectric properties of p-hydroxybenzoic acid polymer crystal Toshihiro Kaneko,Kazushi Fujimoto,Hiroaki Ishikawa,Minoru Shimooka,Susumu Okazaki

Shinji Ando, presiding

10:50	1ESA05	Ionic conductivity and mechanical properties of lithium salt-doped Polymerized ionic liquid electrolytes Kamonthira Wichai,Osamu Urakawa,Tadashi Inoue,Visit Vao-soongnern
11:15	1ESA06	N-type Organic Semiconductor-All-Inorganic Perovskite Quantum Dot Photosensitizer Bulk-Heterojunction Structure for Hybrid Phototransistors Shao-Huan Hong,Ming-Chou Chen,Cheng-Liang Liu
11:40	1ESA07	Proton conductive mechanism at the interlayer of polymer nanosheet film

Minami Inoue,Miaomiao Liu,Yuki Nagao,Makoto Gemmei,Tokuji Miyashita,Masaya Mitsuishi,Jun Matsui

Toshihiro Kaneko, presiding

12:55 1ESA08 Retardation Analysis of Random Depolarization Film for Liquid-Crystal and OLED Displays without Color Degradation
Shizuki Sasaki,Mariko Udono,Yasuhiro Koike

13:20 1ESA09 An Imide Compound and Polyimides Forming Multiple Intramolecular Hydrogen Bonds and Exhibiting Large Stokes-shifted Yellow Fluorescence
Naiqiang Liang,Mayuko Nara,Ryohei Ishige,Shinji Ando

13:45 1ESA10 Novel phthalimide compound having proton-transfer ability and exhibiting full colored fluorescence in the visible region under UV irradiation
Atsuko Tabuchi,Teruaki Hayakawa,Shigeki Kuwata,Ryohei Ishege,Shinji Ando

14:10 1ESA11 Observation and Analysis of High Pressure-Enhanced Luminescence of Phosphorescent Bromine-Containing Imide Compounds and Polyimides
Ryuichi Isoda,Koichiro Muto,Marina Doi,Ryohei Ishige,Shinji Ando

Tomoya Higashihara, presiding

14:35 1ESA12ILY Development of proton-conductive membrane with high performance and stability at high temperature
Junpei Miyake,Kenji Miyatake

15:25 1ESA14ILY Synthesis of Polymer Microparticles with Unique Shapes and Their Applications
Mun Ho Kim

Teruaki Hayakawa, presiding

15:50 1ESA15ILY Development of novel bio-based functional polymers derived from non-edible phenolic compound
Shinji Kanehashi

16:15 1ESA16ILY Reproducible and rapid synthesis of a conjugated polymer in flow
Ye-Jin Hwang

Hideaki Yokoyama, presiding

16:40 1ESA17ILY Precise analysis of noncrystalline thin films based on GI-WAXS and infrared pMAIRS
Ryohei Ishige

17:05 1ESA18ILY Thermo-rheology for Ceramic 3D printing and Micro-injection Molding Processes
Doojin Lee

Takashi Nakanishi, presiding

17:30 1ESA19ILY Nanosheet Electronics for Monitoring and Control of Biological Functions
Toshinori Fujie

17:55 1ESA20ILY Understanding the swelling hysteresis of hydrogels
Jungwook Kim

Tue. Sep 7

C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

Taichi Ikeda, presiding

9:10	2ESA01	Polyethylene glycol Nectars in Honeycomb Membranes Applicable as Composite Electrolytes for Rechargeable All-solid Lithium-ion batteries Manjit Singh Grewal,Kazuaki Kisu,Shin-ichi Orimo,Hiroshi Yabu
9:35	2ESA02	Utilization of Cafe Acid Based Lithium Borate Type Polymer as Anodic Binder in Li Ion Secondary Batteries Anusha Pradhan,Badam Rajashekar,Noriyoshi Matsumi
10:00	2ESA03	BIAN Based Covalent Organic Framework and Its Derivatives for Lithium-ion Battery Applications Bharat Srimitra Mantripragada,Badam Rajashekar,Noriyoshi Matsumi

Noriyoshi Matsumi, presiding

10:25	2ESA04	Copolymer consisting of PEO and cationic GTP with tri-branched side chains Taichi Ikeda
10:50	2ESA05	Solvent Permeability of Interfacial Crosslinked PDMS Membranes and The Analysis by Flory-Huggins Theory Fatin Bazilah Fauzi,Mizuki Inoue,Edhuan Ismail,Izumi Ichinose
11:15	2ESA06	Metal-Organic Frameworks for Practical Separation of Cyclic and Linear Polymers Taku Sawayama,Nobuhiko Hosono,Takashi Uemura
11:40	2ESA07	Polymer Recognition Enabled by Coordination-Driven Insertion into Metal-Organic Frameworks Mizuki Asami,Biplab Manna,Nobuhiko Hosono,Takashi Uemura

Junya Uchida, presiding

12:55	2ESA08	3-Dimensional Alignment Control of Chiral-Nematic-Liquid-Crystal in Monodispersed Microparticles Tomoki Shigeyama,Kyohei Hisano,Osamu Tsutsumi
13:20	2ESA09	Synthesis of network polymers by boronic acid ester formation with fructose Yuri Kamon,Koya Mineta,Akihito Hashidzume
13:45	2ESA10	Polymer Gel fibers produced by photoreactive electrospinning Jin Gong,Hiroto Sakurai,Kohei Takahashi

Yuri Kamon, presiding

14:10	2ESA11	PEG-rich triblock copolymers with PLGA end-blocks for thermogelling and degradable nanocomposite hydrogels Tomoki Maeda,Satoshi Koizumi,Atsushi Hotta
14:35	2ESA12	Development of Dynamic Supramolecular Liquid-Crystalline Networks Formed by Hydrogen Bonding Interactions and Coordination Bonding Junya Uchida,Takashi Kato
15:25	2ESA14	Mechanoresponsive PDMS that Reversibly Changes Fluorescence in Sub-MPa Stress Hidetsugu Kitakado,Saito Shohei

Tomoki Maeda, presiding

15:50	2ESA15	Thermal, optical and liquid-physical properties investigation with substitution pattern effect of alky-distyrybenzene liquids Xiao Zheng,Kazuhiko Nagura,Takashi Nakanishi
16:15	2ESA16	Carbon nanotube coated with antibody-modified polymer for photothermal therapy Yukiko Nagai,Kenta Nakamura,Tsuyohiko Fujigaya

16:40 2ESA17 Preparation and evaluation of free-standing polydimethylsiloxane ultrathin sheet
Sho Mihara,Tsai-Yun Lee,Shinji Takeoka

Tsuyohiko Fujigaya, presiding

17:05 2ESA18 Chiral Induction of Buckminsterfullerene in a Metal-Organic Framework
Shao-Wei Lo,Yusuke Nada,Takashi Kitao,Takashi Uemura

17:30 2ESA19 Topological Entrapment of Polymer in Metal-Organic Frameworks: Synthesis and Properties
Nagi Mizutani,Nobuhiko Hosono,Takashi Uemura

17:55 2ESA20 Ultra-Long Polymer Intercalates MOF
Tomoya Iizuka,Hiroyuki Sano,Nobuhiko Hosono,Takashi Uemura

Room ESB

Mon. Sep 6

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

Takuya Yamamoto, presiding

12:55 1ESB08 Conformation and Rheological Scaling of Ionic Liquid-Based Polyelectrolytes in Ionic Liquid Solutions
Atsushi Matsumoto,Ryota Yoshizawa,Osamu Urakawa,Tadashi Inoue,Amy Shen

13:20 1ESB09 Ejection of a Polymer from a Cavity through a Small Pore to an Outer Semi-infinite Space
Pai-Yi Hsiao

13:45 1ESB10 Thermal properties of melt-spun polyamide 4 fibers
Jinhyeok Hong,Haruki Mokudai,Takashi Masaki,Hisao Matsuno,Keiji Tanaka

Osamu Urakawa, presiding

14:10 1ESB11 Computer simulation of the topological effect on crystallization of linear and cyclic polyethylene
Supanont Jamornsuriya,Visit Vao-soongnern

14:35 1ESB12 Characterization of 3D structures of multi-component rubber/silica composites by STEM-EDX tomography
Lingyun Lyu,Takeshi Hanada,Naohiro Yamahira,Jun Morita,Ryota Yamamoto,Ken Itomi,Takumi Adachi,Sho Kubouchi,Shin Horiuchi

Hisao Matsuno, presiding

15:25 1ESB14 SANS study of thermodynamics and demixing in PaMSAN/dPMMA blends
Yutaka Aoki,S. Julia Higgins,T. Joao Cabral

15:50 1ESB15 Cyclization of PEG and Pluronic for Dispersion Stabilization of Nanoparticles
Yubo Wang,Yamamoto Takuya

16:15 1ESB16 Cyclization of Polyethylene Glycol and Pluronic Surfactants and the Effect of Topology at the Air-Water Interface

Tomohisa Watanabe,Satoru Chimura,Yubo Wang,Daichi Ida,Takuya Yamamoto

Tue. Sep 7

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

Takanori Fukushima, presiding

9:35	2ESB02	Reexamination of reactivity of N-carboxy amino acid anhydrides 96. The necessity of experiments using non-pre-polymerized and highly-purified amino acid NCA Hitoshi Kanazawa,Aya Inada
10:00	2ESB03	Syntheses of Degradable Alternating Copolymers via Radical Copolymerization of a Bulky Electron-Deficient Methacrylate with Cyclic Ketene Acetal Haiwang Lai,Makoto Ouchi
10:25	2ESB04	Synthesis and free radical photopolymerization of visible light phenylamine-based oxime ester photoinitiators Yung-Chung Chen
10:50	2ESB05	Polymerization induced vitrification and Trommsdorff effect Yasuhito Suzuki,Eri Kato,Ryutaro Mishima,Koji Fukao,Akikazu Matsumoto

Katsuhiro Maeda, presiding

11:15	2ESB06	Preparation of ionic polymers using novel anionic polymerization Wataru HIGASHIGUCHI,Yoshinobu NAKAMURA,Syuji FUJII,Tomoyasu HIRAI
11:40	2ESB07	Introduction of a luminophore into generic polymers via mechanoradical coupling reactions Koji Kubota,Naoki Toyoshima,Daiyo Miura,Julong Jiang,Satoshi Maeda,Mingoo Jin,Hajime Ito
12:55	2ESB08	Seeded Supramolecular Polymerization of Helicoidal Supramolecular Polymer by Quinoline-Embedded Barbituric Acid Keigo Tashiro,Shumpei Koshikawa,Sougata Datta,Shiki Yagai

Tomoyasu Hirai, presiding

13:20	2ESB09	pH-responsive aggregation behavior of multibranched blockarm star polymers governed by ionic segment sequence Hiroomi Kitajima,Shohei Ida,Shin-ichi Yusa,Shokyoku Kanaoka
13:45	2ESB10	Carbonization of polyacrylonitrile chains in metal-organic frameworks Xiyuan ZHANG,Takashi KITAO,Takashi UEMURA
14:10	2ESB11	Mechanical and membrane-forming properties of tripodal-triptycene terminated polydimethylpolysiloxane Yugen Chen,Fumitaka Ishiwari,Tomoya Fukui,Takashi Kajitani,Takanori Fukushima
14:35	2ESB12	Self-assembling behavior and mechanical properties of triptycene-appended block copolymers Ayami Itagaki,Fumitaka Ishiwari,Tomoya Fukui,Takashi Kajitani,Haonan Liu,Xiaobin Liang,Ken Nakajima,Takanori Fukushima

Shiki Yagai, presiding

15:25	2ESB14	Chirality Detection of Chiral Compounds with Ultra-Low Optical Purity Based on Chiral Aggregate Formation of Poly(biphenylylacetylene) Derivatives Mayu FUKUDA,Daisuke HIROSE,Tsuyoshi TANIGUCHI,Tatsuya NISHIMURA,Eiji YASHIMA,Katsuhiro MAEDA
15:50	2ESB15	Synthesis and properties of N,N'-diacylated diazacyclooctane-containing flexible ladder polymers exhibiting conformational change Keiki Inoue,Fumitaka Ishiwari,Takanori Fukushima

Wed. Sep 8

D. BIOPOLYMERS AND BIORELATED POLYMERS "English Session"

Yuki Mochida, presiding

10:00	3ESB03	A novel nano-delivery system for short chain fatty acids to overcome various diseases Babita Shashni,Yuya Tajika,Yukio Nagasaki
10:25	3ESB04	Establishment of tert-butyl substituted azobenzene tethered DNA programmed microtubule swarm driven by kinesin motor Satsuki Ishii,Mousumi Akter,Jakia Jannat Keya,Arif Md. Rashedul Kabir,Keiji Murayama,Hiroyuki Asanuma,Kazuki Sada,Akira Kakugo
10:50	3ESB05	Preparation of spherical nucleic acid nanoparticles containing self-immolative poly(carbamate) core for carrier-free DDS Yoshitsugu Akiyama,Shione Fukumoto,Hiroki Okajima,Akihiko Kikuchi
11:15	3ESB06	Development of short-peptide-antibiotic-based polyion complex nanostructure as a novel vehicles for antibiotic delivery Asmariah Ahmad,Takeshi Mori,Yoshiki Katayama,Masanori Toyofuku,Akihiro Kishimura
11:40	3ESB07	Role of Zwitterionic Polymers for Protein Denaturation Protection and Renaturation Alisha Debas,Robin Rajan,Kazuaki Matsumura

Shigehito Osawa, presiding

12:55	3ESB08	Design and Contraction Evaluation of Smart Shape-memory Polymers for Fetal Surgery FULATI AILIFEIRE,Koichiro Uto,Mitsuhiro Ebara
13:20	3ESB09	Fabrication of Patterned Artificial Basement Membranes for Cell Compartmentalization in Organized 3D Tissues Jinfeng Zeng,Michiya Matsusaki
13:45	3ESB10	3D printing of collagen in granular gel bath for high-strength tissue engineering scaffold Zhengtian Xie,Michiya Matsusaki
14:10	3ESB11	Fluidic Material Reveals the Role of Matrix Viscous Component in Cancer Cell Dormancy Mazaya Najmina,Mitsuhiro Ebara,Koichiro Uto
14:35	3ESB12	Vapor-Phased Synthesis of Polymers from Coatings to Porous Materials Hsien-yeh Chen