# Room A

Wed.	May	27
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### **INVITED LECTURES**

Т.	Mix	rata.	presi	ding
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10:15 1A06IL Development of enzyme-loaded PICsomes and its application Akihiro Kishimura

# Y. Miura, presiding

11:00 1A09IL Novel monomer and polymer structure design for various biodegradable polymer materials

Hiroharu Ajiro

### Y. Higaki, presiding

12:30 1A12IL Molecular Assembly of Polymers with Well-Controlled Structure Shin-ichi Yusa

# M. Takenaka, presiding

13:15 1A15IL Structure and Properties of Polyrotaxane Glass Kazuaki Kato

### T. Inoue, presiding

14:00 1A18IL Simulations of Entangled Polymer Dynamics Yuichi Masubuch

### **AWARD LECTURES**

### H. Jinnai, presiding

14:45 1A21AL Phase and micro-phase separation in vitrimers
<u>Ludwik Leibler</u>,Ralm Ricarte,François Tournilhac,Michel Cloître

# T. Satoh, presiding

15:30 1A24AL Self-assembly of Carbohydrate-based Block Copolymer Systems Redouane Borsali

### **INVITED LECTURES**

# T. Sakai, presiding

16:15 1A27IL Friction of Polymer Gel Takayuki Kurokawa

### Thu. May 28

# **INVITED LECTURES**

# S. Fujii, presiding

9:30 2A03IL In-situ Formation/Functionalization of Polymer Coatings: Material Design &

Processing Takeo Suga

### T. Kato, presiding

10:15 2A06IL An overview of optical film for the flexible display including foldable mobile phone

Yang Kook Kim

### K. Sakurai, presiding

11:00 2A09IL Metallically Conductive Alginate Fiber by Simply Modified Wet-Spinning Process Tae Ho Lee, Jun Young Lee

### **AWARD LECTURES**

### M. Yoshida, presiding

12:30 2A12AL Development of Multiple Controlled Radical Polymerization Masami Kamigaito

### H. Jinnai, presiding

13:15 2A15AL Design and Applications of Polymer Membranes and Gels Based on Molecular Interactions
Takashi Miyata

### **INVITED LECTURES**

# H. Otsuka, presiding

14:00 2A18IL Crystal Crosslinking as the 3D Polymerization of Monomers Arranged on 3D Lattice
Kazuki Sada

### A. Takahara, presiding

14:45 2A21IL Design of intelligent dendrimer-based nanoplatforms for gene delivery and cancer theranostics

Xiangyang Shi

### K. Tanaka, presiding

15:30 2A24IL Polymers for Impact Mitigation: New Measurements Provide Insights into an Old Problem
Christopher L. Soles

# Fri. May 29

### **INVITED LECTURES**

### T. Yasuda, presiding

9:30 3A03IL Progress in semiconducting polymers: controlled, green, and stretchable polymer syntheses

Tomoya Higashihara

### **AWARD LECTURES**

### J. Ohshita, presiding

10:15 3A06AL Functions of Rigid Dendrimers and Their Applications Kimihisa Yamamoto

### H. Ihara, presiding

11:00 3A09AL Creation of functional softmaterials based on self-oscillating polymer gels Ryo Yoshida

### A. Kakugo, presiding

12:30 3A12AL Precision Synthesis of Molecular Assemblies through Living Supramolecular Polymerization
Kazunori Sugiyasu

### T. Maruyama, presiding

13:15 3A15AL Experimental elucidation of structure-property relationship of polymer gels Takamasa Sakai

### **INVITED LECTURES**

### H. Matsuno, presiding

14:00 3A18IL Precision Synthesis of Polysaccharides by Enzymatic Polymerization <u>Jun-ichi Kadokawa</u>

### Room B

# Wed. May 27

### POLYMERS TODAY AND BEYOND

# T. Shiraki, presiding

10:15	1B06IL	Modification of polymers by supramolecular networks and their practical
		application progress
		Mikihiko Tsubouchi

11:00 1B09IL "Hyperfluorescence<sup>TM</sup>" Materializes the Future of OLEDs <u>Junji Adachi</u>

# J. Fujimoto, presiding

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

- 13:15 1B15IL Commercialization of wood-plastic composite material (WPRC), the recycling-type wooden building material Kouji Ishimoto
- 14:00 1B18IL Chemical Recycling, a key solution to realize our vision "Circulate everything" <u>Takao Masaki</u>

# S. Yao, presiding

- 14:45 1B21IL New trends in packaging for a circular-oriented society Toshio Arita
- 15:30 1B24IL Development of plastic recycling technology and its social implementation to realize a circular economy

  <u>Youichiroh Ide, Kenji Ebara, Terumi Sakabe</u>

16:15	1B27IL	Kao's Environmental Approach to Plastic Containers and Packaging
		Shinichi Inaba

# Thu. May 28

### POLYMERS TODAY AND BEYOND

H. F	`uiimura.	presiding
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9:30 2B03IL Practical Application of Materials Informatics to Polymer Development in NIPPON SHOKUBAI Keiya Migita, Yuki Matsuo

# N. Watanabe, presiding

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

### S. Ogawa, presiding

11:00 2B09IL Descriptor for the higher order structures of polymeric materials Hiroshi Morita

# H. Murooka, presiding

12:30 2B12IL Research and Development of Asahi Kasei for Sustainability <u>Hiroshi Shirai</u>

# M. Yokota, presiding

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

# M. Nishimoto, presiding

14:00 2B18IL Open Innovation at TOYOBO Yasuo Ohta

### **INVITED LECTURES**

### T. Kato, presiding

16:15 2B27IL Future society engendered by LIB Akira Yoshino

### Fri. May 29

### POLYMERS TODAY AND BEYOND

# H. Murakami, presiding

9:30	3B03IL	A once-in-a-century revolution in automotive technologies <u>Yuichi Azuma</u>
10:15	3B06IL	Current Status and Future Trends of Carbon Fiber Composite Materials Technology <u>Naoki Sugiura</u>
11:00	3B09IL	Adhesive for Dissimilar Materials Bonding Masato Akimoto

### H.Yano, presiding

12:30 3B12IL Photonics Polymer towards 8K, 5G Era

		<u>Yasuhiro Koike</u>
13:15	3B15IL	Development of Novel Aromatic Vinyl-based Curable Low Loss Materials for High Speed PWB <u>Masanao Kawabe</u>
14:00	3B18IL	Low Dielectric Loss Polyimides for 5G Telecommunication and Millimeter-wave Radar Applications <u>Masao Tomikawa</u>

### Room C

### Wed. May 27

### A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

### K. Yamabuki, presiding 10:00 1C05 Photo-induced dissociation of alpha-cyclodextrin-threaded polyrotaxane with reversibly cleavable dithioester stoppers Yoshinori Arisaka, Nobuhiko Yui 10:15 1C06 Preparation and characterization of polyrotaxane with sulfur-styrene copolymer and methylated Acyclodextrins Yuichiro Kobayashi, Akira Harada, Hiroyasu Yamaguchi Investigation of Latex Film from Acrylate Microspheres Crosslinked with 10:30 1C07 Rotaxane Yuma Sasaki, Seina Hiroshige, Jun Sawada, Daisuke Aoki, Toshikazu Takata, Daisuke Suzuki 10:45 1C08 Property of rotaxane-crosslinked polymers synthesized using a cyclodextrinbased [3]rotaxane crosslinker Yosuke Akae, Toshikazu Takata T. Hirao, presiding 11:00 1C09 Synthesis of PMMA-based polyrotaxane via RAFT polymerization and gel preparation YuCheng Wang, Rina Maeda, Gergely Kali, Gerhard Wenz, Koichi Mayumi, Hideaki Yokoyama, Kohzo Ito 11:15 1C10 Construction of Cyclotetrasiloxane Network Using Rotaxane-style Crosslink and Its Gelation Behavior Atsuya YAMAMOTO, Kazuhiro YAMABUKI, Kenjiro ONIMURA 11:30 1C11 Molecular weight effect on the preparation of pseudo-polyrotaxane using PLA-PEG copolymer and stereocomplex formation Jaeyeong Choi, Hiroharu AJIRO T. Hirai, presiding 12:30 1C12 Synthesis and characterization of polyphenylene-based block copolymers having super strong acid groups (I) - Establishment of synthetic route and characterization -Hirotaka Shinohara, Masahiro Rikukawa, Yuko Takeoka, Masahiro Fujita 12:45 1C13 Creation of Chemoselectively and Dually Functionalizable Diblock Copolymer Kodai Nagashima, Yuta Nabae, Teruaki Hayakawa 13:00 1C14 Synthesis of block copolymers having diphenylalanine moiety by RAFT polymerization and formation of ordered structures

Ryo YONENUMA, Hideharu MORI

13:15	1C15	Synthesis of Block Copolymers Containing One Molecule of Semifluoroalkanes at the Junction Point of Blocks and its Effect on Microphase Separation <u>Yoshihiro Agata</u> , Yuta Nabae, Teruaki Hayakawa
		M. Fujita, presiding
13:30	1C16	Synthesis of Oligosaccharide-Containing Monodisperse Block Co-Oligomers for Ultrafine Microphase-Separated Structures <u>Chaehun Lee</u> ,Ryoya Komaki,Takuya Isono,Takuya Yamamoto,Kenji Tajima,Toshifumi Satoh
13:45	1C17	Synthesis and Microphase Separation Behavior of Poly(vinylferrocene) Bearing Oligosaccharide Moieties at Chain End <u>Satoshi Katsuhara</u> ,Takuya Isono,Takuya Yamamoto,Kenji Tajima,Toshifumi Satoh
14:00	1C18	Synthesis of block copolymer assembly recognizing thermal history via polymerization-induced self-assembly <a href="Yuto Tsutsui">Yuto Tsutsui</a> , Shinji Sugihra, Yasushi Maeda, Hideyuki Uematsu
14:15	1C19	Amphiphilic Random Copolymer Micelles: Design Criteria for Self-Sorting or Co-Self-Assembly <u>Takaya Terashima</u> ,Kei Tanaka
		K. Naka, presiding
14:30	1C20	Amphiphilic Polymer Micelles: Dynamic Self-Assembly Controlled by Primary Structure <u>Masayuki Hibino</u> ,Kei Tanaka,Makoto Ouchi,Takaya Terashima
14:45	1C21	Self-Sorting Micelles of Amphiphilic Homopolymers: Morphology Transition Driven by Dense Crystalline Pendants <u>Takaya Terashima</u> , Yoshihiko Kimura
15:00	1C22	Preparation of polymer particles using a living anionic polymerization-induced self-assembly <u>Toshiki Terao</u> ,Teruaki Hayakawa,Syuji Fujii,Yoshinobu Nakamura,Tomoyasu Hirai
15:15	1C23	Controlling of stereoregularity in polyhedral oligomeric silsesquioxane(POSS)-functionalized polymethacrylate using a living anionic polymerization and evaluation of its molecular aggregation state. <u>Kei Manabe</u> ,Syujii Fujii,Yoshinobu Nakamura,Teruaki Hayakawa,Tomoyasu Hirai
		Y. Arisaka, presiding
15:30	1C24	Synthesis of polymers and cyclic compounds utilizing a side-opening cage silsesquioxane Yuri Sato, <u>Hiroaki Imoto</u> , Kensuke Naka
15:45	1C25	Precise synthesis of polyhedral oligomeric silsesquioxane(POSS)-containing polymer with well-controlled stereoregularity and evaluation of its molecular aggregation state <a href="mailto:satosi kuretani">satosi kuretani</a> , Tsai Sung-yu, Wang Chien-Lung, Teruaki Hayakawa, Syuji Hujii, Yoshinobu Nakamura, Tomoyasu Hirai
16:00	1C26	Separation and functionalization of nanographenes produced by oxidative cleavage <u>Ikuya Matsumoto</u> , Kairi Yamato, Ryo Sekiya, Takeharu Haino
16:15	1C27	Controlled Synthesis of mix-edge Graphene Nanoribbons in nanochannels of Metal Organic Frameworks <u>Kazuki Nakata</u> ,Takashi Kitao,Takashi Uemura

# Thu. May 28

# H. Guo, presiding

9:30	2C03	Synthesis of Boron-fused Azomethine Polymers with Solid-state Emission and Evaluation of Alkyl Chain Length Dependence <a href="Matsumi Yamada">Natsumi Yamada</a> , Shunsuke Ohtani, Masayuki Gon, Kazuo Tanaka
9:45	2C04	Molecular Sensing Using Thiourea-modified Polythiophenes Tomoaki Tsuchiya, <u>Gaku Fukuhara</u>
10:00	2C05	Synthesis and Properties of Anthrabisthiadiazole-Based Wide-Bandgap Semiconducting Polymers <u>Yukiya Minagawa</u> , Hiroki Mori, Yasushi Nishihara
	(	G. Fukuhara, presiding
10:15	2C06	Synthesis and evaluation of electron transfer of structure-controlled A,B-block type amphiphilic macromolecular wire <u>Haoxuan Guo</u> ,Hiroyuki Aota
10:30	2C07	Side-chain liquid crystalline polymer having BTBT mesogens Naohiro Yamaguchi,Sadayuki Asaoka
10:45	2C08	Evaluation of solid-state synthesis using ONO-type ligand and development of functional materials <u>Taichi Kato</u> , Masayuki Gon, Kazuo Tanaka
	:	S. Ito, presiding
11:00	2C09	Design and synthesis of polymers containing selective cleavable points: Synthesis of block, graft, and star-shaped polymers using acetal-containing precursor polymers and the acid hydrolysis behavior Sae Taniguchi, Arihiro Kanazawa, Sadahito Aoshima
11:15	2C10	Synthesis of diazacyclooctane-containing ladder polymers with various functional groups on the nitrogen atoms <a href="Keiki Inoue">Keiki Inoue</a> , Fumitaka Ishiwari, Takanori Fukushima
11:30	2C11	Synthesis and properties of polyurethanes having oxazolidone structure <u>Yoshiaki Yoshida</u> ,Takeshi Endo
	]	H. Murakami, presiding
12:30	2C12ILY	Development of Near-Infrared Emissive Conjugated Polymers Based on Hypervalent Tin Complexes <u>Masayuki Gon</u> ,Kazuo Tanaka,Yoshiki Chujo
13:00	2C14	Functionalization for Conjugated Polymers by Hybridization with POSS <u>Satoru Saotome</u> , Masayuki Gon, Kazuo Tanaka
13:15	2C15	Synthesis and Evaluation of Regioregular Boron-fused Azomethine Polymers Shunsuke Ohtani, Masayuki Gon, Kazuo Tanaka
	•	T. Kitao, presiding
13:30	2C16	Conjugated Polymeric Ligands Synthesized through Polycondensation of Malondialdehyde Derivatives and Aromatic Diamines Based on Boron Diiminate Complexes
10.45	2017	Yuki SAKAI, Shunichiro ITO, Kazuo TANAKA
13:45	2C17	Highly Efficient Anodic Chlorination of π-conjugated Polymer Films with the Use of AlCl3 as both a Lewis Acid and a Chlorine Source <u>Tomoyuki Kurioka</u> ,Naoki Shida,Hiroki Nishiyama,Ikuyoshi Tomita,Shinsuke Inagi
14:00	2C18	Quantitative arylthiolation of a perfluoroarene-containing π-conjugated polymer based on nucleophilic aromatic substitution reaction Naoki Shida, Kazuyuki Ninomiya, Takanobu Nishikawa, Hiroki Nishiyama, Ikuyoshi Tomita, Shinsuke Inagi

14:15	2C19	Chiral Sensing Based on Aggregate Formation of Poly(biphenylylacetylene) Derivatives Mayu FUKUDA, Daisuke HIROSE, Tsuyoshi TANIGUCHI, Tatsuya
		NISHIMURA, Eiji YASHIMA, Kastuhiro MAEDA
		T. Ikai, presiding
14:30	2C20	Synthesis and Optical Properties of Boron Complexes Based on Pyrazine toward Highly Efficient Near-Infrared Fluorescence <u>Hiromasa TAKAHASHI</u> , Hiroyuki WATANABE, Kazuo TANAKA
14:45	2C21	Synthesis and Photoluminescence Properties of Near-infrared Light-emitting Polymers Using Tin-fused Azobenzene Complexes <u>Kazuya Tanimura</u> , Misao Yaegashi, Masayuki Gon, Kazuo Tanaka
15:00	2C22	Synthesis and Optical Property of Conjugated Compound Based on Formazan Yoshinori ITO,Shunichiro ITO,Kazuo TANAKA
15:15	2C23	Synthesis and Optical Properties of Fused Bisboron Complexes Having Expanded Conjugated Systems through Azo Groups Masashi Nakamura, Masayuki Gon, Kazuo Tanaka
		T. Taniguchi, presiding
15:30	2C24	Chiral Separation Using Poly(biphenylylacetylene) derivatives with helicity memory capability Nozomu Suzuki, Tomoyuki Kurake, Tomoyuki Ikai, Katsuhiro Maeda, Eiji Yashima
15:45	2C25	Helicity Control of Poly(biphenylylacetylene) Derivatives Bearing Optically Active
10.40	2020	Polyethylene Glycol Pendants
		<u>Tomoyuki Ikai,</u> Kosuke Mizumoto,Riho Ikeda,Ryoma Ishidate,Katsuhiro Maeda,Eiji Yashima
16:00	2C26	Transcription of Chirality from Metal-Organic Framework to Conjugated
		Materials
		<u>Takashi Kitao</u> ,Yusuke Nada,Yujiro Nagasaka,Takashi Uemura
Fri. M	ay 29	<u>Takashi Kitao</u> ,Yusuke Nada,Yujiro Nagasaka,Takashi Uemura
Fri. M	ay 29	Takashi Kitao, Yusuke Nada, Yujiro Nagasaka, Takashi Uemura  A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS
Fri. M	ay 29	
<b>Fri. M</b>	<b>ay 29</b> 3C03	A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS
		A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS  M. Jikei, presiding  Synthesis of a spiro-biscarbonate and its ring-opening polyaddition with diamines  Naoki Ousaka, Takeshi Endo  Synthesis of Polyurea Type Microcapsules Containing Leuco Dyes by Interfacial
9:30	3C03	A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS  M. Jikei, presiding  Synthesis of a spiro-biscarbonate and its ring-opening polyaddition with diamines  Naoki Ousaka, Takeshi Endo
9:30	3C03	A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS  M. Jikei, presiding  Synthesis of a spiro-biscarbonate and its ring-opening polyaddition with diamines  Naoki Ousaka, Takeshi Endo  Synthesis of Polyurea Type Microcapsules Containing Leuco Dyes by Interfacial Polymerization  Takemi Yokoyama, Kazuhiro Yamabuki, Kenjiro Onimura  Chemoenzymatic synthesis, thermal and biological properties of nylon-
9:30 9:45	3C03 3C04	A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS  M. Jikei, presiding  Synthesis of a spiro-biscarbonate and its ring-opening polyaddition with diamines  Naoki Ousaka, Takeshi Endo  Synthesis of Polyurea Type Microcapsules Containing Leuco Dyes by Interfacial Polymerization  Takemi Yokoyama, Kazuhiro Yamabuki, Kenjiro Onimura
9:30 9:45	3C03 3C04	A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS  M. Jikei, presiding  Synthesis of a spiro-biscarbonate and its ring-opening polyaddition with diamines  Naoki Ousaka, Takeshi Endo  Synthesis of Polyurea Type Microcapsules Containing Leuco Dyes by Interfacial Polymerization  Takemi Yokoyama, Kazuhiro Yamabuki, Kenjiro Onimura  Chemoenzymatic synthesis, thermal and biological properties of nyloncontaining polypeptides  Kayo Terada, Prashant G Gudeangadi, Ayaka Tateishi, Kousuke Tsuchiya, Keiji
9:30 9:45	3C03 3C04	A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS  M. Jikei, presiding  Synthesis of a spiro-biscarbonate and its ring-opening polyaddition with diamines  Naoki Ousaka, Takeshi Endo  Synthesis of Polyurea Type Microcapsules Containing Leuco Dyes by Interfacial Polymerization  Takemi Yokoyama, Kazuhiro Yamabuki, Kenjiro Onimura  Chemoenzymatic synthesis, thermal and biological properties of nyloncontaining polypeptides  Kayo Terada, Prashant G Gudeangadi, Ayaka Tateishi, Kousuke Tsuchiya, Keiji Numata
9:30 9:45 10:00	3C03 3C04 3C05	A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS  M. Jikei, presiding  Synthesis of a spiro-biscarbonate and its ring-opening polyaddition with diamines  Naoki Ousaka, Takeshi Endo  Synthesis of Polyurea Type Microcapsules Containing Leuco Dyes by Interfacial Polymerization  Takemi Yokoyama, Kazuhiro Yamabuki, Kenjiro Onimura  Chemoenzymatic synthesis, thermal and biological properties of nyloncontaining polypeptides  Kayo Terada, Prashant G Gudeangadi, Ayaka Tateishi, Kousuke Tsuchiya, Keiji Numata  N. Ousaka, presiding  Synthesis and characterization of polypeptides containing zwitterion structures similar to cellulose-dissolving ionic liquids  Kousuke Tsuchiya, Keiji Numata  Preparation of polyimines by oxidative polymerization using ionic liquid and oxygen
9:30 9:45 10:00	3C03 3C04 3C05	A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS  M. Jikei, presiding  Synthesis of a spiro-biscarbonate and its ring-opening polyaddition with diamines  Naoki Ousaka, Takeshi Endo  Synthesis of Polyurea Type Microcapsules Containing Leuco Dyes by Interfacial Polymerization  Takemi Yokoyama, Kazuhiro Yamabuki, Kenjiro Onimura  Chemoenzymatic synthesis, thermal and biological properties of nylon-containing polypeptides  Kayo Terada, Prashant G Gudeangadi, Ayaka Tateishi, Kousuke Tsuchiya, Keiji Numata  N. Ousaka, presiding  Synthesis and characterization of polypeptides containing zwitterion structures similar to cellulose-dissolving ionic liquids  Kousuke Tsuchiya, Keiji Numata  Preparation of polyimines by oxidative polymerization using ionic liquid and

1,6-hexamethylenediamine, and sulfur Masaru Yoneyama,Takeshi Yamanobe,<u>Haruka Shimoda</u>

# M. Yoneyama, presiding

		m. Toneyama, presiding
11:00	3C09	Importance of irreversible reaction for end functionalization by unstoichiometric polycondensation <u>Takayoshi KATOH</u> ,Tomoya SUZUKI,Yoshihiro OHTA,Tsutomu YOKOZAWA
11:15	3C10	Orientation Control of Block Copolymer Microphase-separated Nanostructures on Polyimide Films <u>Hayato Maeda</u> , Yuta Nabae, Teruaki Hayakawa
11:30	3C11	Synthesis of Aromatic Polyketones by Ideal Nonstoichiometric Polycondensation Using Superacid as an Activating Agent <u>Kazuya Matsumoto</u> ,Shuko Hasegawa,Mitsutoshi Jikei
		T. Hayakawa, presiding
12:30	3C12	Synthesis and Polymerization of divinyl monomers with fluorene skeletons Yasuhiro Kohsaka, Akira Hiramatsu, Masatoshi Ohyama, Rie Yasuda, Shinsuke Miyauchi
12:45	3C13	Reexamination of Reactivity of N-Carboxy Amino Acid Anhydrides 93. Why is not increased the molecular weight of polymer obtained in the primary amine initiated polymerization of amino acid NCA? <u>Hitoshi Kanazawa</u> , Aya Inada
13:00	3C14	Development of novel oil-soluble polyurethane gel and its application to cosmetics <u>Takashi Takeshita</u> ,Ryo Hagino,Yuji Masubuchi,Yusuke Taniguchi,Hisanori Ishita
		Y. Kohsaka, presiding
13:15	3C15	Synthesis and Properties of Polyimides from Perfluoroalkylene-Containing Diamines <u>Yoshiki Endo</u> ,Tadashi Tsukamoto,Yuji Shibasaki,Yoshiyuki Oishi
13:30	3C16	Synthesis and properties of bio-based polymers with L-ascorbic acid skeletons in the main and side chain  Shintaro Takahashi, Hiroto Kudo
13:45	3C17	Development of new resist materials for EUV resist materials containing extreme ultraviolet super absorbing elements(iodine and tellurium) <u>Yutaro Iwashige</u> , Hiroto Kudo
14:00	3C18	Synthesis of hyperbranched polyphenylene derivatives and chirality induction to the polymers using chiral additives and circularly polarized light <a href="Yuting Wang">Yuting Wang</a> , Zhiyi Song, Tamaki Nakano
14:15	3C19	Synthesis of polymers composed of 1,10-phenantroline-5,6-diyl and phnanthrene-5,6-diyl units and their application for catalysis Jiyue Luo,Masayoshi Bando,Zhiyi Song, <u>Tamaki Nakano</u>

# Room D

# Wed. May 27

# A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

# S. Ida, presiding

10:00 1D05 A method for removal of organotellurium group from the polymers prepared by

		ab-initio emulsion organotellurium-mediated radical polymerization <u>Yuhan JIANG</u> ,Masatoshi TOSAKA,Makoto TSUJISAKA,Yoshiki SOHRIN,Shigeru YAMAGO
10:15	1D06	Dual control over molecular weight and stereoregularity in the polymerization of acrylamides by TERP in the presence of Lewis acid Yuji Imamura, Shigeru Yamago
10:30	1D07	Effect of viscosity and polarity of the reaction media on the termination mechanism of radical polymerization of acrylonitrile <a href="Xiaopei LI">Xiaopei LI</a> , Yasuyuki NAKAMURA, Shigeru YAMAGO
10:45	1D08	Controlled Radical Polymerization of Various Activated (Meth)acrylamide Derivatives and Synthesis of Poly((meth)allyl Alcohol) <u>Yuto SUGIURA</u> ,Daichi WATANABE,Takenori NISHIDA,Mineto  UCHIYAMA,Kazuaki ISHIHARA,Masami KAMIGAITO
		S. Yamago, presiding
11:00	1D09	Controlled Radical Copolymerization of Terpenoid-Based exo-Methylene Conjugated Dienes and Various Vinyl Monomers <u>Takenori NISHIDA</u> ,Kotaro SATOH,Masami KAMIGAITO
11:15	1D10	Thermoresponsive Mechanical Properties of Designed Hydrogels with Crosslinked Domain Structure Prepared by RAFT polymerization Miki Morimura, Shohei Ida, Masatoshi Oyama, Hiroki Takeshita, Shokyoku Kanaoka
11:30	1D11	Preparation of glycopolymer library using aqueous PET-RAFT polymerization <u>Takeshi Uemura</u> , Yoshiko Miura, Yu Hoshino, Yuri Kimoto
		M. Ouchi, presiding
12:30	1D12	RAFT Polymerization of 2-Hydroxyethyl Methacrylate Protected with tert- Butoxycarbonyl Group and Functionalization of the Resulting Polymers by Post- Reactions Jing Chu, Yasuhito Suzuki, Akikazu Matsumoto
12:45	1D13	Polymerization induced phase separation cause Trommsdorff effect <u>Yasuhito Suzuki</u> , Yuya Shinagawa, Eri Kato, Koji Fukao, Akikazu Matsumoto
		A. Matsumoto, presiding
13:00	1D14	Syntheses of Alternating Copolymers and Sequence Functions: Transformable Comonomer Design with Bulkiness and Electron Density <u>Yosuke Furuya</u> , Tsuyoshi Nishikawa, Makoto Ouchi
13:15	1D15	Synthesis of various sequence-controlled copolymers via cyclopolymerization of transformable divinyl monomers <u>Yuki Kametani</u> ,Makoto Ouchi
13:30	1D16	Synthesis and properties of block copolymer surfactants having hyperbranched structure <u>Yuzhong HE</u> , Yangtian LU, Shigeru YAMAGO
13:45	1D17	The design of vinyl telluride for the synthesis of structurally controlled hyperbranched polymers <u>Yangtian LU</u> ,Shigeru YAMAGO
		H. Mori, presiding
14:00	1D18	Simulation of Formation Process of Dendrimer-like Hyper-branched Polymer by Radical Polymerization <u>Masatoshi Tosaka</u> , Hinako Takeuchi, Yangtian Lu, Shigeru Yamago
14:15	1D19	Controls of Monomer Sequence and Molecular Weight in Radical Copolymerization of $\alpha$ -Trifluoromethyl Acrylate and Vinyl Ether <u>Dasom YOO</u> ,Masato MIYAJIMA,Mineto UCHIYAMA,Kotaro SATOH,Masami KAMIGAITO,Bruno Ameduri

14:30	1D20	Synthesis of Sequence-Regulated Polymers with Catechol and Amino Groups by Single Monomer Addition and Thiol-Ene Polymerization <u>Yusuke YAMADA</u> , Masato MIYAJIMA, Mineto UCHIYAMA, Masami KAMIGAITO
14:45	1D21	Radical Copolymerization using an Alkenyl Boronate as a Monomer: Synthesis of Novel Copolymers through Side Chain Replacement and their Properties <u>Hiroshi Makino</u> , Tsuyoshi Nishikawa, Makoto Ouchi
	:	B. Ochiai, presiding
15:00	1D22	Radical Polymerization of Vinyl Boronate Derivatives: The Relationship between Molecular Structure and their Chain-Growth Behavior <u>Tsuyoshi Nishikawa</u> , Makoto Ouchi
15:15	1D23	Synthesis and characterization of novel polymers containing selenium unit in the side chain by radical polymerization <a href="Yoshihisa TOKUSHITA">Yoshihisa TOKUSHITA</a> , Shogo FURUYA, Hideharu MORI
15:30	1D24	Radical polymerization of novel deep eutectic acrylamide derivatives <u>Ayaka Torii</u> ,Keiko Ajino,Hideharu Mori
	:	K. Arimitsu, presiding
15:45	1D25	Development of acrylates by utilizing incompletely condensed cage silsesquioxane precursors AMATO IGARASHI
16:00	1D26	Effects of synthetic routes of acrylic polymers having five-membered cyclic carbonate group on their properties <a href="Mainton: Kenta Kosugi">Kenta Kosugi</a> , Yoshimasa Matsumura, Bungo Ochiai
16:15	1D27	Recyclable heterogeneous catalysts for reversible complexation mediated polymerization Shunsuke Chatani,Shuyao Hsu, <u>Hiroshi Niino</u>

### Thu. May 28

### A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

### M. Kamigaito, presiding 9:30 2D03 Control of Microgel Structures by Free Radical Precipitation Polymerization Yuichiro Nishizawa, Ikuma Saito, Takuma Kureha, Mitsuhiro Sibayama, Takayuki Uchihashi, Daisuke Suzuki 9:45 2D04 UV curing mechanism of a photoinduced redox-initiated polymerization system in the shadow part at room temperature Kazuki Uetake, Masahiro Furutani, Koji Arimitsu 10:00 2D05 Direct ESR Observation of Radical Polymerizations of (Meth)acrylamides and Related Nitrogen Containing Monomers Mayu Ichimura, Atsushi Kajiwara N. Haraguchi, presiding 10:15 2D06 Synthesis of Anion Exchange Resin Possessing Highly Robust Phosphonium Salts Moieties Keisuke Ikeda, Ryoyu Hifumi, Hiroki Nishiyama, Shinsuke Inagi, Ikuyoshi Tomita 10:30 2D07 Synthesis of group 14 heterole-containing π-conjugated polymers via Te-Li exchange of tellurophene-containing polymer Feng Zheng, Naoki Shida, Hiroki Nishiyama, Shinsuke Inagi, Ikuyoshi Tomita 10:45 2D08 Synthesis of tellurophene-containing polymers by the transition metal-catalyzed polycondensation and their transformations to heteroatom-containing paiconjugated polymers Feng Zheng, Naoki Shida, Hiroki Nishiyama, Shinsuke Inagi, Ikuyoshi Tomita

# K. Oyaizu, presiding

11:00	2D09	Cyclic Polymer Synthesis Using Exchange Reactions of Bis(hindered amino)disulfide Linkages <u>Rikito Takashima</u> , Daisuke Aoki, Hideyuki Otsuka
11:15	2D10	Reversible cross-linking reactions of polymers with pendant hindered disulfide bonds under bulk condition <a href="Shimon Kataoka">Shimon Kataoka</a> , Ayuko Tsuruoka, Daisuke Aoki, Hideyuki Otsuka
11:30	2D11	Control of Primary Structure of Polymers by Using Dynamic Covalent Macrocyclic Monomers <u>Hirogi Yokochi</u> ,Rikito Takashima,Daisuke Aoki,Hideyuki Otsuka
		D. Aoki, presiding
12:30	2D12	Syntheisis of polymer-supported diphenylprolinols and their application to asymmetric oxidation <a href="Yudai Shinya">Yudai Shinya</a> , Naoki Haraguchi
12:45	2D13	Synthesis of Reactive Polyurea Having Vinylcyclopropane Moiety in the Main Chain and Its Radical Cross-linking with Thiols <u>Shusuke Okamoto</u> ,Takeshi Endo
13:00	2D14	Synthesis of sulfonated hollow polymer microsphere by precipitation polymerization Yuri Hashimoto, Miku Nakagawa, Naoki Haraguchi
		E. Sato, presiding
13:15	2D15	Development of Mechanochromic Polymers with Asymmetric Mechanochromophores that Can Generate Different Radical Species <u>Kosaku Yanada</u> ,Sota Kato,Daisuke Aoki,Hideyuki Otsuka
13:30	2D16	Enhancing Mechanochromic Property by Surface Modification of Mechanochromic Dendrimers <u>Takuma Watabe</u> , Daisuke Aoki, Hideyuki Otsuka
13:45	2D17	Effect of Base on Electrochemical Epoxidation of Natural Rubber <u>Yoshimasa Yamamoto</u> , Ayaka Tsutsui, Seiichi Kawahara
		S. Inagi, presiding
14:00	2D18	In Situ XAFS Study on the Vulcanization of Isoprene Rubber <u>Yuko Ikeda,</u> Yuta Sakaki,Kosuke Miyaji,Takumi Ohashi,Hisayoshi Kobaysahi
14:15	2D19	Synthesis of reversibly cross-linkable acrylic copolymers and their application to pressure-sensitive type dismantlable adhesives with rebondability <a href="Eriko Sato">Eriko Sato</a> , Naoki Ando, Ken Amano
14:30	2D20	Behavior of curing of bifunctional glycidate and anhydrides, and adhesion and decomposition characters of cured products <u>Miharu Yashima</u> , Yoshimasa Matsumura, Bungo Ochiai
		S. Kawahara, presiding
14:45	2D21	Combustion behavior analysis of polymer materials with different molecular weights <u>Yoshifumi Hosokawa</u> ,Tomonaga Ueno
15:00	2D22	Visualization of Polymer Crystallization with a Fluorescent Mechanochromophore <u>Sota Kato</u> ,Daisuke Aoki,Kazusato Oikawa,Kousuke Tsuchiya,Naohiko Shimada,Atsushi Maruyama,Keiji Numata,Hideyuki Otsuka
15:15	2D23IL	Y Topology Transformation of Polymer Chains and Its Application to Functional Materials <u>Daisuke Aoki</u>

# A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

		K. Kokado, presiding
9:30	3D03	Improvement of Solid-state Excimer Emission Based on Dimer Formation of Carborane Derivative <u>Junki Ochi</u> ,Kazuo Tanaka
9:45	3D04	Novel Coordination Polymers Based on Carborane Anion <u>Tatsuya Yoshii,</u> Mutsumi Kimura,Miyamoto Kazunori,Kanazawa Junichiro,Uchiyama Masanobu,kitazawa Yu
10:00	3D05	Synthesis of Chiral Coordination Polymers Composed of Paddle-Wheel-Type Dirhodium Complexes and Chiral Amplification Shogo Okuda, Riku Ishida, Takuya Iwata, Akio Urushima, Naoki Ousaka, Tomoyuki Ikai, Eiji Yashima
10:15	3D06	Syntheses of Porous Molecular Conductors Triggerd by Reduction of Naphthalenediimide-Based Ligand <u>Hiroaki Iguchi,</u> Liyuan Qu,Shohei Koyama,Shinya Takaishi,Masahiro Yamashita
10:30	3D07	Polymer Recognition by Programmed Nanospace of MOFs <u>Nobuhiko Hosono</u> ,Biplab Manna,Takashi Uemura
		H. Iguchi, presiding
10:45	3D08	Synthesis and Structure of Feet-to-Feet Connected Bis- and Trisresorcinarenes <u>Daisuke Shimoyama</u> ,Toshiaki Ikeda,Ryo Sekiya,Hiroto Kudo,Takeharu Haino
11:00	3D09	Development of supramolecular network polymer via host-guest interactions and metal-coordination based on bisporphyrin cleft <u>Naoyuki Hisano</u> ,Nang Duy Lai,Takehiro Hirao,Takeharu Haino
11:15	3D10	Presise size control of polyhedral polymer gels and their assembly formation Ayano Michibata,Emi Takagi,Yuki Furukawa, <u>Kenta Kokado</u> ,Kazuki Sada
11:30	3D11	Surface selective modification of organic catalytic moiety on MOF crystal <u>Masato Yamashita</u> ,Kota Mishima,Kenta Kokado,Kazuki Sada
		D. Taura, presiding
12:30	3D12	Photo-Stimulus Shrinkable Nanotubes for Bio applications <u>Naohiro Kameta</u>
12:45	3D13	Structure of PMMA controlled by molecular recognition of fullerene and calix[5]arene <u>Kazushi Fukuta</u> ,Takehiro Hirao,Takeharu Haino
13:00	3D14	Synthesis of D- $\pi$ -A molecules bearing Lewis pairs and their assembled structure <u>Takahiro Yanbe</u> ,Ryohei Yamakado,Shuji Okada
		N. Hosono, presiding
13:15	3D15	Control Over Self-Assembly Pathway of Helicene Possessing Tris(phenylisoxazolyl)benzene Units <u>Yudai Ono</u> ,Kyohei Hirano,Takehiro Hirao,Takeharu Haino
13:30	3D16	Selective Formation of Double-Stranded Boron Helicates Composed of Different Molecular Strands <u>Daisuke Taura</u> ,Xiang Wang,Masaki Ito,Eiji Yashima
13:45	3D17	Helical supramolecular polymer produced through self-assembly of amino acid-functionalized tetrakisporphyrin <u>Naoka Fujii</u> , Takeharu Haino, Takehiro Hirao

# Room E

# Wed. May 27

# A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

		T. Isono, presiding
10:00	1E05	Anionic polymerization of divinylthiophene derivatives Ayaka Oguri, <u>Raita Goseki</u> ,Takashi Ishizone
10:15	1E06	Anionic polymerization of isopropenylthiophene derivatives <u>Yuki Kurishiba</u> ,Ayaka Oguri,Raita Goseki,Takashi Ishizone
10:30	1E07	Design of Cyclic Vinyl Polymer via Ring-closing Reaction without Diluted Condition and Direct Observation <u>Keiji Naruse</u> ,Yuki Muramatsu,Akinori Takasu,Masahiro Higuchi
10:45	1E08	Ring-opening polymerization of macrocyclic oligocarbonate with phosphazene superbase <u>Haobo Yuan</u> ,Ryo Tanaka,Yuushou Nakayama,Takeshi Shiono
	•	Y. Nakayama, presiding
11:00	1E09	Synthesis of lactic acid/glycolic acid alternating copolymer by organocatalytic ring-opening polymerization of 3-methylglycolide <a href="Takuya Isono">Takuya Isono</a> , Kaoru Takojima, Hiroshi Makino, Takuya Yamamoto, Kenji Tajima, Toshifumi Satoh
11:15	1E10	Control of Random Copolymerization of Alkyl Methacrylates Using Sequential Addition Flow System <u>Yusuke Takahashi</u> , Ibuki Shite, Aiichiro Nagaki
11:30	1E11	Anionic polymerization of <i>N,N</i> -dialkylacrylamides having nitrogen-containing ring structures <u>Yuki Inoue</u> ,Yuki Nemoto,Raita Goseki,Takashi Ishizone
		Y. Mori, presiding
12:30	1E12	Anionic polymerizability of 2,6-disubstituted styrenes <u>Mio Ishibashi</u> ,Raita Goseki,Takashi Ishizone
12:45	1E13	Synthesis of sequence-controlled oligomer composed of 1,1-diphenylethylene derivatives by anionic addition reaction Marika Suzuki,Kazuki Takahata,Raita Goseki,Takashi Ishizone
	:	K. Satoh, presiding
13:00	1E14ILY	7 Cationic Copolymerization of Vinyl and Cyclic Monomers Arihiro Kanazawa
13:30	1E16	Concurrent Cationic Vinyl-Addition and Ring-Opening Copolymerization of Vinyl Ethers and Oxiranes with Various Alkyl Substituents: Effects of the Structure of Oxiranes on the Frequency of Crossover Reactions <u>Yui Kawamura</u> , Arihiro Kanazawa, Sadahito Aoshima
13:45	1E17	Cationic Copolymerization of Vinyl Acetate and Cyclic Acetals <u>Junichi Azuma</u> ,Arihiro Kanazawa,Sadahito Aoshima
14:00	1E18	Curing Reaction of Epoxy Resin by Boronate Esters <u>Yasuyuki Mori</u> ,Shintaro Nagayama,Takeshi Endo
	•	A. Kanazawa, presiding
14:15	1E19	Development of new photosensitizers and approach to the efficient photoinitiators for cationic polymerization <u>Yusuke Miyauchi</u> , Yasunobu Ohno, Satoshi Watanabe, Toyofumi

		Shinozuka,Toshihiko Murai,Takeshi Endo
14:30	1E20	Synthesis and Reactions of Poly(tetrahydrofuran) with Initial- and Terminal- Groups for Conjugate Substitution Naoki Nagatsuka,Kentaro Maehara,Madoka Kitamura,Yasuhiro Kohsaka
14.45	1E21	
14:45	1E21	Cationic polymerization of dehydroaspirin: Vinyl polymerization vs. ring-opening polymerization <u>Akane Kazama</u> , Yasuhiro Kohsaka
15:00	1E22	Controlled Cationic Polymerization of Bicyclic Conjugated Diene Derived from
		Isosorbide <u>Hayato YOSHIDA,</u> Takenori NISHIDA,Mineto UCHIYAMA,Kotaro SATOH,Masami KAMIGAITO
15:15	1E23	Synthesis of Vinyl Polymer Periodically Containing Degradable Unit in Main Chain by Degenerative Chain-Transfer Living Cationic Polymerization Using Cyclic Thioacetal  Yukihiro Murakami, Mineto Uchiyama, Kotaro Satoh, Masami Kamigaito
		Y. Kohsaka, presiding
15:30	1E24	The Synthesis of Copolymers with Various Monomer Sequences and
15.50	1 <b>L</b> 24	Degradability via the Design of Cyclic Acetal Structures: The Controlled Cationic Copolymerization with Vinyl Monomers <u>Kazuya Maruyama</u> , Arihiro Kanazawa, Sadahito Aoshima
15:45	1E25	Synthesis of Copolymers Degradable under Versatile and Mild Conditions via Concurrent Vinyl-Addition and Ring-Opening Copolymerization of Trimethylsilyl Vinyl Ether and Cyclic Acetals
		Yuya Kinoshita, Ryusei Kato, Arihiro Kanazawa, Sadahito Aoshima
16:00	1E26	Design of multi-functional cyclic initiator for ring-expansion cationic polymerization toward solution of the issues <a href="Naoyuki Kusuyama">Naoyuki Kusuyama</a> , Makoto Ouchi
16:15	1E27	Control of Cationic Cyclopolymerization based on Thorpe-Ingold Effect and Development of Ring-Expansion Cyclopolymerization <u>Hiroyuki Kubota</u> , Makoto Ouchi
16:30	1E28	New Initiating Systems for Cationic Ring-Opening Polymerization of Oxiranes: Investigation toward Living Homo- and Copolymerization through the Stabilization of Propagating Species
		Masamichi Inoue, Arihiro Kanazawa, Sadahito Aoshima
Thu. N	Iay 28	
		A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS
		M. Ouchi, presiding
9:30	2E03	Cationic homopolymerization of alkene monomers and copolymerization with
		styrenes <u>Shunya Hasegawa,</u> Arihiro Kanazawa,Sadahito Aoshima
9:45	2E04	Stereoselective Cationic Polymerization of Vinyl Ethers using TADDOL Ligands Derived from Tartaric Acid <u>Hironobu Watanabe</u> ,Arihiro Kanazawa,Sadahito Aoshima
		K. Maeda, presiding

Ring-opening metathesis polymerization of norbornene lactones <u>Shin-ichi Matsuoka</u>,Narumi Miyasako,Masato Suzuki Synthesis and ring-opening metathesis polymerization of norbornadiene dimers <u>Kazuki Hase</u>,Shin-ichi Matsuoka,Masato Suzuki 10:15 2E06

10:00 2E05

# D. Hirose, presiding

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10:30	2E07	Addition Copolymerization of Norbornene Lactone by Pd Catalysts <u>Kosuke Isaji</u> ,Shin-ichi Matsuoka,Masato Suzuki
10:45	2E08	Metathesis polymerization of diphenylacetylenes containing trimethylsilylphenylacetylene and gas permeability of the obtained polymers <u>Toshikazu Sakaguchi</u> ,Hikaru Shimada,Tamotsu Hashimoto
11:00	2E09	Synthesis of polynorbornene-graft-polybutadiene and evaluation of its physical properties <u>Yui Kushima</u> ,Ryo Tanaka,Yuushou Nakayama,Takeshi Shiono
		M. Suzuki, presiding
11:15	2E10	Development of Controlled Polymerization of Phenylacetylenes Using Boronic Acid Derivatives as Initiators <u>Tsuyoshi Taniguchi</u> ,Takumi Yoshida,Kensuke Echizen,Kokoro Takayama,Tatsuya Nishimura,Katsuhiro Maeda
11:30	2E11	Revisiting and Improvement of Tungsten(VI)-Catalyzed Polymerization of Diphenylacetylenes <u>Mami Miyairi</u> ,Tsuyoshi Taniguchi,Tatsuya Nishimura,Katsuhiro Maeda
		T. Sakaguchi, presiding
12:30	2E12	Postpolymerization modification of poly(alkoxycarbonylmethylene)s: Alkylation of main chain carbon atoms via ketenesilylacetal-type intermediate Shogo Tsunematsu, <u>Hiroaki Shimomoto</u> , Tomomichi Itoh, Eiji Ihara
12:45	2E13	Quantitative Structural Analysis of Various Ziegler-Natta Catalysts with Synchrotron X-ray Total Scattering <u>Toru Wada</u> ,Gentoku Takasao,Patchanee Chammingkwan,Minoru Terano,Toshiaki Taniike
13:00	2E14	Bottom-Up Synthesis of Ziegler-Natta Catalyst with Multi-Grain Structure <u>Tomohiro Ikeda</u> ,Toru Wada,Patchanee Chammingkwan,Toshiaki Taniike
		K. Maeda, presiding
13:15	2E15	Synthesis and characterization of As-bridged 4,4'-bipyridines <u>Toshiki Fujii</u> ,Susumu Tanaka,Shotaro Hayashi,Hiroaki Imoto,Kensuke Naka
13:30	2E16	Synthesis and Photophysical Properties of Polymers Containing Boron Dialdiminate Complexes <u>Miyako Hashizume</u> ,Shunichiro Ito,Kazuo Tanaka
13:45	2E17	Synthesis of β-Diketiminate Complexes of the Group 13 Elements and Effects of the Central Element on Solid-State Luminescence Properties <a href="Shunichiro ITO">Shunichiro ITO</a> , Kazuo TANAKA, Yoshiki CHUJO
14:00	2E18	Development of new thermosetting system for microgel-containing epoxy resin. <u>Shuji Nishioka</u> , Hiroto Kudo
		T. Hirai, presiding
14:15	2E19	Synthesis of Helical Bottlebrush Polymers Consisting of Poly(phenylacetylene) Chains <u>Masato Yamamoto,</u> Tsuyoshi Taniguchi,Tatsuya Nisimura,Kazuki Miyata,Takeshi Fukuma,Katsuhiro Maeda
14:30	2E20	Synthesis and direct AFM observation of star-shaped polymers consisting of helical poly(phenylacetylene)s <u>Ayato INABA</u> ,Masato YAMAMOTO,Tsuyoshi TANIGUCHI,Kazuki MIYATA,Takeshi FUKUMA,Tatsuya NISHIMURA,Katsuhiro MAEDA
14:45	2E21	Helical conjugated poly(arylisocyanide) grafted from silicon substrate Emika Oomura,Sadayuki Asaoka
15:00	2E22	Characteristic and Controlled Aggregation of Thermoresponsive Multiarmed Star-Shaped Polymers

# Sayuri Takeshima, Shohei Ida, Shin-ichi Yusa, <u>Shokyoku Kanaoka</u>

# S. Kanaoka, presiding

15:15	2E23ILY	Preparation of polymer with well-controlled stereoregularity and evaluation of its structure and physical properties <u>Tomoyasu Hirai</u> ,Kei Manabe,Syuji Fujii,Yoshinobu Nakamura
15:45	2E25	Downsizing of Microphase-Separated Structure by One-Step Intramolecular Crosslinking of Block Copolymer Noya Kaizawa,Kodai Watanabe,Takuya Isono,Takuya Yamamoto,Kenji Tajima,Toshifumi Satoh
16:00	2E26	Synthesis and physical properties of graft polymers with cage-shaped macrocyclic side chains <u>Maho Sudo</u> , Yoshinobu Mato, Takuya Isono, Takuya Yamamoto, Kenji Tajima, Toshifumi Satoh

# Fri. May 29

# A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

# T. Terashima, presiding

		1. Terasnima, presiding
9:30	3E03	Synthesis and Evaluation of Polynuclear Metal Complexes Based on Polyhedral Oligomeric Silsesquioxane <u>Daisuke Iizuka</u> , Hayato Narikiyo, Masayuki Gon, Kazuo Tanaka
9:45	3E04	Development of extreme ultraviolet(EUV) resist materials based on special structure oligomers containing Calixarenes in the main chain. <u>Hiroyuki Maekawa</u> , Hiroto Kudo
10:00	3E05	Synthesis and Applications of Stimuli-responsive Magnetic Nanoparticles Based on Living Coordination Polymerization of Allenes Rina Asami, Takeshi Wakiya, Hiroki Nishiyama, Shinsuke Inagi, Yoshitaka Kitamoto, <u>Ikuyoshi Tomita</u>
10:15	3E06	Synthesis of Ladder Polymers by using Polymer Direct Arylation <u>Koji Takagi</u> ,Hidetoshi Tanaka
		K. Takagi, presiding
10:30	3E07	Self-Assembled Materials Based on Amphiphilic Folded Polymer Micelles: Nanodomain Design and Hydrogels <u>Takaya Terashima</u> ,Yasuyuki Ommura,Takehiro Itami
10:45	3E08	Crystallization and microphase separation of multi-component random and block copolymers <u>Sahori Imai</u> , Yasuyuki Ommura, Makoto Ouchi, Takaya Terashima
11:00	3E09	Sub-5 nm Microphase Separation of Random Copolymers with Crystalline Pendants and Hydrogen-Bonding Units <u>Takaya Ikami</u> ,Makoto Ouchi,Takaya Terashima
11:15	3E10	Development of Fluorescence Sensors Based on Polyhedral Oligomeric Silsesquioxane Possessing Flexible Side-Chains <u>Hayato Narikiyo</u> ,Masayuki Gon,Kazuo Tanaka
11:30	3E11	Synthesis and properties of special structure polymers by the polyaddition of t-butylcalix[n]arene(BCA[n])(n=4,8) and bifunctional epoxides Naoto Sakaguchi, Hiroto Kudo
		E. Sato, presiding
12:30	3E12	Effects of number of arms on the mechanical properties of star cyclic olefin copolymer <u>Ryo Tanaka</u> , Takumitsu Kida, Koh-hei Nitta, Takeshi Shiono

12:45	3E13	Synthesis and property of Botryosin type polymers containing cyclodextrin moieties in the main chain. <u>Shogo Hayashi</u> , Hiroto Kudo
13:00	3E14	Synthesis and evaluation of necklace polymers having completely and incompletely condensed cage-silsesquioxanes <u>Taihei Hayashi</u> , Ayano Ishida, Hiroaki Imoto, Kensuke Naka
13:15	3E15	Grafting of Poly(vinyl ether): Organic Catalyzed Ring-Opening Polymerization of Cyclic Esters from Poly[(2-hydroxyethyl vinyl ether)-ran-(vinyl acetate)] <u>Akane Ohori</u> ,Shinji Sugihara,Yasushi Maeda
	:	I. Tomita, presiding
13:30	3E16	Synthesis and gas permselectivity of 2D-polymer containing polyacetylene composite membranes (1) Excellent oxygen permselectivity of 2D polymer containing composite membranes synthesized by membrane interface polycondensation  Yanqing Qu,kehan Cheng,Masahiro Teraguchi,Takashi Kaneko,Toshiki Aoki
13:45	3E17	Synthesis and gas permselectivity of 2D-polymer containing polyacetylene composite membranes (2): Enhancement of the oxygen permselectivity by partial polymer reactions in the membrane state using the supramolecular structures of the starting polyacetylene membranes as templates Shohei Takeda, Masahiro Teraguchi, Takashi Kaneko, Toshiki Aoki
14:00	3E18	Synthesis of Dual Curable Hyperbranched Polymers and Their Application to Dismantlable Adhesives Eriko Sato, Seidai Okada
14:15	3E19	Synthesis of graft acrylic polymers by utilizing liquid polyesters bearing ATRP initiating points at the side groups for creation of acrylic resins with enhanced toughness.  Mikihiro Hayashi, Keisuke Shibata, Shogo Nobukawa, Akinori Takasu
14:30	3E20	Synthesis and Orientation of T-Shaped Poly(3-hexylthiophene)s <u>Masayuki Wakioka</u> ,Kai Ku,Fumiyuki Ozawa

# Room F

# Wed. May 27

# D. BIOPOLYMERS AND BIORELATED POLYMERS

# M. Ikeda, presiding

10:30	1F07ILY	Development of polymeric materials through bio synthetic interaction and fusion Masaki Nakahata
11:00	1F09	Preparation and UCST like behavior of sulfabetaine-PEG copolymer Nobuyuki Morimoto, Masaya Yamamoto
11:15	1F10	Synthesis of Conjugated Polymer Thin Film Having Choline Phosphate as Side Groups and Their Surface Properties Masaru Mukai, Chao-Hung Cheng, Wei Ma, Mi Chin, Chia-Hsin Lin, Shyh-Chyang Luo, Atsushi Takahara
11:30	1F11	DNA function switching by coacervate-forming UCST-type ureido polymers Naohiko Shimada, Shunya Kawai, Atsushi Maruyama
	ľ	N. Morimoto, presiding
12:30	1F12	Activity-Controlling of Enzymes by UCST-type Ureido Polymer Forming

		Coacervate <u>Takuya KOMACHI,</u> Naohiko SHIMADA,Atsushi MARUYAMA
12:45	1F13	Control of Macrophage Phenotypes using Apoptotic Cell Membrane Mimetic Polymers Jeonggyu Lee, <u>Mitsuhiro Ebara</u>
13:00	1F14	Design of Stimuli-responsive Gels by Entropy Suppression of Polymer Chains and Their Dynamic Molecular Binding Regulation <u>Takashi Miyata</u> , Masaaki Kanazawa, Akifumi Kawamura
13:15	1F15	Convective meniscus splitting of polysaccharide microparticles and the effect of substrate wettability <u>Kosuke Okeyoshi</u> ,Isamu Saito,Yoshiya Tonomura,Miki Yamashita,Kulisara Budpud,Gargi Joshi,Maiko Okajima,Tatsuo Kaneko
13:30	1F16	Thermo-responsiveness of random copolymers composed of 2-acrylamide phenyl boronic acid and amino acid-derived vinyl monomer <u>Takumi Odama</u> ,Nobuyuki Higashi,Tomoyuki Koga
		N. Shimada, presiding
13:45	1F17	Development of supramolecular hydrogels comprising of biomolecular hybrids <u>Masato Ikeda</u>
14:00	1F18	Fabrication of tough hydrogels filled with hydrophobic particles. <u>Taka-AKi Asoh</u> , Tatsuya Yamamoto, Hiroshi Uyama
14:15	1F19	Shape Memory Hydrogels Composed of Amino Acid-derived Vinyl Polymer Network Cross-linked with Disulfide Bond <u>Tomoyuki KOGA</u> ,Yutaro YAMAGUCHI,Nobuyuki HIGASHI
14:30	1F20	Shape memory hydrogels from graft-type peptide-polymer hybrids <u>Tomoyuki KOGA</u> ,Hideki MOTODA,Nobuyuki HIGASHI
		T. Koga, presiding
14:45	1F21	Development of Plastic Antibody incorporating Homogeneous Oligomer as hypervariable loop Yusuke Saito, Sotaro Akashi, Hinata Takimoto, Yu Hoshino, Yoshiko Miura
15:00	1F22	
13.00	11 22	Fabrication of silica-based cellular replicas maintaining the morphology of living cell and analysis of cellular behaviors cultured on the replicas <u>Tokitaka Katayama</u> ,Koji Nagahama
15:15	1F23	Biomolecular motors promote dynamics of microtubule lattice <u>Daisuke Inoue</u> ,Sarah Triclin,Jeremie Gaillard,Laurent Blanchoin,Manuel Thery
15:30	1F24	The control of catalytic activity and selectivity of polymer-supported organocatalyst by the interaction with a small molecule <a href="Kota Mishima">Kota Mishima</a> , Naoki Fukaya, Kenta Kokado, Kazuki Sada
15:45	1F25	Order-structural control of gelatin hydrogel by self-assembly <u>Kazuki Murai</u> ,Kohei Kawaguchi,Shuhei Komatsu,Akihiko Kikuchi

# Thu. May 28

# **AWARD LECTURES**

# M. Ikeda, presiding

# K. Numata, presiding

10:45  $\,$  2F08AL Phase Separation during Bulk Polymerization of Methyl Methacrylate  $\,$  Yasuhito Suzuki

# T. Yasuda, presiding

# D. BIOPOLYMERS AND BIORELATED POLYMERS

# Y. Arima, presiding

12:30	2F12	Cell Behavior on Photo-responsive Polymer Films with Controllable Surface Modulus
		<u>Takashi Miyata</u> ,Misato Higashino,Akifumi Kawamura
12:45	2F13	Maintaining undifferentiated state and multipotency of adipose-derived stem cells cultured in biodegradable injectable polymer hydrogel Nozomi Mayumi, Yuta Yoshizaki, Akinori Kuzuya, Yuichi Ohya
13:00	2F14	Structural Analysis of Biocompatible Polycarbonate/Polylactide Block Copolymers and Its Correlation with Biological Functions <u>Kazuki FUKUSHIMA</u> ,Masayoshi JOHMEN,Ikue MITANI,Takashi KATO
13:15	2F15	Design of Dual Stimuli-Responsive Polymers That Respond to Both Visible Light and Temperature and Their Applications as Cell Culture Substrates <u>Masaaki Okihara</u> , Akifumi Kawamura, Takashi Miyata
13:30	2F16	Novel cell manipulation based on photo-selective release of micro-patterned polymer thin layers <u>Kimio Sumaru</u> ,Toshiyuki Takagi,Kana Morishita,Toshiyuki Kanamori
		K. Fukushima, presiding
13:45	2F17	Design and Function of Polymer Materials Capable of Photo-induced LCST Shift under Cell Culture Conditions <u>Yuji Tsuchido</u> ,Rina Watanabe,Keiichi Imato,Naoya Takeda
14:00	2F18	Design of azobenzene containing polymer exhibiting photo-induced phase transition and its application as a mechanobiological material <a href="Kenta Homma">Kenta Homma</a> , Alice Ching-Hsuan Chang, Tamate Ryota, Shota Yamamoto, Takeshi Ueki, Jun Nakanishi
14:15	2F19	Construction of Collagen Gels with Reversible Thermosensitivity by Controlling Self-Assembly of Collagen Nanofibers <u>Michiya Matsusaki</u> , Yuichi Yukawa, Hirotaka Nakatsuji, Shinji Irie
14:30	2F20	Preparation and degradation behavior of polysaccharide nanogel-PEG hybrid gel sheets <u>Mengzhe Li</u> ,Kazunari Akiyoshi,Yoshihiro Sasaki,Shin-ichi Sawada
		M. Matsusaki, presiding
14:45	2F21	Promotion of cell fusion through cell-cell attachment by cell surface modification using functional peptide-conjugated PEG-lipid Yuji Teramura, Sayumi Watanabe, Kazuhiko Ishihara
15:00	2F22	Cell surface modification with cell-penetrating peptide-conjugated PEG-lipid for rapid adhesion to substrate <u>Makoto Noiri</u> ,Yuya Goto,Kazuhiko Ishihara,Yuji Teramura
15:15	2F23	Cell culture on floating hydrogel sheet for enhancement of physiological cell functions <u>Atsushi Tsuyukubo</u> ,Kimio Sumaru,Kana Morishita,Toshiyuki Kanamori
15:30	2F24	Fabrication of adipose-derived stem cell-based hydrogel as focal administered tissue regenerative materials <a href="Maintenance">Natsumi Ueda</a> , Koji Nagahama

# D. BIOPOLYMERS AND BIORELATED POLYMERS

	3	7. Teramura, presiding
9:30	3F03	Luminal surface characteristics reqruied for long-term patency of acellular small-diameter vascular grafts <u>Tetsuji Yamaoka, YI Hsu, Hiroki Yamanaka, Kentaro Kojima, Maria Munisso, Naoki Morimoto, Yoshiaki Hirano, Atsushi Mahara</u>
9:45	3F04	Induction of growth factor-free angiogenesis by hydrophobically-modified gelatin hydrogel <u>Yosuke Mizuno</u> ,Tetsushi Taguchi
10:00	3F05	Fabrication of 3D blood vessel wall model using elastin microfiber for in vitro reconstruction of arteriosclerotic processes <u>Hirotaka Nakatsuji</u> , Masatsune Ogura, Mariko Shiba, Michiya Matsusaki
10:15	3F06	Formation of multicellular aggregate by cell surface engineering with recombinant proteins <u>Yusuke Arima</u> ,Kosuke Shibanuma,Yusuke Hirai
	I	K. Sumaru, presiding
10:30	3F07	Application of DNA Quadruplex Gel as Cell Preservation Medium Yuhei HACHIRO, Shinsuke YUKAMI, Shizuma TANAKA, Yuichi OHYA, Akinori KUZUYA
10:45	3F08	Preparation of carbonated apatite capsules carrying dual-drugs for bone regeneration Shuhei Abe, Syuuhei Komatsu, Taka-Aki Asoh, Akihiko Kikuchi
11:00	3F09	Preparation of Transparent Molecules for Deep Observation of Living Three- dimensional Tissue <u>Kazuma Ishiguro</u> , Hirotaka Nakatsuji, Michiya Matsusaki
11:15	3F10ILY	Development of polymeric materials and devices for the treatment of cardiovascular diseases <u>Yusuke Kambe</u>

# A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS

# K. Sada, presiding

12:30	3F12ILY	Synthetic polymer chemistry and material applications based on multi- component reactions <u>Ryohei Kakuchi</u>
13:00	3F14	Synthesis of telechelic polymers using the living polymerization of phenylacetylenes. <u>Kensuke Echizen</u> ,tsuyoshi Taniguchi,Tatsuya Nishimura,Katsuhiro Maeda
	1	C. Nishimura, presiding
13:15	3F15	Design of Stereoselective Cationic Polymerization Systems Based on the Monomer Structure: Effect of the Substituents and Chirality <u>Hironobu Watanabe</u> , Takuya Yamamoto, Satoshi Okumoto, Arihiro Kanazawa, Sadahito Aoshima
13:30	3F16	Cationic copolymerization of <i>o</i> -phthalaldehyde and vinyl monomers: Effects of the substituents of vinyl monomers on the copolymerization behavior Keisuke Hayashi, Arihiro Kanazawa, Sadahito Aoshima

13:45	3F17	"Solid state" cationic ring-opening polymerization of 1,3,5-trioxane: Frozen polymerization for suppression of oligomer formation and synthesis of ultrahigh molecular weight polymers <u>Chihiro Suemitsu</u> , Arihiro Kanazawa, Sadahito Aoshima
		S. Aoshima, presiding
14:00	3F18	Control of chain growth by encounter probability between monomers <u>Kazuki Sada</u> ,Kenta Kokado
14:15	3F19	Preparation of pillared-layer MOF cross-linked with bifunctional monomer <u>Hiroki Amaya,</u> Tokiyo Katou,Shizuka Anan,Takumi Ishiwata,Kenta Kokado,Kazuki Sada
14:30	3F20	Synthesis of high-refractive-index polymers by thiol-ene reaction of styrenic bismuth monomers <u>Yoshimasa Matsumura</u> ,Kikuo Furukawa,Miyuki Miyamoto,Yoshio <u>Nishimura</u> ,Bungo Ochiai

### Room G

# Wed. May 27

13:45 1G17

### D. BIOPOLYMERS AND BIORELATED POLYMERS

# T. Takeuchi, presiding Development of chiral amplification system using artificial nucleic acid Hiramy Vashida Vaiii Nishilayya Jahiya Hayyahi Takahiya Valuta Tama

		Hiromu Kashida, Keiji Nishikawa, Ichiyo Hayashi, Takahiro Kakuta, Tomoki
		Ogoshi,Hiroyuki Asanuma
14.00	1618	Augmentation of decourribogume activity by actionic conclumers

14:00	1G18	Augmentation of deoxyribozyme activity by cationic copolymers
		Orakan Hanpanich,He Huang,Krittika Rudeejaroonrung,Naohiko
		Shimada, <u>Atsushi Maruyama</u>

14:15 1G19 Non-enzymatically degradable cationic polyaspartamide derivatives for mRNA delivery

Yuta Otsu, <u>Mitsuru Naito</u>, Rimpei Kamegawa, Kotaro Hayashi, Satoshi Uchida, Hyun Jin Kim, Kanjiro Miyata

14:30 1G20 Single Molecule Analysis of Excluded Volume Effect Using DNA origami Modified with PEG

<u>Yuta Okamoto,</u>Shota Abe,Yoshihiro Iida,Kota Sakamoto,Yuichi Ohya,Akinori Kuzuya

### A. Maruyama, presiding

14:45	1G21	Detection of genomic DNA sample from E. coli O157 by bioluminescence using
		the pipette tip-type automatic sensing system
		Eri Takano, Nobuaki Shimura, Yukiya Kitayama, Hirobumi Sunayama, Kazunori
		Ikebukuro,Toshifumi Takeuchi

15:00 1G22 Aptamer-fused polymeric nanocavities for highly sensitive detection of extracellular vesicles

Minako Takai,Eri Takano,Hirobumi Sunayama,Yukiya Kitayama,<u>Toshifumi</u> Takeuchi

15:15 1G23 Generation of protein characteristic patterns using cross-reactive capability of DNAs

<u>Shunsuke Tomita,</u>Hiroka Sugai,Masahiro Mimura,Ishihara Sayaka,Kentaro Shiraki,Ryoji Kurita

# D. BIOPOLYMERS AND BIORELATED POLYMERS

		T. Tanaka, presiding
9:30	2G03	Gel Formation from Poly(2-oxazoline)-grafted Chitin Nanofibers <u>Seiya Kitasono, Kazuya Yamamoto, Jun-ichi Kadokawa</u>
9:45	2G04	Film Formation from Low Molecular Weight Chitin Esters <u>Eisuke Sasaki</u> ,Kazuya Yamamoto,Jun-ichi Kadokawa
10:00	2G05	Effect of constituent parameters on Swelling Behavior of Chitosan-Genipin Gel Yu totsuka,Yasutaka Anraku,Ichiro Sakuma, <u>Yuki Akagi</u>
10:15	2G06	Preparation of honeycomb-like porous chitosan films <u>Hironori Izawa</u> ,Haruya Kajimoto,Shinsuke Ifuku,Minoru Morimoto,Hiroyuki Saimoto
		S. Sawada, presiding
10:30	2G07	Control of Internal Structure of Polysaccharide Composite Films Using Electric Fields <u>Yayoi Yoda</u> ,Yusuke Yataka,Mineo Hashizume
10:45	2G08	Development of Polysaccharide Composite Films Capable of Releasing Hydrophobic Drugs <u>Rie Goto</u> ,Yusuke Yataka,Mineo Hashizume
11:00	2G09	Aqueous synthesis of glycopolymers bearing oligosaccharide by post- polymerization modification on QCM sensor chip and their binding affinities with proteins <u>Sotaro Tsuji</u> ,Tomonari Tanaka
11:15	2G10	Development of drug delivery system for tissue fibrosis by N-acetylglucosamine(GlcNAc) polymer-specific binding activity of vimentin. <a href="Inu Song">Inu Song</a> , Beomju Hwang, Idumi Hamano, Hirohiko Ise
11:30	2G11	Preparation of Glycopolymer Library by PET-RAFT Polymerization and Molecular Recognition Ability <u>Yoshiko Miura</u> , Yuri Kimoto, Takeshi Uemura, Yu Hoshino
		M. Hashizume, presiding
12:30	2G12	Design and characteristics of nanogel cross-linked porous gel with degradable linker Shin-ichi Sawada, Ryo Hirose, Yoshihiro Sasaki, Kazunari Akiyoshi
12:45	2G13	Design and functional evaluation of amphiphilic block copolymer for sugar structure presentation on lipid membrane surface Ryuji Fujihara, Tomoki Nishimura, Yoshihiro Sasaki, kazunari Akiyoshi
13:00	2G14	Synthesis and Functions of Oxazoline-Hybrid Unnatural Oligoaminosaccharides Yuta Koda
13:15	2G15	Enzymatic Synthesis of 6-Deoxyamylose Oligomer <u>Le Hooi Lee</u> ,Kazuya Yamamoto,Jun-ichi Kadokawa
		K. Matsuura, presiding
13:30	2G16	Enrichment Of Biomarker For Infectious Diseases By Using "Smart Antibody" Engineered With Temperature-Responsive Polymer <u>Keita Hironaka</u> ,Akihiko Kikuchi,Ebara Mitsuhoro
13:45	2G17	Detection of influenza virus using sugar-mimic peptides modified polystyrene particle <u>Ai Yamaguchi,</u> Teruhiko Matsubara,Akane Kubo,Ryunosuke Kuriyama,Toshinori Sato
14:00	2G18	Ultra-sensitive assay of protease activity on gelatin hydrogel using ink-jet micro-

		patterning <u>Mikiko Tsudome</u> ,Shigeru Deguchi
14:15	2G19	Regulation of stem cell behavior by chiral nanofibrous peptide hydrogels <u>Toru Yoshitomi</u> , Hangyu Zheng, Gouping Chen, Keitaro Yoshimoto
		T. Sato, presiding
14:30	2G20	Monitoring of the adsorption of serum albumin onto the single-walled carbon nanotube surface with fatty acid. <u>Kenta Nakamura</u> , Yoshiaki Niidome, Yukiko Nagai, Naoki Tanaka, Tomohiro Shiraki, Takeshi Mori, Yoshikli Katayama, Tsuyohiko Fujigaya
14:45	2G21	Construction of gold nanoparticle-encapsulated microtubules by using a Tauderived peptide

Cell Adhesion Behavior on Polyamide with Different Thermal Histories

10:30 3G07

		Kyoko Oku, Takuya Matsumoto, Takashi Nishino
10:45	3G08	Interaction between peptide-modified ePTFE and blood cells <u>Tomoyuki Azuma</u> ,Tetsuji Yamaoka
		K. Shiraishi, presiding
11:00	3G09	Endothelial cell capturing ability on REDV peptide-immobilized acellular surface <u>Seina Yamada</u> ,Atsushi Mahara,Toshiya Fujisato,Tetsuji Yamaoka
11:15	3G10	Antiplatelet adhesion behavior of poly(L-lactide-co-glycolide)-poly(1,5-dioxepan-2-one) copolymers <u>Mitsutoshi Jikei, Keita Kashiwaya, Mao Takeda, Kazuya Matsumoto, Masaki Hikida, Shigeharu Ueki</u>
11:30	3G11	Preparation of degradable hydrogel surfaces with re-oriented PEG-grafts for removal of adsorbed protein layer <u>Tatsuki KAMIYA</u> ,Syuuhei KOMATSU,Akihiko KIKUCHI
		S. Asayama, presiding
12:30	3G12	Study of Polymeric Films Prepared by Amphiphilic Copolymers of Glycerol Dendrons <u>Tooru Ooya</u> ,Satoshi Hirakawa,Midori Goda
12:45	3G13	Influence of MPC Polymer Coating on Coagulation and Complement System in Human Whole Blood <u>Kenta Asawa</u> ,Sana Asif,Yuuki Inoue,Kazuhiko Ishihara,Bo Nilsson,Yuji Teramura
13:00	3G14	Study of swelling behaviors of MPC polymer-coated surface by using a new wettability assessment AILE method <a href="https://chee.coated-surface-by-using-a-new-wettability-assessment-AILE method">Chie KOJIMA</a> , Risa KATAYAMA, Nobuyuki TANAKA, Yo TANAKA, Kohei SHIRAISHI, Akikazu MATSUMOTO
13:15	3G15	Synthesis of polyolefin-based nonthrombogenic materials with focusing on polymer-water interaction

# Room H

# Wed. May 27

# D. BIOPOLYMERS AND BIORELATED POLYMERS

# T. Niidome, presiding

10:15	1H06	Synthesis of Brush Polymer Particles and Their Antitumor effects Shin Takano, Shota Fujii, Kazuo Sakurai
10:30	1H07	Bone-targeting zwitterionic polymers to deliver lipophilic drugs to metastatic cells
		Akihisa Otaka,Ryoya Saisho,Toru Hiraga,Yasuhiko Iwasaki
		T. Mori, presiding
10:45	1H08	Design and function of hybrid extracellular vesicles for biopharmaceutical delivery <u>Raga Ishikawa</u> ,Shosuke Yoshida,Shin-ichi Sawada,Yoshihiro Sasaki,Kazunari
		Akiyoshi
11:00	1H09	Characterization of TiO2 nanoparticles-incorporated polyion complex with both immune cell activation ability and antigen delivery function <u>Misaki Kitagawa</u> ,Eiji Yuba,Atsushi Harada
11:15	1H10	Synthesis of Albumin-Hemoglobin Nanoparticle as an Artificial O <sub>2</sub> Carrier <u>Wataru Okamoto</u> ,Mai Hasegawa,Yoshitsugu Morita,Teruyuki Komatsu
11:30	1H11	Cellular interaction of molecularly imprinted polymer nanogels capable of protein corona regulation using intrinsic serum albumin Yukiya Kitayama,Natsuki Hayakawa,Takuya Yamada,Toshifumi Takeuchi
		Y. Kitayama, presiding
12:30	1H12	Heat-induced stabilization and pharmacokinetic control of platinum-complexed polymeric micelles <u>Yuki Mochida</u> ,Horacio Cabral,Kazunori Kataoka
12:45	1H13	New evaluation method of PEG antibody and relationship between PEG and ABC phenomenon Koichi Arai,Shota Fujii, <u>Kazuo Sakurai</u>
13:00	1H14	Clarification of cellular uptake mechanism of PMEA analogs based on polymer- cell interaction Hiroki Uehara,Kei Nishida,Shingo Kobayashi,Masaru Tanaka
13:15	1H15	Exploration of anti-inflammatory polyamine and development of anti-inflammatory polysaccharide
		Akihiro Nishiguchi, Tetsushi Taguchi
10.00		A. Kishimura, presiding
13:30	1H16	Impacts of self-assembled antioxidants on intensive long-time running <u>Takuto Toriumi</u> ,Ahram Kim,Syoichi Komine,Ikuru Miura,Suminori Nagayama,Hajime Ohmori,Yukio Nagasaki
13:45	1H17	Development of extracellular and intracellular condition-responsive linker for cancer cell-selective drug delivery system Yuka Matsuhashi,Kenta Ootake,Yan Cheng,Masaki Nishijima,Yasuyuki Araki, <u>Takehiko Wada</u>
14:00	1H18	Development of Shape-memory Balloon for Bone Tumor Treatment Sosuke Ouchi, Akihiko Kikuchi, <u>Mitsuhiro Ebara</u>
14:15	1H19	PLGA nanoparticles that release drugs responding to near infrared light Ryo Yamashita, <u>Takuro Niidome</u>
		K. Osada, presiding
14:30	1H20	Preparation of multi stimuli-responsive hydrogel for stimuli-responsive loading and release of proteins Moeno Tago, <u>Syuuhei Komatsu</u> ,Taka-Aki Asoh,Akihiko Kikuchi
14:45	1H21	Development of poly(amino acid) bearing gemcitabine pendant via cyclic acetal linkage for enhanced antitumor activity and decreased side effects <u>Hiroyasu Takemoto</u> , Takahiro Nomoto, Makoto Matsui, Yutaka Miura, Nobuhiro Nishiyama

15:00	1H22	Stimuli-responsive properties and delivery to immune cells of phenylalanine-modified dendrimers with carboxyl termini <a href="Chie KOJIMA">Chie KOJIMA</a> , Mamiko TAMAKI, Misaki NISHIO, Yutaka NISHIMOTO, Akikazu MATSUMOTO
		H. Takemoto, presiding
15:15	1H23	Creation of DNA micelle using temperature-responsive polymer <u>Miyo Soejima</u> ,Shota Fujii,Kazuo Sakurai
15:30	1H24	Antisense nucleic acid delivery to tumor using polysaccharide <u>Kazuki Sumiya</u> ,Hiroto Izumi,Yasuo Morimoto,Shinichi Mochizuki,Kazuo Sakurai
15:45	1H25	Stabilization of siRNA nanoparticle by fine tuning cationic poly(amino acid)s <u>Kotaro Hayashi</u> ,Kazuko Toh,Shigeto Fukushima,Kanjiro Miyata,Kanjiro Kataoka
16:00	1H26	Stroma penetration of pancreatic tumor by single-strand DNA-loaded polyplex micelles <u>Kensuke Osada</u> ,Theofilus Tockary,Kazunori Kataoka

# Thu. May 28

# D. BIOPOLYMERS AND BIORELATED POLYMERS

		C. Kojima, presiding
9:30	2Н03	Functions of cationic polysaccharide nanogels as nanocarrier for cancer vaccine <u>Kazuki Ikeda</u> ,Risako Miura,Shin-ichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi
9:45	2H04	Design of adjuvant-loaded nanogels for immune stimulation Shogo Aso, Shin-ichi Sawada, Yoshihiro Sasaki, Kazunari Akiyoshi
10:00	2H05	Development of sustained-release type vaccine formulations using temperature-responsive biodegradable injectable polymers <u>Yuta Yoshizaki</u> , Akinori Kuzuya, Yuichi Ohya
		S. Mochizuki, presiding
10:15	2Н06	Enhancement of ADCC by high affinity antibody recruiting molecules <u>Yunosuke Oshiro,</u> Hiroshi Tarawa,Koichi Sasaki,Akihiro Kishimura,Takeshi Mori,Yoshiki Katayama
10:30	2H07	Combination cancer therapy of nanogel vaccine and immune checkpoint antibody <a href="Risako Miura">Risako Miura</a> , Shin-ichi Sawada, Yoshihiro Sasaki, Kazunari Akiyoshi
10:45	2H08	Development of magnetically induced nanogels for in vivo delivery of biopharmaceuticals <u>Ryosuke Mizuta</u> ,Riku Kawasaki,Shin-ichi Sawada,Yoshihiro Sasaki,Kazunari Akiyoshi
		Y. Sasaki, presiding
11:00	2Н09	Protection of gut micribiome from antibiotics by using vancomycin-selective adosrbent microparticles <u>Kurumi Matsuo</u> , Kazuki Yuzuriha, Kyosuke Yakabe, Shunyi Li, Akihiro Kishimura, Koji Hase, Yun-Gi Kim, Takeshi Mori, Yoshiki Katayama
11:15	2H10	Gut Microbiome Protection by Using Antibiotic Capturing Ion-exchange Resin <u>Shunyi Li,</u> Zai Khadijah,Kyosuke Yakabe,Akihiro Kishimura,Takeshi Mori,Yungi Kim,Kouji Hase,Yoshiki Katayama
11:30	2H11	Modulation of cell adhesion based on water state of polymer substrates and

Kei Nishida, Takahisa Anada, shingo Kobayashi, Masaru Tnaka

# A. Kikuchi, presiding

plasma membrane for cell sorting

12:30	2H12ILY	Design of Polymers Grafting Metal Complexes Toward Biomaterial Application Shigehito Osawa, HIdenori Otsuka
	1	N. Shimada, presiding
13:00	2H14	Design and self-assembly of amphiphilic graft poly(vinyl alcohol) <u>Yusuke Hatatani</u> ,Tomoki Nishimura,Yoshihiro Sasaki,Kazunari Akiyoshi
13:15	2H15	Differential Scanning Calorimetry Analysis of Hydrated States of Cholinephosphate-type Polyzwitterion and its Stable Conformation Shohei Shiomoto, Kazuo Yamaguchi, Hiroki Uehara, Masaru Tanaka, Hiromitsu Takaba, Motoyasu Kobayashi
13:30	2H16	Evaluation of permeability of amphiphilic phospholipid polymer through epithelial barrier <u>HIroaki Hatano</u> ,Kazuhiro Ishihara,Yuji Miyahara,Tatsuro Goda
	1	M. Kobayashi, presiding
13:45	2H17	Control of lipid membrane morphology by amphiphilic polymer: Induction of dendrite-like structure <u>Tatsuhiko Murata</u> , Tomoki Nishimura, Shin-ichi Sawada, Yoshihiro Sasaki, Kazunari Akiyoshi
14:00	2H18	Interaction of lipid nanodiscs spontaneously formed by amphiphilic polymers with cells <u>Kazuma Yasuhara</u> , Yuma Mitsuyoshi, Jinyu Hao, Gwenael Rapenne
14:15	2H19	Polyion complex micelles made from pH-responsive block polymer having phospholipid membrane destruction Ken Gotoh,Syuuhei Komatsu,Glen S. Kwon,Akihiko Kikuchi
		T. Muraoka, presiding
14:30	2H20	2D-3D reversible conversion of lipid membranes by cationic copolymer/anionic peptide <u>Naohiko Shimada</u> , Takuro Ochiai, Tsukuru Masuda, Yamada Takayoshi, Atsushi Maruyama
14:45	2H21	Elucidation of lipid membrane degradation behavior by sphingomyelinase using AFM
15.00	01100	Ayumi Muroya, Rina Tanaka, Keisuke Kurihara, Toshiaki Mori
15:00	2H22	The formation and disassembling mechanism of pseudopolyrotaxane self- organizing nanosheets <u>Kengo Kasai</u> ,Rina Maeda,Shuntaro Uenuma,Koichi Mayumi,Hideaki Yokoyama,Kohzo Ito
	•	T. Mori, presiding
15:15	2H23	Glycine Substitution Effects on Self-assembly of Amphiphilic Peptides <u>Takahiro Muraoka</u> , Atsuya Ishida, Itsuki Ajioka, Go Watanabe
15:30	2H24	Preparation of functional nanoparticles from sequential peptide-poly(lactic acid) blockpolymers <u>Togo Yamazaki</u> ,Nobuyuki Higashi,Tomoyuki Koga
15:45	2H25	Fusogenic hybrid vesicle composed of amphiphilic polypeptide and phospholipid <u>Motoki Ueda</u> ,Mohammed Abosheasha,Yoshihiro Ito
16:00	2H26	Recruitment of susceptibility to membrane active peptides by cationic copolymers Wakako Sakamoto,Tomoka Takenaka,Naohiko Shimada, <u>Atsushi Maruyama</u>

# Fri. May 29

# D. BIOPOLYMERS AND BIORELATED POLYMERS

# T. Shiraki, presiding

9:30	3H03IL	Y Morphological Changes of Lipid Vesicles by the Interaction of Supramolecular Nanofibers Kouta Sugikawa
		T. Sawada, presiding
10:00	3Н05	Design of polymer vesicles with selective molecular permeability and the function as artificial channels <u>Tomoki Nishimura</u> ,Shin Hirose,Yoshihiro Sasaki,Kazunari Akiyoshi
10:15	3Н06	Construction and functional evaluation of vesicular polyion complexes comprising oligonucleotide-intercalated membrane <a href="Mailto:Kanjiro Miyata">Kanjiro Miyata</a> , Beob Soo Kim, Mitsuru Naito, Hyun Jin Kim, Kazunori Kataoka, Akihiro Kishimura
10:30	3Н07	Addition of antibiotic resistance to plants by delivery of PICsome containing enzyme <u>Seiya Fujita</u> ,Kousuke Tsuchiya,Keiji Numata
10:45	3Н08	Characterization of PIC micelles with different mixing anion/cation ratio in biological condition  Noriko Nakamura, Shigeto Fukushima, Horacio Cabral, Kazunori Kataoka, Yasutaka Anraku
		K. Miyata, presiding
11:00	3Н09	Effect of supramolecular nanofibers on liposome gels Kouta Sugikawa, <u>Hiromu Yamada</u> ,Riku Kawasaki,atsushi Ikeda
11:15	3H10	Dynamics of wrinkling on hydrogel surface fabricated by electrophoretic approach <u>Yuka Kashihara</u> , Masatoshi Kato, Taka-Aki Asoh, Hiroshi Uyama
11:30	3H11	Virus-Based Membranes with Separation Capabilities <u>Toshiki Sawada</u> , Haruhiko Inomata, Takeshi Serizawa
		T. Asoh, presiding
12:30	3H12	Elucidation of mechanism of gold accumulation at the subunit interface of ferritin cage <u>Yuki Hishikawa</u> ,Basudev Maity,Satoshi Abe,Diannan Lu,Takafumi Ueno
12:45	3H13	Disk-like complex formed by cyclic peptide and phospholipid Ryosuke Nagao, Isamu Akiba
13:00	3H14	Solubilization and refolding of aggregated proteins in hydrated ionic liquids <u>Kyoko Fujita</u> ,Roka Nakano,Kimiyoshi Ichida,Nobuhumi Nakamura,Hiroyuki Ohno
		Y. Hoshino, presiding
13:15	3Н15	Energy Transfer and Photocurrent Generation Activity of Biohybrid Light-Harvesting 1-Reaction Center Core Complex (LH1-RC) <u>Genki Kasagi, Masaharu Kondo, Yusuke Yoneda, Hiroshi Miyasaka, Yutaka Nagasawa, Takehisa Dewa</u>
13:30	3Н16	Functional Coupling of Photosynthetic Light Harvesting and Reaction Center Complexes: Quantitative Evaluation by Photocurrent Generation Activity on an Electrode <u>Takehisa Dewa</u> , Hiromi Harada, Genki Kasagi, Masaharu Kondo
13:45	3H17	Effect of structure of polymeric microspheres on molecular separation <a href="Yuichiro Nishizawa">Yuichiro Nishizawa</a> , Ikuma Saito, Takuma Kureha, Daisuke Suzuki
		K. Fujita, presiding
14:00	3H18	Synthesis of Quercetin Polysaccharide and its Micellization Behaviors Yasuhito Koyama, Mahmuda Nargis, Abu Bin Ihsan

14:15	3H19	Hydrogel adhesion by using specific interaction of water-soluble cellulose derivatives <u>Yuki Shioji</u> , Asoh Taka-Aki, Hiroshi Uyama
14:30	3H20	Effect of sugar structure on self-assembly of double-hydrophilic block glycopolymer in water.  Takahiro Oh,Yu Hoshino,Yoshiko Miura

# Room J

# Wed. May 27

# E. POLYMERS AND ENVIRONMENT

# K. Sakurai, presiding

		7.
10:15	1J06ILY	Advanced utilization of biomass with low toxic cellulose solvents Kosuke Kuroda
10:45	1J08	Effect of oxygen on thermal decomposition of polyolefin <u>Tomohiro Ohkawa</u> ,Mikio Hata,Yoshihiro Takai
	•	Γ. Hashimoto, presiding
11:00	1J09	Polystyrene oligomerization with a dormant bond <u>Yukito Urakawa</u> ,Hisayuki Nakatani
11:15	1J10	Oxidation of poly(4-methyl-1-pentene) monolith by chlorine dioxide radical gas Kohei Kikkawa,Yu-I Hsu,Taka-Aki Asoh,Hiroshi Uyama
11:30	1J11	Development of flexible transparent polymers derived from unutilized biomass <u>Shinji Kanehashi</u> ,Kan Kato,Kuis Asato,Syotaro Kariya,Kenji Ogino
	]	K. Kuroda, presiding
12:30	1J12	Biosynthesis and mechanical properties of ultra-high molecular weight PHBV <u>Kotaro Ino</u> ,Shun Sato,Kazunori Ushimaru,Azusa Saika,Tokuma Fukuoka,Tomotake Morita,Koichi Ohshiman
12:45	1J13	Study on utilization of sulfated polysaccharide derived from green tide forming algae Ken-ichi Kanno
13:00	1J14	Preparation of composite of 4-aminocinnamic acid-based water-soluble polyamide and cellulose nano fiber Yasuyoshi Funahashi,Amit Kumar,Kenji Takada,Tatsuo Kaneko
13:15	1J15	Syntheses and evaluation of polyurea based thermo-responsive networks using bio-derived furandiamine. <u>Takuya Kumakura</u> , Amit Kumar, Kenji Takada, Tatsuo Kaneko
	]	K. Takada, presiding
13:30	1J16	Thermal properties of polyurethane foams prepared from liquefied fruit residue Mika Iijima, Tatsuko Hatakeyama, Hyoe Hatakeyama
13:45	1J17	Synthesis of water-insoluble polymer composed of cyclodextrin and functional evaluation <u>Jun Katsuki</u> ,Shota Fujii,Kazuo Sakurai
14:00	1J18	Synthesis of bio-based acrylic resins by the group-transfer polymerization using organic acid catalysts <u>Yasumasa Takenaka</u> ,Motosuke Imada,Hideki Abe
14:15	1J19	Synthesis and Properties of Bio-based Biphenyl Polyesters Composed of

Divanillic Acid and Diols with Cyclic Structure Yunfan Zhang, Yukiko Enomoto, Tadahisa Iwata

# K. Ikenaga, presiding

		3 / 1 3
14:30	1J20	Preparation and characterization of b-1,3-glucan hydrogels with various cross-linker length. <u>Yusuke Matsumoto</u> ,Yukiko Enomoto,Tadahisa Iwata
14:45	1J21	Synthesis and properties of bio-polyesters derived from divanillic acid Yukiko Enomoto, Tadahisa Iwata
15:00	1J22	Synthesis of a-1,3- and b-1,3-glucan esters having C=C bond and its surface modification <u>Yuki Hori</u> ,Yukiko Enomoto,Tadahisa Iwata
15:15	1J23	Molecular weight and substituent control of alpha-1,3-Glucan ester derivatives for the high functional bio-based plastic <a href="Yuya Fukata">Yuya Fukata</a> ,Satoshi Kimura,Tadahisa Iwata
	•	Y. Enomoto, presiding
15:30	1J24	Fully bio-based polymer blend of polyamide 11 and Poly(vinylcatechol) showing thermodynamic miscibility and excellent engineering properties <a href="Maintai,Mamiko">Takayuki Hirai,Mamiko Narita,Taiji Ikawa,Jumpei Kawada,Kotaro Satoh,Masami Kamigaito</a>
15:45	1J25	Re-swelling behavior of alginate/DNA composite hydrogels <u>Takashi Aoki</u> ,Toi HASHIMOTO
16:00	1J26	Synthesis and Properties of Biodegradable Thermoplastic Elastomers from 2-Methyl-1,3-propanediol, Succinic Acid and Lactide Lamya Zahir, Takumitsu Kida, Ryo Tanaka, Yuushou Nakayama, Takeshi Shiono, Norioki Kawasaki, Naoko Yamano, Atsuyoshi Nakayama
16:15	1J27	Solid-state Structure and Thermal Properties of Substituted Poly(lactic acid)s with Alkyl Side Chains <u>Hironori MARUBAYASHI</u> ,Yuji HAMADA,Ryo MIZUKAMI,Shuichi NOJIMA
16:30	1J28	Depolymerization of PLA with alcohol under microwave heating <u>Kazutoshi Ikenaga</u> ,Kohei Higuch

# Thu. May 28

# E. POLYMERS AND ENVIRONMENT

# H. Nakatani, presiding

9:45	2J04	Biodegradation of Polymers with Seawater Blend <u>Atsuyoshi Nakayama</u> ,Norioki Kawasaki,Naoko Yamano,Tsutomu Nakamura
10:00	2J05	Preparations of re-dispersible CNF powder and its composite <u>Tessei KAWANO</u> , Yoshito ANDOU
10:15	2J06	Preparation and polishing characteristics of cellulose nanofiber/cerium dioxide nanocomposites <u>Takuya Matsumoto</u> , Hiroaki Takahashi, Takashi Nishino
10:30	2J07	Preparation of carbon fibers coated with epoxy sizing agents containing degradable acetal linkages and synthesis of carbon fiber-reinforced plastics (CFRPs) for chemical recycling <a href="Tamotsu Hashimoto">Tamotsu Hashimoto</a> , Ryosuke Aoki, Ayaka Yamaguchi, Michio Urushisaki, Toshikazu Sakaguchi

# T. Matsumoto, presiding

10:45 2J08 Investigation of interfacial adhesion of telechelic polypropylenes for carbon fiber-reinforced plastics (CFRPs)

		<u>Tamotsu Hashimoto</u> ,Ayaka Yamaguchi,Hideyuki Uematsu,Michio Urushisaki,Toshikazu Sakaguchi,Atsushi Takamura,Daisuke Sasaki
11:00	2J09	Marine microplastic analysis by high-performance pyrolysis-GC-MS <u>Hajime Ohtani</u> ,Kenji Harata,Risa Nakano
11:15	2J10	Microplastic production mechanism and its collecting method development <u>Hisayuki Nakatani</u> ,Takuma Kyan,Takuya Muraoka
11:30	2J11	Synthesis and characterization of crosslinked resin using hydroxylated Eucommia ulmoides elastomer
		<u>Yu-I Hsu</u> ,Ginga Hoshi,Kinkoh Sho,Nobuaki Suzuki,Yoshihisa Nakazawa,Taka-Aki Asoh,Hiroshi Uyama
	7	Y. Hsu, presiding
12:30	2J12	Facile and Quick Synthesis of Hydrophobic/Hydrophilic Polymer Brushes <u>Tomoya Sato</u> ,Richard Archer,Satoshi Nakamura,Chihiro Urata,Atsushi Hozumi
12:45	2J13	Construction of catalytic asymmetric photoreaction system of anthracene derivatives mediated by human serum albumin
		Misaki Kawai,Sota oyooka,Yuya Fujishiro,Masaki Nishijima,Yasuyuki Aeaki, <u>Takehiko Wada</u>
13:00	2J14	Study of low molecular weight polytetrafluoroethylene suppressed formation of perfluorocarboxylic acid and its salt
		<u>Takayuki Tanaka</u> ,Hideki Nakaya,Ryosuke Senba,Kazuyuki Satoh,Akihiro Oshima
13:15	2J15	Physical degradation caused by shear deformation of polypropylene Keitaro Yamashita,Patchiya Phantong,Sho Hirai,Ryoko Nakano, <u>Shigeru Yao</u>
		E. POLYMERS AND ENVIRONMENT "English Session"
		Γ. Asoh, presiding
13:30	2J16	Adsorption of polycation onto nanosilica prepared from rice husk and application for antibiotic removal
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	2J16	Adsorption of polycation onto nanosilica prepared from rice husk and application for antibiotic removal  Thu Thao Pham, Tien Duc Pham, Thu Thuy Bui, Shin-ichi Yusa  Amino Acid-Derived Ecopolymers for Sustainability and Protein Therapeutics  Hua Lu  Photooxidation and stabilization of a bio-derived polyimide
13:45	2J16 2J17ILI 2J19	Adsorption of polycation onto nanosilica prepared from rice husk and application for antibiotic removal  Thu Thao Pham, Tien Duc Pham, Thu Thuy Bui, Shin-ichi Yusa  Amino Acid-Derived Ecopolymers for Sustainability and Protein Therapeutics  Hua Lu  Photooxidation and stabilization of a bio-derived polyimide  Anh Thi Minh Mai, Thanh Nhat Nguyen, Tatsuo Kaneko, Toshiaki Taniike
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13:45 14:15 14:30 14:45 15:00	2J16  2J17ILI  2J19  2J20  2J21  2J22	Adsorption of polycation onto nanosilica prepared from rice husk and application for antibiotic removal  Thu Thao Pham, Tien Duc Pham, Thu Thuy Bui, Shin-ichi Yusa  Amino Acid-Derived Ecopolymers for Sustainability and Protein Therapeutics  Hua Lu  Photooxidation and stabilization of a bio-derived polyimide  Anh Thi Minh Mai, Thanh Nhat Nguyen, Tatsuo Kaneko, Toshiaki Taniike  D. Karthaus, presiding  Citric acid modified-cellulose reinforced the PP resin as fillers  Xinnan Cui, Toshiki Honda, Taka-Aki Asoh, Hiroshi Uyama  Photoautotrophic growth and production of spider silk using marine purple non-sulfur bacterium  Choon Pin Foong, Keiji Numata  Synthesis of Polyurethane with Cellulose Acetate (L-30)  Safarul Bin Mustapha, Yoshito Andou  Y. Andou, presiding  Degradation of Polyethylene Using a Cross Alkane Metathesis Strategy

# Fri. May 29

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

		H. Shimomoto, presiding
9:30	3J03	Synthesis, structure control and cross-linking reaction of optically active acetylene copolymers substituted with benzoxazine moieties <a href="Masahide Goto"><u>Masahide Goto</u></a> , Masaki Minami, Fumio Sanda
9:45	3J04	Air-Tolerant Poly(3-hexylthiophene) Synthesis via Catalyst-Transfer Polymerization <u>Tomohiro Kubo</u> ,Anne McNeil
10:00	3J05	Synthesis of Novel Group 16 Element-containing p-Conjugated Polymers by Three-component Coupling Polymerization Rundong Gong, Hiroki Nishiyama, Shinsuke Inagi, Ikuyoshi Tomita
10:15	3J06	Ring-opening Anionic Polymerization of Epoxy Monomer in the Presence of Alkylaluminum <u>Motoyasu Kobayashi</u> ,Chisako Kurosu,Kazuo Yamaguchi
		M. Kobayashi, presiding
10:30	3J07	Anionic polymerization of 1-(4-vinylphenyl)-1-phenylethylene <u>Hamin Kim</u> ,Raita Goseki,Takashi Ishizone
10:45	3J08	Remarkable effect of a tripodal triptycene additive on the self-assembling properties of narrow-distribution PDMS terminated with triptycene groups <u>YUGEN CHEN</u> ,FUMITAKA ISHIWARI,KEITA FUCHISE,TAKASHI KAJITANI,TAKANORI FUKUSHIMA
11:00	3J09	Synthesis and structure control of platinum-containing conjugated polymers bearing optically active bipyridine ligands <u>Taichi Sotani</u> , Yousuke Fujiwara, Ken Motohara, Fumio Sanda
11:15	3J10	Synthesis and properties of bifacial polyindenofluorenes with various substituents <u>Yalun Yin</u> , Fumitaka Ishiwari, Takanori Fukushima
11:30	3J11	Nanoporous Nitrogen-doped Carbon Synthesis from Triazine-based Covalent Organic Frameworks <u>Tomohiro Shiraki</u> ,Gayoung Kim,Tsuyohiko Fujigaya
		T. Shiraki, presiding
12:30	3J12	Mechanistic Studies on the Cobalt-Catalyzed Copolymerization of Ethylene and Methyl Acrylate Jin Jung, <u>Kyoko Nozaki</u>
12:45	3J13	Nano-dispersed Ziegler-Natta catalyst for microfine ultra-high molecular weight polyethylene Patchanee Chammingkwan,Yusuke Bando,Minoru Terano,Toshiaki Taniike
13:00	3J14	Helical fullerene polymers accessed via molecular recognition <u>Takehiro Hirao</u> , Yoshiki Iwabe, Takeharu Haino
13:15	3J15	Stereochemically Alternating Supramolecular Copolymerization of Thiophene-Fused Chiral [4n]Annulenes and Their Photofunctions

<u>Tsubasa Aoki</u>, Michihisa Ueda, Yoshimitsu Itoh, Takuzo Aida

# Room K

# Wed. May 27

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

		S. Koizumi, presiding
10:00	1K05	Structure and properties of polyimide nanocomposite reinforced with chemically modified nanodiamond <u>Seira Morimune-Moriya</u> , Keiya Obara
10:15	1K06	Fabrication and Characterization of Polypropylene Composites Reinforced with Chemically modified Nanodiamond Ryohei Haga, Hiroaki Tanahashi, Taiki Hashimoto, Seira Moriya-Morimune
10:30	1K07	Characterization of Polyethylene / Nanodiamond Nanocomposite. <u>Taiki Hashimoto</u> , Hiroaki Tanahashi, Ryohei Haga, Seira Moriya-Morimune
10:45	1K08	Dynamics in Block Copolymer-Grafted Silica Particles under Mechanical Deformation <u>ChaoHung Cheng</u> ,Kiyu Uno,Nattanee Dechnarong,Shiori Masuda,Kazutaka Kamitani,Taiki Hoshino,Ken Kojio,Atsushi Takahara
		K. Kojio, presiding
11:00	1K09	Elucidation of crosslinks by dynamic nuclear polarization & neutron contrast variation method 1 <u>Satoshi Koizumi</u> ,Yohei Noda,Tomoki Maeda,Akemi Masui,Hiromichi Kishimoto
11:15	1K10	Elucidation of crosslinks by dynamic nuclear polarization & neutron contrast variation method 2 Yohei Noda, <u>Satoshi Koizumi</u> , Tomomi Masui, Hiromichi Kishimoto, Tomoki Maeda
11:30	1K11	Analysis of the spatial distribution of sulfur and zinc in vulcanized rubber by µ-XRF mapping Yohei Nakanishi, Kazuki Mita, Kentaro Yamamoto, Kotaro Ichino, Mikihito Takenaka
		H. Yamaguchi, presiding
12:30	1K12	Characterization of water molecule dynamics in к-carrageenan hydrogel using terahertz spectroscopy Koji Furuno,Shu Sato,Yui Tsuji,Xiang Li,Mitsuhiro Shibayama, <u>Toshiaki Hattori</u>
12:45	1K13	Swelling behaviors of polyelectrolyte gel based with high charge density <u>Jian Tang</u> ,Xiang Li,Mitsukami Yoshiro,Yuki Yokoyama,Takuya Katashima,Mitsuhiro Shibayama,Takamasa Sakai
13:00	1K14	Control of the flow temperature of poly(lactic acid) gel by changing the crystalline structure <u>Yasuhiro Matsuda</u> , Takahiro Fukui, Hiroki Ashizawa, Kazuaki Miyamoto, Akinobu Fukatsu, Atsushi Takahara, Shigeru Tasaka
13:15	1K15	Ion gel formed by phase separation of ABA-type block copolymer induced by ionic liquid <u>Kei Hashimoto</u> ,Manabu Hirasawa,Hisashi Kokubo,Watanabe Masayoshi
		Y. Matsuda, presiding
13:30	1K16	Structure analysis of gels with deliberately introduced spatial inhomogeneities <u>Yui Tsuji</u> ,Xiang Li,Shintaro Nakagawa,Mitsuhiro Shibayama
13:45	1K17	Structural Analysis of Hydrogel Microspheres by Light Scattering and High- Speed AFM <u>Yuichiro Nishizawa</u> ,Shusuke Matsui,Kenji Urayama,Takuma Kureha,Mitsuhiro

		Shibayama, Takayuki Uchihashi, Suzuki Daisuke
14:00	11/10111	
14:00	IKIOILI	Development of Functional Hydrogels by Tuning Internal Structures <u>Younsoo Kim</u>
14:30	1K20	Bio-Inspired Memory-Forgetting Hydrogels Based on Thermal-Induced Transient Structure Formation Chengtao Yu, Kunpeng Cui, Honglei Guo, Xueyu Li, Ya Nan Ye, Jian Ping Gong
	,	r. Hoshino, presiding
14:45	1K21	Structural analysis of spatially homogeneous gel synthesized via bond
11.10	11121	percolation <u>Xiang Li, Shintaro Nakagawa, Yui Tsuji, Mitsuhiro Shibayama</u>
15:00	1K22	Research on hierarchical structure of rubber using anomalous scattering near K
		absorption edge of zinc <u>Yuki Watanabe</u> ,Mikihito Takenaka,Shotaro Nishitsuji
15:15	1K23	Design and evaluation of mechanical properties of dissimilar polymer mixed
		materials with mobile crosslinking <u>Ryohei Ikura</u> ,Shunsuke Murayama,Junsu Park,Motofimi Osaki,Hiroyasu Yamaguchi,Akira Harada,Yuka Ikemoto,Go Matsuba,Yoshinori Takashima
15:30	1K24	Mirror radius-fracture stress relationship for the brittle fracture of hydrogel Ryuji Kiyama, Takayuki Nonoyama, Daniel King, Jian Ping Gong
	•	Γ. Hattori, presiding
15:45	1K25	Near ideal physical gel cross-linked via double-strand DNA <u>Masashi Ohira</u> ,Xiang Li,Mitsuru Naito,Mitsuhiro Shibayama
16:00	1K26	Dynamical study of epoxy resin in the thermoset process using X-ray photon
		correlation spectroscopy <u>Taiki Hoshino,</u> Yasushi Okamoto,Atsushi Yamamoto,Hiroyasu Masunaga
16:15	1K27	Synthesis and property of elastomers with nearly ideal network structure Xin Huang, Shintaro Nakagawa, Naoko Yoshie
16:30	1K28	Structural Effect of Diamine Isomer on Curing Process for Epoxy Resin Keunwon Song, Satoru Yamamoto, Keiji Tanaka
Thu. N	Iay 28	
	B. POLY	MER PHYSICS: STRUCTURE AND PROPERTIES "English Session"
	\$	S. Okazaki, presiding
9:30	2K03	Dynamics of bound water in nylon-6 films studied by terahertz spectroscopy <u>Hiromichi Hoshina</u> ,Takuro Kanemura,Michael Ruggiero
9:45	2K04	Terahertz Spectroscopy for Characterization of Hydrogen Bonding and Cross-
		Linked Structure Dynamics in Polyurethane <u>Hiromichi Hoshina</u> ,Saito Yuichi,Furuhashi Takumi,Tomomi Shimazaki,Manabu Sawada,Yasunori Hioki,Chiko Otani
10:00	2K05	Glass Transition Behaviors of Hydrogen Bonding Polymer Blends <u>Osamu Urakawa</u> ,Tadashi Inoue
		O. Urakawa, presiding
10:15	2K06	Molecular mechanism of toughening of PMMA through compressive rolling studied by molecular dynamics calculation <u>Hiroaki Ishikawa</u> , Kazushi Fujimoto, Tang Zhiye, Susumu Okazaki
10:30	2K07	All-atom Molecular Dynamics Study of Impact Fracture of Glassy Polymers: About the Yielding Phenomenon in a Microscopic View Zhiye Tang, Kazushi Fujimoto, Susumu Okazaki

10:45	2K08	Physical ageing response of a glassy polymer and the relaxation model including the stretching process <u>Yutaka Tanaka</u> , Daisuke Tsuda
	1	M. Tanaka, presiding
11:00	2K09ILI	Probing nanochemical domains of dry powder inhalers using atomic force microscopy infrared spectroscopy (AFM-IR) <u>Dipesh Khanal</u>
11:30	2K11	Solid-state DNP-NMR spectroscopy for insoluble polyolefins <u>Shinji Tanaka</u> ,Atsuko Ogawa,Yumiko Nakajima,Kazuhiko Sato
		S. Sakurai, presiding
12:30	2K12	Swelling effects of liquid paraffin on dynamic mechanical properties in HDPE <u>Asae Ito</u> ,Kaori Hioki,Koichi Kono,Yusuke Hiejima,Koh-hei Nitta
12:45	2K13	Changes in hierarchical structures of polyethylene under uniaxial stretch <u>Mizuki Kishimoto</u> ,Kazuki Mita,Mikihito Takenaka
13:00	2K14	A Molecular Dynamics Study on Structural Change of Polyethylene by Beta Decay of Substituted-tritium using Reactive Force Field Haolun Li, Susumu Fujiwara, Tomoko Mizuguchi, Hiroaki Nakamura, Takuo Yasunaga, Ayako Nakata, Tsuyoshi Miyazaki, Takao Otsuka, Takahiro Kenmotsu, Yuji Hatano, Shinji Saito
	]	M. Takenaka, presiding
13:15	2K15	Effect of uncrystallizable 3-hydroxyhexanoate content on early-stage crystallization behavior from the melt of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) <u>Toan Nguyen Van</u> , Hiroyasu Masunaga, Taiki Hoshino, Shinichi Sakurai, Sono SASAKI
13:30	2K16	Confined Crystallization of Poly(ethylene glycol) in a Poly(L-lactic acid) Spherulite in the PLLA/PEG (50/50) Blend Specimen <u>Apisit Banpean</u> ,Shinichi Sakurai
13:45	2K17	In Situ Synchrotron Radiation X-ray Scattering Study on Microphase-separated Structure of Thermoplastic Elastomer under Various Deformation Modes Nattanee Dechnarong, Kazutaka Kamitani, Chao-Hung Cheng, Shiori Masuda, Shuhei Nozaki, Chigusa Nagano, Yoshifumi Amamoto, Ken Kojio, Atsushi Takahara
14:00	2K18	Thermal Molecular Motion of Poly(methyl methacrylate) in a Nanofiber Mat <u>Hisao Matsuno</u> ,Ryo Matsumoto,Masayasu Totani,Keiji Tanaka
	]	H. Matsuno, presiding
14:15	2K19	Inclusion process of terminal-alkylated polyethylene glycol and cyclodextrin <u>Shun Kitawaki</u> ,Norifumi Yamada,Kohzo Ito,Hideaki Yokoyama
14:30	2K20	Formation of ordered surface morphology by solvent-mediated crystallization of polymer brushes <a href="Shintaro Nakagawa">Shintaro Nakagawa</a> , Naoko Yoshie
14:45	2K21	Melting and recrystallization of poly(trimethylene terephthalate) <u>Daisuke Tadokoro</u> , Takashi Konishi, Koji Fukao, Teppei Yoshida, Yoshihisa  Miyamoyo
15:00	2K22	Estimation of higher order structure of model polymer using persistent homology and machine learning Yohei Shimizu, Takanori Kurokawa, Hirokazu Arai, Hitoshi Washizu
	•	Γ. Konishi, presiding
15:15	2K23	Particle Aggregation and Flow Behavior of Electro-Rheological Nano- Suspensions <u>Katsufumi Tanaka</u> ,Y Yamamura,H Masumoto,Y Maenaka,M Takasaki,H

		Kobayashi
15:30	2K24	Rheology of Models of Cytoplasm with Metabolic Activity <u>Yujiro Sugino</u> ,Kohei Fukumoto,Kazuaki Mitani,Kenji Nishizawa,Tatsuro Takahashi,Daisuke Mizuno
15:45	2K25	Entropy-Driven Segregation of Specific Molecules in an Epoxy-Amine System at a Solid Interface <u>Satoru Yamamoto</u> ,Keiji Tanaka
16:00	2K26	Tracking the aggregation number change in the platonic micelles using ultracentrifugation Naoto Moriyama, Eri Tabata, Shota Fujii, Isamu Akiba, Kazuo Sakurai
Fri. M	av 29	
	•	MER PHYSICS: STRUCTURE AND PROPERTIES "English Session"
		T Sagabi progiding
		T. Sasaki, presiding
9:30	3K03	Mechanical Properties of Styrenic Triblock Copolymer Ultra-Thin Films <u>Masayuki Saito</u> ,Kohzo Ito,Hideaki Yokoyama
9:45	3K04	Gel Network Amplification for Evaluation of Tertiary Solvents Adsorption at Solid Interfaces Sora Kimura,Shunsei Abe, <u>Masahito Sano</u>
10:00	3K05	Local Chain Conformation of Poly(2-ethyl cyanoacrylate) Chains at Alumina Interface
		<u>Daisuke Kawaguchi</u> ,Daiki Saito,Keiji Tanaka
		M. Sano, presiding
10:15	3K06	Adsorption of poly(9-anthracenyl methyl methacrylate) onto inorganic surfaces <u>Mina Ishihara</u> ,Yurina Yamaguchi,Yusuke Sumi,Takashi Sasaki
10:30	3K07	Structural Evaluation of Concentrated Polymer Brushes of Poly(methyl methacrylate) Using Surface Forces Measurement <a href="Yutaka Takahashi">Yutaka Takahashi</a> , Masashi Mizukami, Yoshinobu Tsujii, Kazue Kurihara
10:45	3K08	Surface structure of polymer electrolyte membrane -Observation by grazing incidence X ray scattering- Satoshi Koizumi, Kouki Shishido, Tomoki Maeda
11:00	3K09	Dynamics of Chains in a Hydrogel Film at Water Interface <u>Atsuomi Shundo</u> ,Nozomi Itagaki,Daisuke Kawaguchi,Keiji Tanaka
		T. Nonoyama, presiding
11:15	3K10	Self-Assembly of Poly(3-hexylthiophene) on Graphite Surface Studied by In-Situ Scanning Tunneling Microscopy <u>Daisuke Takajo</u> , Hiroyasu Katsuno, Koichi Sudoh
11:30	3K11	The relationship between structure of microemulsions, entrapment amount of resveratrol, and skin permeation <u>Mina Sakuragi</u> , Hana Yoshimura, Reina Yano, Katsuki Kusakabe
		H. Mitomo, presiding
12:30	3K12	Solvent Dependence of Platonic Structures of Resorcinarene assemblies and their catalytic activity <a href="mailto:Shota Fujii">Shota Fujii</a> , Kazuo Sakurai
12:45	3K13	Selective absorption of alkanes by pores in the crystal of polymer P4MP1 and its causes <a href="Ayano Chiba">Ayano Chiba</a> , Akio Oshima, Ryo Akiyama

Enhanced Dispersion Stability of Gold Nanoparticles by Cyclic Poly(Ethylene

13:00 3K14

		Glycol) <u>Yubo Wang</u> ,Takuya Yamamoto
13:15	3K15	Preparation and Assembly of Ellipsoidal Microgels <u>Kenshiro Honda</u> ,Yuka Sazuka,Kojiro Iizuka,Shusuke Matsui,Takayuki Uchihashi,Takuma Kureha,Mitsuhiro Shibayama,Takumi Watanabe,Daisuke Suzuki
		M. Sakuragi, presiding
13:30	3K16	Fabrication of highly oriented ultra-thin film of polymeric semiconductor by utilizing ultra high temperature LB method <u>Masato Ito</u> ,Yu Ymashita,Taizo Mori,Shun Watanabe,Jun Takeya,Katsuhiko Ariga
13:45	3K17	A new type polymer cracking mechanism for full color printing <u>Masateru Ito</u> ,Easan Sivaniah,Gibbons Andrew,Detao Qin
14:00	3K18	Thermo-responsive assembly of gold nanoparticles depending on oligo(ethylene glycol) density at their surface <u>Hideyuki Mitomo</u> , Yier Shi, Yusuke Yonamine, Kuniharu Ijiro
14:15	3K19	Formation Mechanism of Pseudo-polyrotaxane Nanosheet <u>Shuntaro Uenuma</u> ,Rina Maeda,Hideaki Yokoyama,Kohzo Ito

# Room L

# Wed. May 27

### C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

### K. Ueno, presiding 10:00 1L05 Synthesis and applications of nanocomposite hydrogel microspheres Takumi Watanabe, Tetsuya Noguchi, Daisuke Suzuki Evaluation of Lowering of Shortening Temperature of Gold Nanorods by RAFT 10:15 1L06 Polymer Modification. Tatsuya Fujiwara, Yukiko Nagai, Tsuyohiko Fujigaya Silk Protein Fabricated with Metallic Nanoparticles for a Multifunctional Drug 10:30 1L07 Delivery System Anh T.N. DAO, Motofumi NAKAMURA, Farsai TAEMAITREE, Hitoshi KASAI Submarine Emission under Control by Molecular Manipulation of Double-10:45 1L08 Paddled Binuclear Pt(II) Complexes at Air-Water Interface Taizo Mori, Junya Adachi, Ryo Inoue, Souichiro Kawamorita, Takeshi Naota,Katsuhiko Ariga T. Mori, presiding 11:00 1L09 Preparation of a Polythiophene Luminescent Film Based on the Polymer Composite System Tsukuru Minamiki,Ryosuke Esaka,Ryoji Kurita Crystallization behavior of polypropylene induced by amphiphilic Janus 11:15 1L10 nanocellulose as a scaffold Masato Kamogawa, Shingo Yokota, Tetsuo Kondo 11:30 1L11 Synthesis of single walled carbon nanotubes modified with functional peptides

Simon Sau Yin Law, Yukiko Nagai, Naoki Tanaka, Kousuke Tsuchiya, Tsuyohiko

for gene delivery into plant cells

Fujigaya,Keiji Numata

# D. King, presiding

		- ·8, F- · · · · · · · · · · · · · · · · · ·
12:30	1L12	Preparation of mixed electronic/ionic conducting gels using a liquid metal and an ionic liquid <u>Juri ASADA</u> ,Aya SARUWATARI,Ryota TAMATE,Hiroki OTA,Kazuhide
		UENO, Masayoshi WATANABE
12:45	1L13	Effect of self-assembly of block copolymers in ionic liquid on properties of ion
		gel <u>Haruna Mizuno,</u> Kei Hashimoto,Hisashi Kokubo,Kazuhide Ueno,Masayoshi Watanabe
13:00	1L14	Synthesis of a thermoresponsive gel by using a strong cationic radical initiator <u>Tsukuru Masuda</u> , Toshikazu Tsuji, Hideki Koizumi, Madoka Takai
		T. Fujigaya, presiding
13:15	1L15	Double Network Hydrogels based on Semi-Rigid Polyelectrolyte Physical Networks <u>Daniel Rudolf King</u> , Takuma Ikai, Riku Takahashi, Kazuki Fukao, Takayuki
12.20	11.16	Kurokawa, Jian Ping Gong
13:30	1L16	Control of spatiotemporal behavior of self-oscillating gel by introducing comb- type and gradient structures
		Won Seok Lee, Takafumi Enomoto, Aya Mizutani Akimoto, Ryo Yoshida
13:45	1L17	Adjacent cationic-aromatic sequences yield strong electrostatic adhesion of hydrogels in seawater <u>Hailong Fan</u> , Jian Ping Gong
14:00	1L18	Heterobimetallic metallo-supramolecular polymer for multicolor
		electrochromism <u>Manas Kumar BERA</u> ,Masayoshi HIGUCHI
		S. Watanabe, presiding
14:15	1L19	Vivid colored electrochromism of metallo-supramolecular polymers <u>Dines SANTRA</u> ,Utpal RANA,Masayoshi HIGUCHI
14:30	1L20	Synthesis of 4-armed porphyrin-containing polymer exhibiting sol-gel phase transition by metal ions and their applications as cell culturing scaffolds Akifumi Kawamura, Ayaka Ide, Takashi Miyata
14:45	1L21	Stimuli-responsive Polymer Micelles with Reactive Zwitterionic Polymer Core <u>Akifumi Kawamura</u> , Cristiam F Santa Chalarca, Todd Emrick
15:00	1L22	Preparation of Thermo-responsive Random Copolymers Composed of 2-Vinylpyridine (2VP) and Sodium p-Styrenesulfonate (NaSS) <a href="Masker-Name=" mask<="" masker-name="Masker-Name=" td=""></a>
		A. Kawamura, presiding
15:15	1L23	Visualization and quantification of compression stress using composite substrate of layered polydiacetylene and dry liquid Minami Nakamitsu, Keigo Oyama, Hiroaki Imai, Shuji Fujii, Yuya Oaki
15:30	1L24	Robust Phase Separation-induced Rubbery-to-Glassy Transition at Elevating Temperature <u>Takayuki Nonoyama</u> ,YongWoo Lee,Kumi Ota,Keigo Fujioka,Jian Ping Gong
15:45	1L25	Development of Water Treatment Membranes Based on Nanostructured Polymerized Liquid Crystals <u>Takeshi Sakamoto</u> , Yusuke Hayashi, Kazuma Hamaguchi, Daniel Kuo, Shotaro Torii, Takafumi Ogawa, Masahiro Henmi, Masahiro Kimura, Hiroyuki Katayama, Takashi Kato
16:00	1L26	Near-infrared two wavelength control of Marangoni propulsion of soft boat based on photothermal conversion of rare-earth nanoparticles <u>Kazuki Arikawa</u> ,Satoshi Watanabe,Syuji Fujii,Masashi Kunitake

# Thu. May 28

# C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

	•	Γ. Okamoto, presiding
9:30	2L03	Facile Hydrogen fixation and Release by Poly(vinyldimethylquinoxaline) Gel <u>Yusuke Kaiwa,</u> Kouki Oka,Kenichi Oyaizu
9:45	2L04	Effect of ion pair structure with varying ion pair interaction energies on high dielectric constant aiming for low-voltage driving dielectric elastomer <a href="Ryosuke Matsuno">Ryosuke Matsuno</a> , Yota Kokubo, Shinji Kumagai, Shigeaki Takamatsu, Atsushi Takahara
10:00	2L05	Synthesis of zwitterion/oligoether diblock copolymers and evaluation as Li-ion conductors <u>Masahiro Fujita</u> ,Jun Ishii,Yuko Takeoka,Masahiro Rikukawa
	1	R. Matsuno, presiding
10:15	2L06	Influence of regioregularity and side chain of Poly(3-thioalkylthiophene) (P3ST)-based Polymer Semiconductor for Organic Field Effect Transistors Poshen Lin, Chengliang Liu, Mingchou Chen, Tomoya Higashihara, Yamato Shoji
10:30	2L07	Synthesis of conductive polythiophene derivative with high stability under ambient condition and its electric conductivity <u>Tadanori Kurosawa</u> ,Daiji Ikeda,Yu Yamashita,Shunichiro Watanabe,Toshihiro Okamoto,Junichi Takeya
10:45	2L08ILI	Conjugated polymers and molecular machines for optoelectronic applications Masaki Horie
		OPOLYMERS AND BIORELATED POLYMERS "English Session"  K. Numata, presiding
12:30	2L12ILI	Greener and Tougher Composites from Natural Silks <u>Juan Guan</u>
13:00	2L14	Lipid-raft-targeted Molecular Self-assembly Inactivates YAP to Treat Ovarian Cancer Guanying Li,Xunwu Hu, <u>Ye Zhang</u>
	7	Y. Ikeda, presiding
13:15	2L15ILI	Natural Rubber : An Indispensable Material for Sustainable Society in the 21st Century <u>Preeyanuch Junkong</u>
	]	K. Sakurai, presiding
13:45	2L17	Cationic amphiphilic polymer development for efficient gene editing via Cas9 mRNA local delivery <u>HyunJin Kim</u> ,Satomi Ogura,JongMin Yum,Mitsuru Naito,Kanjiro Miyata
14:00	2L18	Targeting hypersialyated B16 melanoma using a phenylboronic acid-installed polymeric nanoparticle towards a novel BNCT agent Ahram Kim, Minoru Suzuki, Yoshitaka Matsumoto, Nobuyoshi Fukumitsu, Yukio Nagasaki
14:15	2L19	Design and Synthesis of Antioxidant Nanomedicine to Combat Oxidative Stress Related Diseases  Polita Shashni, Junya Tamaski Makata Kabayashi Vulsia Nagasaki

<u>Babita Shashni</u>,Junya Tamaoki,Makoto Kobayashi,Yukio Nagasaki

# Y. Nagasaki, presiding

14:30	2L20ILI	Development of self-assembling polymeric nano-drugs for therapeutic applications <u>Binh Long Vong</u> , Yukio Nagasaki
15:00	2L22	Bioactivity of cyclodextrin-based polymer nanoparticles encapsulating alpha mangostin <u>Van Doan</u> ,Shota Fujii,Kazuo Sakurai
15:15	2L23	Regulate Microtubule Dynamics via Intracellular Trafficking of pH-responsive Self-assembly through Endocytic Pathway for Cancer Treatment Guanying Li,Xia Wu, <u>Ye Zhang</u>
Fri. May 29  D. BIOPOLYMERS AND BIORELATED POLYMERS "English Session"		

		G. Chen, presiding
9:30	3L03	Aptamer Based Label-free Thrombin Detection Based on Gold Nanoparticles Incorporated with Polyaniline Nanostructure <u>Rodtichoti Wannapob</u> , Surachada Chuaychob, Masahiro Fujita, Mizuo Maeda
9:45	3L04	Bioinspired design of stable siRNA-loaded polyion complex micelles from strong Tryptophan/Tyrosine-RNA interactions for siRNA delivery Wenqian Yang, Takuya Miyazaki, Yasuhiro Nakagawa, Satoshi Uchida, Kazunori Kataoka, Horacio Cabral
10:00	3L05	Peptide nanotube end-sealed by cationic peptide amphiphile and salt-responsive transformation Kon Son, Motoki Ueda, Shinji Takeoka, Yoshihiro Ito
10:15	3L06	High-resolution observation of the mechanical deformation of microtubules and its effect on the motor protein motility <u>Syeda Rubaiya Nasrin</u> , Christian Ganser, Seiji Nishikawa, Kazuki Sada, Takayuki Uchihashi, Henry Hess, Akira Kakugo
		A. Mahara, presiding
10:30	3L07	Biomimetic assembly of spider silk via liquid-liquid phase separation <u>Ali Malay</u> ,Keiji Numata
10:45	3L08	Supermolecule-based surfaces with intermediate mobility promote myocyte differentiation <u>Ruriko Sekiya</u> , Yoshiori Arisaka, Nobuhiko Yui
11:00	3L09	Influence of Viscosity of Gelatin Solution Embedded in Hydrogels on Differentiation of Mesenchymal Stem Cells <u>Guoping Chen</u> ,Kyubae Lee,Naoki Kawazoe

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

# H. Yokoyama, presiding 12:30 3L12 Development of polymer blend miscibility estimation method combining allatom molecular dynamics simulation and free-energy calculation Kazuo Yamada, Nobuyuki Matubayasi 12:45 3L13 Chemical Knowledge Base Extracted from Chemical Literatures Noriko Ikeda, Hiroaki Yoshida, Junichi Shigezumi, Kazunari Tanaka, Nobuyuki Katae, Hikaru Yokono K. Terao, presiding 13:00 3L14 Effect of Molecular Structure on Hydration Behavior of Poly(ethylene glycol) in

		Aqueous Solution <u>Takeshi Fujiyabu,</u> Kengo Arai,Takuya Katashima,Ung-il Chung,Toshiyuki Shikata,Takamasa Sakai
13:15	3L15	Molecular Modeling of Self-Organized Ionic Liquid Crystals: Nanochannel and the Hydration Properties <u>Yoshiki Ishii</u> ,Go Watanabe,Nobuyuki Matubayasi,Takashi Kato,Hitoshi Washizu
13:30	3L16	Direct observation of the water molecues bound to biocompatible polymers by use of dilection relaxation <u>Takuma Kanamaru</u> ,Rintaro Takahashi,Toshiyuki Shikata,Daiki  Murakami,Masaru Tanaka,Kazuo Sakurai
		I. Akiba, presiding
13:45	3L17	Multilamellar vesicles formation through polymerization-induced self-assembly in dilute solution: in situ observation of the formation kinetics <u>Rintaro Takahashi</u> ,Fabian Sobotta,Brendel Johannes,Kazuo Sakurai
14:00	3L18	Micellization of Hydrophobically Modified Pullulan by Octenyl Succinic Anhydride in Aqueous Media <u>Jia Yang</u> ,Takahiro Sato
14:15	3L19	Complex formation of collagen and silica nanoparticles in aqueous solution at different temperatures Ken Terao, Mari Otsubo, Masahiro Abe

# Room M

# Wed. May 27

# C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

# K. Oyaizu, presiding

10:30	1M07	Amorphous network polymers containing heteroaromatic rings and quinone moieties and their application to electrocatalyst for hydrogen evolution reaction <a href="https://dx.doi.org/nc.nc/4">Akira Ishizone, Hiroaki Imai, Yuya Oaki</a>
10:45	1M08	Efficient exploration of organic anode materials for lithium-ion battery by experiment-oriented materials informatics <u>Takumi Komura</u> , Yasuhiko Igarashi, Hiromichi Numazawa, Hiroaki Imai, Yuya Oaki
		M. Higuchi, presiding
11:00	1M09	Redox mediation-assisted fast charge/discharge by fluoflavin polymer/lithium iron phosphate hybrid cathodes <a href="Mainto:Kan Hatakeyama">Kan Hatakeyama</a> , Choitsu Go, Takahiro Kaseyama, Takuji Yoshimoto, Kenichi Oyaizu
11:15	1M10	Polyelectrolyte Membrane with Controlled Mass-transfer Process of Polysulfide Ions for Lithium-sulfur Batteries <u>Kenichi Oyaizu</u> ,Satoshi Kimura,Koji Matsuoka,Tomomi Nagatsuka
11:30	1M11	In plane micro-supercapacitor based on carbon-copper hybrid electrode prepared by laser direct writing <a href="Microscoper-Akira Watanabe">Akira Watanabe</a> , Tomoko Kozono, Toru Yumoto
		J. Matsui, presiding
12:30	1M12	Low-cost non-precious metal-based carbon nanotube hybrid battery design Jin Nishida,Jyunko Matsuda, <u>Naotoshi Nakashima</u>

12:45	1M13	Preparation of Li-S polymer battery utilizing CNT dispersibility in highly concentrated lithium electrolytes <u>Ryo Motoyoshi</u> , Shanglin Li, Jaili Liu, Aya Saruwatari, Kei Hashimoto, Kazuhide Ueno, Masayoshi Watanabe
13:00	1M14	Ni(II)-Based Metallo-supramolecular Polymer and Imidazole System for Anhydrous Proton Conduction Application Narayana Yamineni, Masayoshi Higuchi
		K. Hatakeyama, presiding
13:15	1M15	High Gain Visible Light Photocatalyst prepared from Active Organic Photovoltaic Cell
		<u>Keiji Nagai</u> ,Takayuki Kuwabara,Mohd Fairus Ahmad,Masahiro Nakano,Makoto Karakawa,Tetsuya Taima,Kohshin Takahashi
13:30	1M16	Open-Circuit Voltage Loss in Nonfullerene-Based Ternary Blend Polymer Solar Cells <u>Hyung Do Kim</u> ,Shohei Hosoya,Masahiko Saito,Itaru Osaka,Hideo Ohkita
13:45	1M17	Ultrasonic Spray-Assisted Method via Vacuum-extraction Technique for All-
13.43	110117	inorganic CsPbI2Br Perovskite Solar Cells under Ambient Condition. <u>Yu-Dien Yu, Cheng-Liang Liu</u>
		M. Nishihara, presiding
14:15	1M19	High proton conductivity and organized structure of semi-alicyclic sulfonated polyimide thin film with a lyotropic liquid crystalline property <u>Yuze Yao, Hayato Watanabe, Mitsuo Hara, Jun Matusi, Shusaku Nagano, Yuki Nagao</u>
14:30	1M20	Effect of cation size on the ion conduction properties for polyether-based electrolyte with cyanoethoxy sidechain <a href="Soichiro Yamanaka">Soichiro Yamanaka</a> , Riho Matuoka, Ryansu Sai, Yu Katayama, Hiromori Tutumi
		A Windowski a most than
		A. Watanabe, presiding
14:45	1M21	Steric effects of sidechains on the ion transport properties of polyether-based electrolytes
		Steric effects of sidechains on the ion transport properties of polyether-based electrolytes <u>Kousuke Matsuo</u> ,Shohei Yuasa,Ryansu Sai,Yu Katayama,Hiromori Tsutsumi
14:45 15:00	1M21 1M22	Steric effects of sidechains on the ion transport properties of polyether-based electrolytes
		Steric effects of sidechains on the ion transport properties of polyether-based electrolytes <u>Kousuke Matsuo</u> ,Shohei Yuasa,Ryansu Sai,Yu Katayama,Hiromori Tsutsumi <u>Effect of TiO2 particles on ion conduction mechanism in polyether-based electrolyte containing cyano group  <u>Tasuku Hitaka</u>,Ryutaro Isobe,Koki Yamada,Ryansu Sai,Yu Katayama,Hiromori</u>
15:00	1M22	Steric effects of sidechains on the ion transport properties of polyether-based electrolytes <u>Kousuke Matsuo</u> ,Shohei Yuasa,Ryansu Sai,Yu Katayama,Hiromori Tsutsumi  Effect of TiO2 particles on ion conduction mechanism in polyether-based electrolyte containing cyano group <u>Tasuku Hitaka</u> ,Ryutaro Isobe,Koki Yamada,Ryansu Sai,Yu Katayama,Hiromori Tsutsumi  Evaluation of SPI/Si-Epoxy CT blend membrane for PEFC application <u>Byungchan Hwang</u> ,Masamichi Nishihara,Kazunari Sasaki,Akari
15:00	1M22	Steric effects of sidechains on the ion transport properties of polyether-based electrolytes <u>Kousuke Matsuo</u> ,Shohei Yuasa,Ryansu Sai,Yu Katayama,Hiromori Tsutsumi  Effect of TiO2 particles on ion conduction mechanism in polyether-based electrolyte containing cyano group <u>Tasuku Hitaka</u> ,Ryutaro Isobe,Koki Yamada,Ryansu Sai,Yu Katayama,Hiromori Tsutsumi  Evaluation of SPI/Si-Epoxy CT blend membrane for PEFC application <u>Byungchan Hwang</u> ,Masamichi Nishihara,Kazunari Sasaki,Akari  Hayashi,Shoichi Kondo,Takamasa Kikuchi
15:00 15:15	1M22 1M23	Steric effects of sidechains on the ion transport properties of polyether-based electrolytes  Kousuke Matsuo, Shohei Yuasa, Ryansu Sai, Yu Katayama, Hiromori Tsutsumi  Effect of TiO2 particles on ion conduction mechanism in polyether-based electrolyte containing cyano group  Tasuku Hitaka, Ryutaro Isobe, Koki Yamada, Ryansu Sai, Yu Katayama, Hiromori Tsutsumi  Evaluation of SPI/Si-Epoxy CT blend membrane for PEFC application  Byungchan Hwang, Masamichi Nishihara, Kazunari Sasaki, Akari Hayashi, Shoichi Kondo, Takamasa Kikuchi  Y. Katayama, presiding  Ion transport properties of weakly coordinating polymeric salts in non-aqueous solvents  XiaoXiao Yang, Yusuke Sakashita, Keita Murai, Ryoichi tatara, Hisashi
15:00 15:15 15:30	1M22 1M23 1M24	Steric effects of sidechains on the ion transport properties of polyether-based electrolytes <u>Kousuke Matsuo</u> ,Shohei Yuasa,Ryansu Sai,Yu Katayama,Hiromori Tsutsumi  Effect of TiO2 particles on ion conduction mechanism in polyether-based electrolyte containing cyano group <u>Tasuku Hitaka</u> ,Ryutaro Isobe,Koki Yamada,Ryansu Sai,Yu Katayama,Hiromori Tsutsumi  Evaluation of SPI/Si-Epoxy CT blend membrane for PEFC application <u>Byungchan Hwang</u> ,Masamichi Nishihara,Kazunari Sasaki,Akari  Hayashi,Shoichi Kondo,Takamasa Kikuchi  Y. Katayama, presiding  Ion transport properties of weakly coordinating polymeric salts in non-aqueous solvents <u>XiaoXiao Yang</u> ,Yusuke Sakashita,Keita Murai,Ryoichi tatara,Hisashi  Kokubo,Kazuhide Ueno,Kaoru Dokko,Masayoshi Watanabe  Partially fluorinated copolymers containing pendant piperidinium head groups as anion exchange membranes: effect of the side chain length

16:30 1M28 Introducing sacrificial bonds to rubber vulcanizes for enhancing physical properties

TAKATSUGU TANAKA, YASUHIRO SHODA, TOMOYUKI KOSAI

# Thu. May 28

# C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

# M. Mitsuishi, presiding

M. Mitsuishi, presiding			
10:00	2M05ILI	Understanding the interactions in organic solid electrolytes and composites for future battery applications <u>Xiaoen Wang</u> ,Fangfang Chen,Gaetan Girard,Frederick Nti,David Mecerreyes,Patrick Howlett,Maria Forsyth	
10:30	2M07	Aqueous-processed enzyme-carbon nanotube composites using multi-functional polymers for bioelectrodes <u>Masuki Kawamoto</u> , Hsiu-Pen Lin, Jun Akimoto, Yaw-Kuen Li, Yoshihiro Ito	
10:45	2M08	Fabrication and Characterization of Conductive Polymer Composites consists of PEDOT:PSS and Silver Nanowire <u>Hiroaki Tanahashi</u> ,Taiki Hashimoto,Ryohei Haga,Seira Moriya-Morimune	
11:00	2M09	Design of Liquid Crystalline Polymer- Gold Nanoparticle Hybrid Films with Controllable Optical and Electrical Properties. <u>Hiroki Tanaka</u> , Akifumi Kawamura, Takashi Miyata	
	]	M. Kawamoto, presiding	
11:15	2M10	Fabrication of Pt/WO3-Polydimethylsiloxane Hybrid Membrane for Hydrogen Gas Sensor Ryo Ishihara, Yuki Yamaguchi, Kanta Tanabe, Yoshihiro Makino, Keishi Nishio	
11:30	2M11	Boronic Acid-Functionalized Polycyclosiloxanes: Synthesis and Applications Soyeon Kim, Huie Zhu, Masaya Mitsuishi	
12:30	2M12	Functional Cyclosiloxane Polymers Synthesized via Piers-Rubinsztajn Reaction <u>Huie Zhu</u> ,Shogo Hiruta,Masaya Mitsuishi	
12:45	2M13	PEG-b-PLGA/laponite thermoresponsive hydrogel: Degradation behavior of PEG-b-PLGA diblock copolymers Tomoki Maeda,Atsushi Hotta, <u>Satoshi Koizumi</u>	
	]	. Taniguchi, presiding	
13:00	2M14	Cooperative Influences of Nanoparticle Localization and Phase Coarsening on Thermal Conductivity of Ternary Nanocomposites <u>Xi Zhang</u> ,Toru Wada,Patchanee Chammingkwan,Toshiaki Taniike	
13:15	2M15	Preparation of Perovskite Nanosheet/Poly(N-isopropylacrylamide) Composite Hydrogel with Structural Color <u>Wenqi Yang</u> ,Shinya Yamamoto,Keiichirou Sueyoshi,Nobuyoshi Miyamoto	
13:30	2M16ILI	Two-Dimensional Covalent Organic Frameworks: Structural Design, Synthesis, and Application <a href="Ning Huang">Ning Huang</a>	
14:00	2M18	High-flux membranes based on zeolitic imidazole framework for organic solvent nanofiltration <u>Hui You</u> ,Goji Y. Shangkum,Toshiaki Taniike	
	1	M. Tanaka, presiding	
14:15	2M19	Anomalous Mass Transport Behavior through Fluorinated Nanochannels <u>Yoshimitsu Itoh</u> ,Ryota Hirahara,Kohei Sato,Takuzo Aida	
14:30	2M20	Selective separation of TR-binding compounds by a receptor-mimic polymer material	

		<u>Takuya Kubo</u> ,Shuhei Yamamoto,Toyohiro Naito,Daisuke Nakajima,Koji Otsuka
14:45	2M21	CO2 capture by amine-containing polymeric membranes: Effect of relative humidity on the CO2 separation performance <a href="Ikuo Taniguchi">Ikuo Taniguchi</a> , Kae Kinugasa, Mariko Toyoda, Mitsunari Matsunaga
15:00	2M22	Recycled PET as a PDMS-Functionalized Electrospun Fibrous Membrane for Oil-Water Separation  Ngoc Hoan Doan, Phong Phu Vo, Kenji Kinashi, Wataru Sakai, Naoto Tsutsumi
		Y. Itoh, presiding
15:15	2M23	Synthesis of pi-stacked poly(4,5-diazadibenzofulvene) as macromolecular ligand and its application for catalytic reactions <a href="Yuehui Yuan">Yuehui Yuan</a> , Zhiyi Song, Tamaki Nakano
15:30	2M24	Synthesis of Asymmetrically Substituted Poly(diphenylacetylene)s Bearing Optically Active Anilide Pendants and Their Application to Chiral Stationary Phases for HPLC <u>Mai Nozaki</u> , Daisuke Hirose, Tatsuya Nishimura, Katsuhiro Maeda
15:45	2M25	Development of amphiphilic polymer modified calcium carbonate microspheres for application to separation material <u>Yuki Hiruta</u> ,Kogi Kaizu,Mai Mochida,Hiroaki Imai,Daniel Citterio
16:00	2M26	A microfluidic system with an extended-gate type polymer transistor for real- time glucose monitoring Pierre Didier, <u>Tsuyoshi Minami</u>

# Fri. May 29

# C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS "English Session"

# N. Shida, presiding

9:30	3M03	Manipulate Proteins Adsorption on Phosphocholine Immobilized Conducting Polymer by Surface Potential Jhih Guang Wu,Shyh Chyang Luo
9:45	3M04	Life Prolongation and Functionalization of Antithrombotic Poly(2-methoxyethyl acrylate) Coating via Organic-Inorganic Hybrid Strategy Shinnosuke Nishimura, Tomoya Ueda, Shingo Kobayashi, Masaru Tanaka
10:00	3M05	Bioinert Properties of Epoxy/Betaine Based Polymer Adhesive <u>Masayasu Totani</u> ,Junko Katayama,Masaaki Ozawa,Nobutomo Tsuruzoe,Hisao Matsuno,Keiji Tanaka
10:15	3M06	Effects of Chain Length on Bioinert Properties for Poly(2-oxazoline) Derivatives <u>Jinhyeok Hong</u> , Masayasu Totani, Hisao Matsuno, Keiji Tanaka
		H. Matsuno, presiding
10:30	3M07	Structural analysis of polymer nano-thin films reversibly photo-switching formation and disappearance of phase separation  Naoya Takeda, Masato Sakano, Haruka Umeno, Yutaro Miyake, Keiichi Imato, Yuji Tsuchido
10:45	3M08	Synthesis of Superhydrophobic Nanomaterials by the Living Coordination Block Copolymerization of Fluorous Allenes with Hydrophobic Allenes via Polymerization-induced Self-assembly and Their Applications to Optically Transparent Surface Coatings <u>Yidan CHENG</u> , Takeshi Wakiya, Hiroki Nishiyama, Shinsuke Inagi, Ikuyoshi Tomita
11:00	3M09	Aqueous Dispersion of Polytetrafluoroethylene (PTFE) Nanoparticles using Biomimetic Catechol based Adhesive Polymers <u>Manjit Singh Grewal</u> , Hiroshi Yabu

# H. Yamagishi, presiding

11:15	3M10	Solvatochromism of near infrared photoluminescence from oxygen-doped single-walled carbon nanotubes <u>Yoshiaki Niidome</u> ,Tomohiro Shiraki,Tsuyohiko Fujigaya
11:30	3M11	Light-induced wavelength changes in near infrared photoluminescence from single-walled carbon nanotubes functionalized with diarylethene derivatives <a href="Yasuto Nakagawa">Yasuto Nakagawa</a> , Tomohiro Shiraki, Takuya Nakashima, Tsuyoshi Kawai, Tsuyohiko Fujigaya
N. Kimizuka, presiding		
12:30	3M12	Rotation of polarized plane of electroluminescence from double chiral liquid crystalline semiconductor with the external electric field <u>Masahiro Funahashi</u>
12:45	3M13	Novel electrochemiluminescent device with DNA/photo-electro functional molecles Haruki Minami,Ryuki Ozawa,Kazuki Nakamura,Norihisa Kobayashi
13:00	3M14	Luminescent Characteristics of Organic Light Emitting Diodes Using Single Crystals Processed by a Plasma Treatment <u>Yuji Kobayashi</u> , Yuhi Inada, Takeshi Yamao
		M. Funahashi, presiding
13:15	3M15	Hydrogels showing near infrared-to-visible phtoton upconversion <u>Nobuhiro Yanai,</u> Yoichi Sasaki,Mio Oshikawa,Itsuki Ajioka,Moritoshi Sato,Akiko Hayashi-Takagi,Nobuo Kimizuka
13:30	3M16	Light-triggered welding of polymer-based optical microresonators <u>Hiroshi Yamagishi</u> , Yohei Yamamoto
		N. Yanai, presiding
13:45	3M17	Ultrahigh Cycle Stable Electrochromic Display with Metallo-Supramolecular Polymer <u>Sanjoy Mondal</u> ,Masayoshi Higuchi
14:00	3M18	Waveguide analysis of polymer optical fibers doped with phthalocyanine derivative. <u>Takahiro Shigeyama</u> ,Chie Hirose,Rei Furukawa
14:15	3M19	Surface Wettability Controllable Polyimides Containing Perfluoroalkyl Group by Photo-irradiation <u>Yusuke Tsuda</u> ,Koki Hara