

The 12th SPSJ International Polymer Conference (IPC2018)

Tentative Scientific Program

Plenary Lecture: Room AB Oral Presentation: Room A-G Poster Presentation: Room P

Room AB

Tuesday, December 4, 2018

Plenary Lecture

- 4AB01PL Redox-active Polymers as an Organic Charge-Transport and
15:00 Energy-Storage Material
Hiroyuki Nishide (Japan)
- 4AB02PL Strategy for differentiation of polymers toward up-stream and
16:00 toward down-stream
Tohru Setoyama (Japan)

Wednesday, December 5, 2018

Plenary Lecture

- 5AB03PL A Macromolecular Approach to Anti-fouling, Fouling Resistant
9:15 Surfaces
Christopher Kemper Ober (U.S.A.)
- 5AB04PL Multifunctional Supramolecular Platforms with Stimuli-Responsive
10:15 Surfaces
Chulhee Kim (Korea)

Room A

Wednesday, December 5, 2018

T-1: Synthetic Polymer Chemistry

- 5A01KL External Control in Atom Transfer Radical Polymerization
14:00 Krzysztof Matyjaszewski (U.S.A.)
- 5A02KL Copper mediated living radical polymerisation in the presence of
14:40 oxygen
David M. Haddleton, Evelina Liarou, Richard Whitfield, Athina Anastasaki, Glen R. Jones (U.K.)
- 5A03 Advances in fluoropolymers synthesis and macromolecular
15:20 engineering
Vincent Ladmiral, Marc Guerre, Vincent Bouad, Bruno Ameduri, Rinaldo Poli, Sophie Barrau, Cedric Totee, Gilles Silly, Antoine Debuigne, Christophe Detrembleur (France)
- 5A04 Synthesis of polyurethane-based triblock copolymers via ATRP and
15:40 their physical properties
Lei Chen, Mikihiro Hayashi, Akinori Takasu (China)
- 5A05 Synthesis of Block Copolymers by Living Polymerizations and
16:00 Preparation of Nanomaterials
Chih-Feng Huang (Taiwan)
- 5A06 Synthesis of Bottlebrush Polymers Containing Polyallene Structure
16:20 as Main Chain
Hiroshi Eguchi, Keita Sakakibara, Ikuyoshi Tomita, Yoshinobu Tsujii (Japan)
- 5A07 Simultaneous Control of Molecular Weights and Stereo-Structures
16:40 Using Cationic RAFT Polymerization
Mineto Uchiyama, Kotaro Satoh, Masami Kamigaito (Japan)
- 5A08 Cationic Polymerization of Vinyl Monomers using Halogen
17:00 Bonding Catalyst
Koji Takagi, Koji Yamauchi, Hiroto Murakata, Kohei Hashimoto (Japan)

Thursday, December 6, 2018

T-1: Synthetic Polymer Chemistry

- 6A01IL Anionic Polymerization of Monomers Possessing Adamantyl
9:00 Groups
Takashi Ishizone (Japan)

- 6A02IL Controlling Chemical Reactivity with Different Colors of Light –
9:30 the Next Frontier in Photochemical Macromolecular Synthesis
Christopher Barner-Kowollik (Australia)
- 6A03 Controlled Ring-Expansion Polymerization of Thiiranes with
10:00 Benzothiazolone Initiator to Access Novel Cyclic Polysulfides with
Well-Defined Topology
Akira Takahashi, Ryu Yuzaki, Yoshihito Ishida, Atsushi Kameyama (Japan)
- 6A04 A New Approach to Making Aliphatic Polyesters from Sustainable
10:20 1,3-Dioxolan-4-ones
Yuechao Xu (U.K.)
- 6A05 Synthesis and Characterization of Ester Functionalized Poly
10:40 (dicyclopentadiene)
Tong Li, Tyler John Cuthbert, Jun Chen, Jeremy Earle Wulff (Canada)
- 6A06 Lanthanide Complexes with Trizinc-crown Ether as Unique
11:00 Catalysts for Carboxylate Anions Induced Telomerization of
Alternating Copolymerization of Epoxide and CO2
Haruki Nagae, Shin-Nosuke Akutagawa, Hayato Tsurugi, Kazushi Mashima (Japan)
- 6A07 Polymerization of styrene by the organozinc compound
11:20 Chao Zhao, Hiromu Okada, Ryuichi Sugimoto (Japan)
- 6A08 Reactions and Polymerizations of Vinyl Monomers Enabled by N-
11:40 Heterocyclic Carbene Catalysis
Shin-Ichi Matsuoka, Masato Suzuki (Japan)
- 6A09 Synthesis of Core-Corona Polymer Microsphere-supported
12:00 Cinchonidium Salt and Its Application to Asymmetric
Organocatalyst
Md. Wali Ullah, Takuya Sugimoto, Naoki Haraguchi, Shinichi Itsuno (Japan)
- 6A10IL Cascade Polymerization Using Grubbs Catalysts
14:00 Tae-Lim Choi (Korea)
- 6A11 Fluorinated Poly(substituted methylene)s Prepared by Pd-Initiated
14:30 Polymerization of Fluorine-Containing Alkyl and Phenyl
Diazoacetates: Their Unique Solubility and Postpolymerization
Hiroaki Shimomoto, Tomohiko Kudo, Shogo Tsunematsu, Tomomichi Itoh, Eiji Ihara (Japan)
- 6A12 Heteroatom-Assisted Regio- and Stereo-selective
14:50 Cyclopolymerization of Functionalized 1,6-Heptadiene and Its
Copolymerization with Ethylene by Scandium Catalysts
Haobing Wang, Yang Yang, Masayoshi Nishiura, Zhaomin Hou (Japan)
- 6A13 Scandium-catalyzed Copolymerization of Ethylene with
15:10 Functionalized Internal Olefins
Chunxiang Wang, Masayoshi Nishiura, Zhaomin Hou (Japan)
- 6A14 Total scattering approach for primary particles of MgCl₂-supported
15:30 Ziegler-Natta catalysts
Toru Wada, Takasao Gentoku, Alessandro Piovano, Patchanee Chammingkwan, Elena Groppo, Toshiaki Taniike (Japan)
- 6A15 Synthesis and their physical properties of star-shaped cyclic olefin
15:50 copolymer
Ryo Tanaka, Naoki Tonoko, Yuushou Nakayama, Takeshi Shiono (Japan)
- 6A16 Terpolymerization of norbornene/ 1-octene/ norbornadiene by ansa-
16:10 fluorenylamide titanium-based catalysts
Hongyi Suo, Ryo Tanaka, Yuushou Nakayama, Wen-Hua Sun, Takeshi Shiono (China)
- 6A17IL Novel Synthetic Strategy for Multicyclic Polymers
16:30 T. Isono, Toshifumi Satoh (Japan)

Friday, December 7, 2018

T-1: Synthetic Polymer Chemistry

- 7A01IL Direct arylation polycondensation: simple access to semiconducting
9:00 polymers
Takaki Kanbara (Japan)

7A02 9:30	Highly Efficient Palladium Catalysts for Precise Synthesis of Donor-Acceptor Conjugated Polymers via Direct Arylation Polymerization (DARP) <u>Masayuki Wakioka</u> , Natsumi Yamashita, Naohiro Torii, Hazuki Morita, Nobuko Ichihara, Fumiyuki Ozawa (Japan)	5B04 15:00	Observation of craze and fibril structure formation by the continuous neck-drawing of poly(ethylene terephthalate) and poly(phenylene sulfide) fiber <u>Ren Tomisawa</u> , Takumi Ando, Toshifumi Ikaga, Kyoungou Kim, Yutaka Ohkoshi, Kazuyuki Okada, Hiroyasu Masunaga, Toshiji Kanaya, Hiroo Katsuta, Yoshitsugu Funatsu (Japan)
7A03 9:50	Catalyst Transfer Condensation For The Synthesis of Conjugated Polymers <u>Kevin Noonan</u> (U.S.A.)	5B05 15:20	Structural Analysis for uni-/bi-axial drawing polyethylene Keisuke Sotoyama, Yo Okawa, <u>Go Matsuba</u> (Japan)
7A04 10:10	Precise Synthesis of End-Functionalized Conjugated Polymers by Combined ADMET Polymerization with Wittig-Type Coupling <u>Kotohiro Nomura</u> , Mikiko Kunisawa (Japan)	5B06 15:40	Structural Development during Melt-Drawing of Ultra-High Molecular Weight / Normal Molecular Weight Polyethylene Blend Films with Different Blend Ratios Hidekazu Tanaka, Takeshi Yamanobe, <u>Hiroki Uehara</u> (Japan)
7A05 10:30	Synthesis and Room-Temperature Phosphorescence Property of β -Diketiminato Complexes Composed of Group 13 Element <u>Shunichiro Ito</u> , Kazuo Tanaka, Yoshiki Chujo (Japan)	5B07 16:00	Temperature dependence of morphological change with heat treatments of polyester fabrics <u>Yurika Maeda</u> , Go Matsuba, Yoko Fukuda (Japan)
7A06 10:50	Self-Assembly of Amphiphilic Random Copolymers into Nanostructured Materials <u>Takaya Terashima</u> (Japan)	5B08 16:20	In Situ Real-Time AFM Observation of Polymer Folded-Chain Crystallization at the Molecular Level Yuki Ono, <u>Jiro Kumaki</u> (Japan)
7A07 11:10	Mechanochemical Degradation of Polyphenylene-Based Dendronized Polymers <u>Gregory (I) Peterson</u> , Ki-Taek Bang, Tae-Lim Choi (Korea)	5B09 16:40	Crystallization kinetics of Polycaprolactone in Spin-coating Film-forming Processes <u>Sono Sasaki</u> , Jinkyu Park, Shun Miyamoto, Mami Goda, Md. Amran Hossain, Shinichi Sakurai, Hiroyasu Masunaga, Takaaki Hikima, Masaki Takata (Japan)
7A08IL 11:30	Stereoregular Polymers: Syntheses and Molecular self-assembly <u>Jing-Cherng Tsai</u> (Taiwan)	5B10 17:00	Molecular Simulation for surface properties of ring polymers in nanoconfined geometry <u>Visit Vao-Soongnem</u> (Thailand)
7A09 12:00	Synthesis and Characterization of Mechanochromic Polymers with a Thermostable Mechanophore <u>Hio Sakai</u> , Daisuke Aoki, Hideyuki Otsuka (Japan)		
7A10IL 14:00	Molecular Engineering of Architectural and Precision Polymers by Anionic Polymerization <u>Junpo He</u> , Hefeng Zhang, Yunhai Yu, Chengke Qu, Xingming Pu, Ke Zheng (China)		
7A11 14:30	Synthesis and Study the Rheology Behavior of Thermoresponsive/Self-healing Dual-functional Hydrogel <u>Kuan-Ying Chen</u> , Jui-Ming Yeh (Taiwan)		
7A12 14:50	Synthesis of polymers with protein-like structure and activity <u>Erik Berda</u> (U.S.A.)		
7A13 15:10	Dissimilar Materials Bonding Using Epoxy Monolith <u>Akikazu Matsumoto</u> , Yuka Sugimoto, Yukihiko Nishimura (Japan)		
7A14 15:30	Side chain modification of poly(phenyl methacrylate) by transesterification using zinc art complex <u>Miyuki Oshimura</u> , Tomoki Hirata, Tomohiro Hirano, Koichi Ute (Japan)		
7A15 15:50	Catalyst- and Solvent-free Modification of Polysiloxane using Stable Nitrile <i>N</i> -Oxide : Grafting and Cross-linking <u>Toyokazu Tsutsuba</u> , Toshikazu Takata (Japan)		
7A16 16:10	Synthesis, Degradation, and Main-Chain Exchange Reaction of Poly(conjugated ester)s <u>Yasuhiro Kohsaka</u> , Takumi Miyazaki, Koki Nagai (Japan)		
7A17 16:30	Downsizing of Microphase-Separated Structures via Intramolecular Cross-Linking of Polystyrene- <i>b</i> -Polylactides <u>Kodai Watanabe</u> , Satoshi Katsuhara, Takuya Isono, Takuya Yamamoto, Kenji Tajima, Toshifumi Satoh (Japan)		
7A18 16:50	Multifunctional homopolymers: from synthesis to applications <u>Tomohiro Kubo</u> , Adrian Figg, Jeremy Swartz, Kyle Bentz, Kristin Powell, Anuj Chauhan, Daniel Savin, Brent Sumerlin (U.S.A.)		

Thursday, December 6, 2018

T-2: Polymer Physics

6B01IL 9:00	Analysis of Depth-dependent Structures in Polymer Thin Films by GISAXS Utilizing Tender X-ray <u>Katsuhiro Yamamoto</u> (Japan)
6B02 9:30	Light-induced shape changes of non-spherical polymer particles prepared by dispersion polymerizations of azobenzene monomers <u>Tomomichi Itoh</u> , Tatsuro Aki, Yuki Mori, Kento Tsutsui, Hiroaki Shimomoto, Eiji Ihara (Japan)
6B03 9:50	Polymer brush formation at the surface of substrate-bonded diblock copolymer monolayers <u>Naoto Iwata</u> , Yuzuka Yoshioka, Masatoshi Tokita (Japan)
6B04 10:10	Surface Properties of Poly(substituted methylene)s and their Block Polymer with Hydrophobic Group in its Side Chain <u>Eichi Kannan</u> , Takuya Matsumoto, Takashi Nishino (Japan)
6B05 10:30	Structure and Property of Dynamic Polymer Brush <u>Hideaki Yokoyama</u> , Manabu Inutsuka, Kazuma Inoue, Hirokazu Tanoue Tanoue, Kanta Yanagi, Taihei Aoki, Kohzo Ito, Norifumi Yamada (Japan)
6B06 10:50	Dynamics of Water Spreading on Micro-Patterned Polyelectrolyte Brushes Surface <u>Shohei Shiomoto</u> , Kazuo Yamaguchi, Motoyasu Kobayashi (Japan)
6B07KL 11:10	Fibril Formation in Methylcellulose and Derivatives <u>Timothy P. Lodge</u> , S. Morozova, P. W. Schmidt, F. S. Bates (U.S.A.)
6B08KL 11:50	Homochiral Evolution in Self-Assembled Chiral Polymers and Block Copolymers <u>Rong-Ming Ho</u> (Taiwan)
6B09KL 13:50	Slide-Ring Materials: Novel Molecular Concept for SHINAYAKA Polymers <u>Kohzo Ito</u> (Japan)
6B10 14:30	Higher-Order Structure and Viscosity of Concentrated Solutions of the Flower Micelle and Flower Necklace Formed by an Amphiphilic Alternating Copolymer <u>Takahiro Sato</u> , Yasuho Ohtani, Sahomi Takeuchi (Japan)
6B11 14:50	UV photografting at the service of adhesion enhancement on plastic substrates <u>Agnes Rannee</u> , Celine Croutxe-Barghorn, Xavier Allonas, Dominique Burr (France)

Room B

Wednesday, December 5, 2018

T-2: Polymer Physics

5B01 14:00	Photo-induced Polymer Grafting from Macroinitiators Immobilized on Solid Substrate Surface <u>Wei Ma</u> , Yuji Higaki, Atsushi Takahara (Japan)
5B02 14:20	Utilizing ultra-fast-scan calorimetry on crystallization and melting of polymer crystals <u>Akihiko Toda</u> , Ken Taguchi, Gaku Kono, Koji Nozaki (Japan)
5B03 14:40	Effect of molecular weight and its distribution on the properties and structure of polypropylene fiber <u>Tatsuma Kunimitsu</u> , Shuji Warashina, Toshifumi Ikaga, Kyoungou Kim, Yutaka Ohkoshi, Katsuhiko Koike (Japan)

- 6B12 Dual-functional polymer for adhesion promotion and planarization in electroless copper plating
15:10 Reika Katsumata, Zachary R. Neary, Feng Li, Julia Kozhukh, Mingqi Li, Peter Trefonas, Rachel A. Segalman (U.S.A.)
- 6B13 Adhesive-free adhesion of cross-linked soft polyester films by utilizing bond-exchangeable dynamic cross-links
15:30 Mikihiro Hayashi, Ryoto Yano, Akinori Takasu (Japan)
- 6B14 Dynamics of Conformational Relaxation of Polystyrene at Surface
15:50 Hung Kim Nguyen, Manabu Inutsuka, Daisuke Kawaguchi, Keiji Tanaka (Japan)
- 6B15KL Probing Molecular Structures of Buried Polymer Interfaces in Situ
16:10 Zhan Chen (U.S.A.)
- 6B16 Morphology of deoxyribonucleic acid chains adsorbed onto solid interface
16:50 Yuma Morimitsu, Hisao Matsuno, Keiji Tanaka (Japan)
- 6B17 Controllable Wettability of Bio-Inspired Open Channel by Changing Surface Structures
17:10 Tsubasa Kashima, Koki Kawai, Daisuke Ishii (Japan)
- 7B14 Solution properties and chiral recognition ability of cyclic amylose carbamates
15:20 Akiyuki Ryoki, Shinichi Kitamura, Ken Terao (Japan)
- 7B15 Discontinuous Dodecamer-Icosamer Transition of a Calix[4]arene-Derived Surfactant Monitored by Time-Resolved SAXS
15:40 Rintaro Takahashi, Sakiko Matsumoto, Shota Fujii, Ji Ha Lee, Theyencheri Narayanan, Kazuo Sakurai (Japan)
- 7B16 Platonic micelles, their structures and kinetics
16:00 Kazuo Sakurai, Shota Fujii, Rintaro Takahashi (Japan)
- 7B17 Structure and Viscosity of Thermally Renatured Xanthan
16:20 Yasuhiro Matsuda, Fumitada Sugiura, Kazuya Okumura, Shigeru Tasaka (Japan)

Room C

Wednesday, December 5, 2018

T-8: Supramolecular Chemistry and Complex Macromolecular

Friday, December 7, 2018

T-2: Polymer Physics

- 7B01IL Control of Nanostructured Morphology of Poly(L-lactide) in Multiphase Polymer Systems
9:00 Erathimanna Bhoje Gowd (India)
- 7B02 Phase separation during the bulk polymerization of methyl methacrylate
9:30 Yasuhito Suzuki, Yuya Shinagawa, Akikazu Matsumoto (Japan)
- 7B03 Probe diffusion in Nafion solutions
9:50 Caidric Gupit, Xiang Li, Ryosuke Maekawa, Naoki Hasegawa, Mitsuhiro Shibayama (Japan)
- 7B04 Synthesis and morphology using ABA triblock copolymer containing photo cross-linkable A blocks and effect of photo cross-linking on physical properties
10:10 Isamu Kawarazaki, Mikihiro Hayashi, Akinori Takasu (Japan)
- 7B05 In-situ SAXS study on self-assembling of polymer-brush-modified nanoparticle/ionic liquid composites through dip-coating process
10:30 Yohei Nakanishi, Hiroki Ogawa, Ryohei Ishige, Kohji Ohno, Taizo Kabe, Toshiji Kanaya, Mikihiro Takenaka, Yoshinobu Tsujii (Japan)
- 7B06 Solution Properties and Liquid Crystallinity of a Rigid Helical Star Polymer: Three-arm Star Poly(quinioxaline-2,3-diyl)
10:50 Ken Terao, Hirokazu Hasegawa, Yuuya Nagata, Michinori Sugimoto, Takahiro Sato (Japan)
- 7B07 Microwave Absorption Properties of Polyaniline (PAni) with Different Contents of Fullerene (C60)
11:10 Sook-Wai Phang, Nurrafiqah Mokhtar (Malaysia)
- 7B08 Carbohydrate-based block copolymer self-assemblies: Nanoparticles of sub-10nm highly nanostructured thin films
11:30 Redouane Borsali (France)
- 7B09KL Characterization of Polystyrene Prepared by Controlled Radical Polymerization
11:50 Taihyun Chang (Korea)
- 7B10 Thermo-Responsive Behavior of Random Copolymers Bearing Anionic and Cationic Pendants with Well Controlled Structure
14:00 Komol Kanta Sharker, Yuki Ohara, Shigeta Yusuke, Shin-Ichi Yusa (Japan)
- 7B11 Evolution of Spatial Heterogeneity in a Poly(N-isopropylacrylamide) Solution at a Temperature below the Cloud Point
14:20 Takuro Kogo, Atsuomi Shundo, Chi Wang, Keiji Tanaka (Japan)
- 7B12 Colloidal Dispersion State of Phase Separating Aqueous Solutions of Poly(N-isopropylacrylamide)
14:40 Jiayun Han, Rintaro Takahashi, Takahiro Sato (Japan)
- 7B13 Micellization and Phase Separation in Aqueous Solutions of Poly(N-isopropylacrylamide)-b-Poly(N-vinyl-2-pyrrolidone) upon Heating.
15:00 Chen Kuang, Shin-Ichi Yusa, Takahiro Sato (Japan)
- 5C01KL F-diamane, large area single crystal metal foils and some of their uses, chemistry and mechanics of graphene, 3D assemblies
12:30 Rodney S. Ruoff (Korea)
- 5C02 Chemical Functionalization of Graphene Quantum Dots
13:10 Ryo Sekiya, Kairi Yamato, Kaho Suzuki, Takeharu Haino (Japan)
- 5C03 Selective Wavelength Shifts of Near Infrared Photoluminescence Based on Molecular Recognition on Single-walled Carbon Nanotubes
13:30 Tomohiro Shiraki, Hisashi Onitsuka, Tamehito Shiga, Tomonari Shiraiishi, Naotoshi Nakashima, Tsuyohiko Fujigaya (Japan)
- 5C04 Templated production of highly active gold nanocatalysts on surface-aminated 2D cellulose assemblies
13:50 Takatashi Nohara, Toshiki Sawada, Hiroshi Tanaka, Takeshi Serizawa (Japan)
- 5C05 Transport Properties of Water Molecules and Ionic Solutes in Sub-Nanopores of Nanostructured Water Treatment Liquid Crystal Membranes Studied by Molecular Dynamics Simulations
14:10 Hiroki Nada, Takeshi Sakamoto, Masahiro Henmi, Takashi Kato (Japan)
- 5C06 Preparation of Giant Polyion Complex (PIC) Vesicles
14:30 Shin-Ichi Yusa, Keita Nakai, Kazuhiko Ishihara (Japan)
- 5C07 Fabrication of carbon coated nano-silica by one step polymerization on helical nanosilica created based on chiral molecular assembly-template
14:50 Shaheen Pathan, Makoto Takafuji, Reiko Oda, Hirotaka Ihara (Japan)
- 5C08 Electrically Responsive Chiral Dopants for the Modulation of Cholesteric Reflection Colors
15:10 Yoshimitsu Itoh, Shoichi Tokunaga, Takuzo Aida (Japan)
- 5C09 Nanosheet of amorphous covalent 2D polymer containing pyrrole and quinone moieties and its application to hydrogen evolution electrocatalyst
15:30 Shoichiro Yano, Kosuke Sato, Hiroaki Imai, Yuya Oaki (Japan)
- 5C10 Peculiar Mechanical Properties Attributed to the Mechanically Interlocked Structure of Polyrotaxane Glasses
15:50 Kazuaki Kato, Akihiro Ohara, Kaito Nemoto, Koichi Mayumi, Hideaki Yokoyama, Kohzo Ito (Japan)
- 5C11 Synthesis and properties of hyperbranched and long-chain branched poly(L-lactide)s
16:10 Mitsutoshi Jikei (Japan)
- 5C12 Platonic micelles composed of a resorcinarene-based amphiphile in organic solvents
16:10 Shota Fujii, Rika Miyake, Ji Ha Lee, Rintaro Takahashi, Kazuo Sakurai (Japan)
- 5C13IL Dendrimer Reactor for Fine-controlled Subnano Metal Particles
16:50 Kimihisa Yamamoto (Japan)

Thursday, December 6, 2018

T-8: Supramolecular Chemistry and Complex Macromolecular

- 6C01KL From Molecules to Materials
9:00 Colin Nuckolls (U.S.A.)
- 6C02 Host-guest complexation using pillar[n]arene crystals
9:40 Tomoki Ogoshi, Takahiro Kakuta, Tada-Aki Yamagishi (Japan)
- 6C03 Amplification of chirality in chiral micelle: enhancement of enantioselective binding
10:00 Nozomu Suzuki, Yuka Sugiyama, Yuka Okuno, Kanji Miyabe (Japan)
- 6C04 Stimuli-responsive supramolecular nanostructures guided by chemical reactions
10:20 Masato Ikeda (Japan)
- 6C05 Polyrotaxane nanosheet: novel self-assembling nanosheet from supramolecular chemistry
10:40 Rina Maeda, Shuntaro Uenuma, Kengo Kasai, Hideaki Yokoyama, Kohzo Ito (Japan)
- 6C06 Stepwise Crystallization Driven by A Spontaneous Kinetic-to-Thermodynamic Transition
11:00 Hubiao Huang, Hiroshi Sato, Takuzo Aida (Japan)
- 6C07 Fabrication of Polymer-free Cucurbit[6]uril Nonwovens by Electrospinning
11:20 Hiroaki Yoshida, Koki Miyazawa, Toshiyuki Kida (Japan)
- 6C08 Hierarchical Structures Self-Assembled from Polypeptide-Based Copolymers
11:40 Jiaping Lin (China)
- 6C09 Self-Sorting-Directed Supramolecular Terpolymerization
12:00 Takehiro Hirao, Hiroaki Kudo, Tomoko Amimoto, Takeharu Haino (Japan)
- 6C10IL Measuring Interaction Forces between Particle and Polymer-Functionalized Surfaces
15:30 To Ngai, F. Cao, W. D. Li, K. Ohno (Hong Kong)
- 6C11 Crystal Cross-Linking of Metal Organic Frameworks
16:00 Kazuki Sada, Kenta Kokado, Shizuka Anan (Japan)
- 6C12 Morphological Transition of Oppositely Charged Calix[4]arene Surfactant Mixture
16:20 Ji Ha Lee, Shota Fujii, Rintaro Takahashi, Kazuo Sakurai (Japan)
- 6C13 Hexaplex formation in aqueous solution
16:40 Hiromu Kashida, Yuhei Hattori, Hiroyuki Asanuma (Japan)
- 6C14KL Advanced Design of Self-Healable Materials by Supramolecular Chemistry
17:00 Takuzo Aida (Japan)

Friday, December 7, 2018

T-8: Supramolecular Chemistry and Complex Macromolecular

- 7C01KL Functional Polymers for Shape Control on the Nano- and Mesoscale
9:00 Dylan Barber, Cristiam Santa Chalarca, Al Crosby, Todd Emrick (U.S.A.)
- 7C02 Design of Thermoresponsive Self-Assemblies Using Amphiphilic Liquid Crystalline Polymers and Their Applications as Drug Carriers
9:40 Takashi Miyata, Yasuaki Inoue, Akifumi Kawamura (Japan)
- 7C03 Hydrogel Formed by a Low-Molecular Weight Organogelator
10:00 Kenji Aramaki, Eriko Takimoto, Sachi Koitani, Cosima Stubenrauch (Japan)
- 7C04 Self-Healable Elastomer Based on Triblock Copolymer Possessing Main-Chain 1,2,3-Triazole Blocks
10:20 Yanqiong Yang, Akihito Hashidzume (Japan)
- 7C05 Fluorescent labeling method reveals the functional mechanism of thermo-responsive poly(acrylamide-co-acrylonitrile)s with upper critical solution temperatures
10:40 Chie Otsuka, Hidetoshi Tokuyama, Seiichi Uchiyama (Japan)
- 7C06 Dehydration, Self-Association, and Phase Separation Behavior of Thermosensitive Polyoxazoline Star Block-Copolymers in Aqueous Solution
11:00 Tetiana Sezonenko, Xing-Ping Qiu, Françoise M Winnik, Takahiro Sato (Japan)

- 7C07 Synthesis of amphiphilic triblock copolymers with liquid crystalline middle block for nanotemplate film
11:20 Shingo Hadano, Kyohei Okumura, Yosuke Niko, Shigeru Watanabe (Japan)
- 7C08 Thermo-responsive structural transition of nano-structured polyion complexes using ABA- and AB-type block copolymers
11:40 Takumi Egashira, Takeshi Mori, Yoshiki Katayama, Akihiro Kishimura (Japan)
- 7C09IL Polymer Chemistry in Coordination Nanochannels
12:00 Takashi Uemura (Japan)
- 7C10IL Spontaneous Ultralong-Range Structural Ordering and Unique Phase Behaviors of Triphenylene-Based Molecular Assemblies
14:00 Takanori Fukushima (Japan)
- 7C11 Supramolecular ionic liquid gel using host-guest inclusion complexes with cyclodextrin
14:30 Garry Sinawang, Yuichiro Kobayashi, Motofumi Osaki, Yoshinori Takashima, Hiroyasu Yamaguchi, Harada Akira (Japan)
- 7C12 Development of Superhydrophobic Materials Composed of Cyclodextrin Derivative
14:50 Yuji Sugiyama, Hiroaki Yoshida (Japan)
- 7C13 Me18- α -CD and Other Host Matrices for the Enhancement of the Seebeck Coefficient of Supramolecular Thermocells
15:10 Yimin Liang, Joseph (Ka Ho) Hui, Tepei Yamada, Nobuo Kimizuka (Japan)
- 7C14 Original and Efficient Synthesis of Glycopolymers in Interactions with Cellulose Nanocrystals or Pathogenic Bacterial Lectins
15:30 Francois Portier, Jing Chen, Sami Halila (France)
- 7C15 Morphological study of self-assembled block copolymers including a rigid hydrogen bonding motif at the block junction
15:50 Kazuki Fukushima, Nozomi Fujimura, Kodai Matsuzaki, Shunsuke Sato, Masashi Oji, Shunta Hakozaiki, Moriya Kikuchi, Seigo Kawaguchi (Japan)
- 7C16 Alkyl- π Optoelectronically-Active Molecular Liquids
16:30 Takashi Nakanishi (Japan)
- 7C17IL High Crystallinity Graphite Ultrathin Films from Spin Coating Polymers
16:30 Yasushi Soneda (Japan)

Room D

Wednesday, December 5, 2018

T-5: Polymer Informatics

- 5D01KL <under consideration>
12:30 J. De Pablo (U.S.A.)
- 5D02IL Challenge to Soft Material Development by Computer Simulation and Informatics
13:10 Takeshi Aoyagi (Japan)
- 5D03 SCF calculation of polymer composite materials
13:40 Takashi Honda (Japan)
- 5D04KL Accelerated Materials Discovery Powered by Machine Learning
14:00 Ryo Yoshida (Japan)
- 5D05IL Integrated data-driven approaches in materials science and engineering
14:40 Masahiko Demura (Japan)
- 5D06IL Accelerating materials science research with data mining
15:10 Hieu Chi Dam, T. L. Pham, N. D. Nguyen (Japan)
- 5D07 Alignment and morphology inductions of liquid crystalline polymer films commanded from the free surface
15:40 Takahiro Seki, Mitsuo Hara, Shusaku Nagano (Japan)
- 5D08 Local Structure Analysis and Visualization for Liquid Crystals
16:00 Hideo Doi, Kenji Tagashira, Kazuaki Takahashi, Jun-Ichi Fukuda, Takeshi Aoyagi (Japan)
- 5D09IL Data-driven approaches applied in the field of polyolefin
16:20 Toshiaki Taniike (Japan)
- 5D10 Machine learning study on morphologies in block copolymer systems
16:50 Sadato Yamanaka, Takeshi Aoyagi (Japan)

5D11 Computer-aided polymer design using COSMO-RS
17:10 [Nick Donnelly Austin](#) (Netherlands)

Thursday, December 6, 2018

T-5: Polymer Informatics

- 6D01IL Design of Inorganic Materials with Strong Adhesion to Resins by
9:00 Use of Materials Informatics
[Tomio Iwasaki](#) (Japan)
- 6D02 Molecular Dynamic Simulation of Curing Process for Epoxy Resin
9:30 Using ReaxFF with fbMC Method
[Yuta Naito](#), Masaaki Nishikawa, Naoki Matsuda, Masaki Hojo
(Japan)
- 6D03IL Odor component analysis and de novo molecule generation by
9:50 machine learning
[Ryo Tamura](#) (Japan)
- 6D04IL Analysis of the bridge chain network in sphere domain of ABA
10:20 triblock copolymer
[Hiroshi Morita](#), Ayano Miyamoto (Japan)
- 6D05IL Polymer Informatics: A review on materials informatics for
10:50 polymeric materials
[Masanobu Naito](#) (Japan)

T-7: Biomedical Polymers and Nanomedicines

- 6D06 Studies on Thermoresponsive Properties and Biocompatibility of
11:20 Boron-Containing Poly(N-isopropylacrylamide) Nanomicelle
[Shuichiro Yoneoka](#), Yasuhiro Nakagawa, Mitsuhiro Ebara,
Takehiko Tsukahara (Japan)
- 6D07 Aqueous Two Phase System-Assisted Purification of Proteins
11:40 Fused with a Thermoresponsive Polymer-Binding Peptide
[Seigo Suzuki](#), Taisuke Kojima, Toshiki Sawada, Shuichi
Takayama, Takeshi Serizawa (Japan)
- 6D08IL Design of Hydrogels for Biomedical Applications
12:00 [Takamasa Sakai](#) (Japan)
- 6D09KL Multimeric Amphipathic Alpha Helix Peptides for Efficient Cell
14:00 Penetration
[Yan Lee](#) (Korea)
- 6D10 Induction of potent cytotoxic T-lymphocyte activity using two
14:40 types of polysaccharides
[Shinichi Mochizuki](#), Atsushi Moritaka, Kazuo Sakurai (Japan)
- 6D11 Infiltrate Ovarian Cancer with Raft-targeted Self-assembly to
15:00 Overcome Tumor Heterogeneity
Guanying Li, Dingze Mang, Xunwu Hu, Sachie Yukawa, Toshiachi
Mochizuki, Sona Roy, [Ye Zhang](#) (Japan)
- 6D12 Tumor cell-targeting glutamine-derived polymer that can interact
15:20 with high density glutamine transporter based on aberrant
glutamine metabolism.
[Yuto Honda](#), Naoki Yamada, Hiroyasu Takemoto, Takahiro
Nomoto, Makoto Matsui, Keishiro Tomoda, Nobuhiro Nishiyama
(Japan)
- 6D13 Thermoresponsive transformable core-corona type particles for
15:40 controlled cellular uptake
[Akihiko Kikuchi](#), Yota Kosukegawa, Syuuhei Komatsu, Masatoshi
Kawase, Taka-Aki Ash, Ryo Ishihara (Japan)
- 6D14 Metabolism-controlled boron delivery systems composed of
16:00 boronophenylalanine and functional polymers for neutron capture
therapy
[Takahiro Nomoto](#), Yukiya Inoue, Ying Yao, Minoru Suzuki, Kaito
Kanamori, Hiroyasu Takemoto, Makoto Matsui, Keishiro Tomoda,
Nobuhiro Nishiyama (Japan)
- 6D15 Utilization of dynamic response of polyion complex for enhancing
16:20 cell-communication function of nanomedicine
[Hiroaki Matsuba](#), Ikuhiko Nakase, Takeshi Mori, Yoshiki
Katayama, Akihiro Kishimura (Japan)
- 6D16 Pulsatile drug release from electrospun biocompatible polymers
16:40 [Abdessamad Kaassis](#), Gareth Williams, Nicholas Chatterton (U.K.)
- 6D17IL Polymer Materials for Medical Devices
17:00 [Tetsuro Kawanishi](#) (Japan)

Friday, December 7, 2018

T-7: Biomedical Polymers and Nanomedicines

- 7D01KL Poly(3,4-ethylenedioxythiophene) Polymer Composite
9:00 Bioelectrodes with Design-controlled Chemical and Topographical
Cues for Manipulating Cellular Behaviors of Neuronal Cells
Nien-Chen Tsai, Jia-Wei She, Jih-Guang Wu, Peilin Chen, Yu-
Sheng Hsiao, [Jiasheng Yu](#) (Taiwan)
- 7D02IL Ionic Effect and Surface Potential on Antifouling Property of
9:40 PEDOT Functionalized with Oligo(Ethylene Glycol) and
Phosphorylcholine
Yue Chen, [Shyh-Chyang Luo](#) (Taiwan)
- 7D03 Development of Polymer Thin Films (Nanosheets) Technology for
10:10 Biological Information Monitoring
[Shinji Takeoka](#) (Japan)
- 7D04 Design of Dual Stimuli-Responsive Polymers that Undergo Sol-Gel
10:30 Phase Transition and Their Applications as Cell Scaffolds.
[Yosuke Natsume](#), Kohei Okuma, Akifumi Kawamura, Takashi
Miyata (Japan)
- 7D05 Influence of Laden Cells on Crosslinking Networks of
10:50 Phospholipid Polymer Hydrogel
[Ren Zhang](#), Yuuki Inoue, Tomohiro Konno, Kazuhiko Ishihara
(Japan)
- 7D06 Evaluation of Adhesive Interaction of Polymer Brushes Containing
11:10 Phosphorylchlorine and Choline Phosphate Groups
[Motoyasu Kobayashi](#), Saori Mihara, Kazuo Yamaguchi (Japan)
- 7D07 Existential state of water molecules in biomaterials
11:30 [Shin Yagihara](#), Yuko Maruyama, Hironobu Saito, Tsubasa
Kawaguchi, Kohei Shoji, Rio Kita, Naoki Shinyashiki, Minoru
Fukuzaki (Japan)
- 7D08 Observation of Dynamic Behavior on Cultured Cells by Dielectric
11:50 Spectroscopy
[Yuko Maruyama](#), Tsuyoshi Aoyama, Rio Kita, Naoki Shinyashiki,
Shin Yagihara (Japan)
- 7D09 Estimation of Biocompatibility and Equilibrium Water Content for
12:10 Poly(meth)acrylate with Molecular Dynamics Simulation
[An-Tsung Kuo](#), Shingo Urata, Ryohei Koguchi, Kyoko Yamamoto,
Masaru Tanaka (Japan)
- 7D10 G-quadruplex-functionalized Gold Nanoparticles as a New
14:00 Colorimetric pH Sensor
[Surachada Chuaychob](#), Masahiro Fujita, Mizuo Maeda (Japan)
- 7D11 Novel Polymer Materials Exhibiting Photo-Induced Aqueous
14:20 Dissolution
[Kimio Sumaru](#), Toshiyuki Takagi, Kana Morishita, Toshiyuki
Kanamori (Japan)
- 7D12 Solid Poly(2-methoxyethyl acrylate) with Changed Viscosity,
14:40 Hydration Structure and Protein Adsorption
[Katja Jankova \(Atanasova\)](#), Shingo Kobayashi, Daiki Murakami,
Masaru Tanaka (Japan)
- 7D13 Particle Preparation by Chitosan Derivatives Bearing Long Alkyl
15:00 and Hydrophilic Substituents
[Ryo Kawatani](#), Suwabun Chirachanchai, Hiroharu Ajiro (Japan)
- 7D14 Biodegradable injectable polymer systems exhibiting temperature-
15:20 responsive covalent gelation for medical application
[Yuichi Ohya](#), Yuta Yoshizaki, Takuya Nagata, Hiroki Takai,
Yasuyuki Yoshida, Kazuyuki Takata, Akinori Kuzuya (Japan)
- 7D15 Colorimetric Detection of Anticancer Drug-Mediated DNA
15:40 Cleavage Pathway Using Double-Stranded DNA-Functionalized
Gold Nanoparticles
[Yoshitsugu Akiyama](#), Kazunori Kimura, Tohru Takarada, Mizuo
Maeda, Akihiko Kikuchi (Japan)
- 7D16 Regulation of pluripotency through decoupling surface and bulk
16:00 effects using double network hydrogels
[Martin Frauenlob](#), Honglei Guo, Daniel R. King, Seiichiro Ishihara,
Masumi Tsuda, Takayuki Kurokawa, Hisashi Haga, Shinya Tanaka,
Jian P. Gong (Japan)

Room E

Wednesday, December 5, 2018

T-7: Biomedical Polymers and Nanomedicines

- 5E01KL Self-assembly Systems of Glycol-polymers for Biomedical Applications
12:30 Kazunari Akiyoshi (Japan)
- 5E02 Nitroxide radical containing nanoparticle as a potential candidate for redox directed breast cancer therapeutics
13:10 Babita Shashni, Yukio Nagasaki (Japan)
- 5E03 Ultra-small polymeric nanocarriers for cancer-targeted oligonucleotide delivery
13:30 Kanjiro Miyata, Sumiyo Watanabe, Kotaro Hayashi, Kazuko Toh, Hyun Jin Kim, Kazunori Kataoka (Japan)
- 5E04 Ethylenediamine-based polyzwitterion that becomes cationic at tumorous pH for effective tumor accumulation of the coated nanomaterials
13:50 Hiroyasu Takemoto, Abdul-Hackam Ranneh, Takahiro Nomoto, Makoto Matsui, Nobuhiro Nishiyama (Japan)
- 5E05 Development of poly(amino acid)-based carrier that loads gemcitabine via reversible linkage and its evaluation using pancreatic cancer model
14:10 Xiaomeng Liu, Hiroyasu Takemoto, Takahiro Nomoto, Makoto Matsui, Keishiro Tomoda, Nobuhiro Nishiyama (Japan)
- 5E06 siRNA embedded GroEL nanotube as ATP responsive delivery system.
14:30 Hashim Pk, Seunghyun Sim, Takuzo Aida (Japan)
- 5E07 Effect of poly(ethylene glycol) molecular weight for overcoming liver sinusoidal barrier towards prolonged circulation activity of polyplex micelles
14:50 Anjanevulu Dirisala, Kensuke Osada, Kazuko Toh, Theofilus A. Tockary, Satoshi Uchida, Horacio Cabral, Kazunori Kataoka (Japan)
- 5E08 A strategy for synthesizing polymer-trypsin conjugates by using UCST-type thermoresponsive system
15:10 Yasushi Sasai, Masao Morita, Naoki Doi, Yukinori Yamauchi, Masayuki Kuzuya, Shin-Ichi Kondo (Japan)

T-6: Polymers in Green Chemistry

- 5E09KL Toward the applications of cellulose nanofibers materials for automotive parts
15:40 Hirovuki Yano (Japan)
- 5E10 Cellulose nanofiber cryogel as oil absorbent/decomposition carrier
16:20 Takashi Nishino, Tatsuya Sato, Takuya Matsumoto (Japan)
- 5E11IL Next-Generation Biobased Polymers by Controlling Macromolecular Architectures
16:40 Chuanbing Tang (U.S.A.)
- 5E12 Degradable Hyperbranched Polymers for Green Adhesive Materials
17:10 Eriko Sato, Yoji Yamashita, Yuta Koda, Hideo Horibe (Japan)

Thursday, December 6, 2018

T-6: Polymers in Green Chemistry

- 6E01 Preparation of lignocellulose nanofibers (LCNFs) from sunflower stalks (SFS) using ultrasound-assisted mild sulfuric acid ball milling
9:00 Chinomso Ewulonu, Liu Xuran, Min Wu, Yong Huang (China)
- 6E02 Water and UV Resistant BMIMCl Compatibilized Cellulose/Lignin Composite Film
9:20 Muhammad Abdul Haq, Satoshi Idenoue, Kazuya Yamamoto, Akihiko Takada, Jun-Ichi Kadokawa (Japan)
- 6E03 Development of Rigid Rod-like Polymers from Naturally Occurring myo-Inositol
9:40 Atsushi Sudo, Sonomi Kirimura, Shusuke Okamoto, Yu Matsumoto, Kimikatsu Ikeya (Japan)
- 6E04 Synthesis of Bio-based Polymers from Sugar Derived D-Glucaric acid
10:00 Yuxin Wu, Yukiko Enomoto, Hisaharu Masaki, Tadahisa Iwata (Japan)

- 6E05 *In vitro* enzymatic polymerization of α -glucans using recombinant GtfJ: its structure and application to environmental friendly materials
10:20 Satoshi Kimura, Sakarin Puanglek, Mayumi Uwagwa, Yugo Komiya, Tadahisa Iwata (Japan)
- 6E06IL Molecular design and chemoenzymatic synthesis of structural polypeptides
10:40 Keiji Numata (Japan)
- 6E07 Development of functional polypeptides for material delivery into plants
11:10 Kousuke Tsuchiya, Yu Miyagi, Takaaki Miyamoto, Seiya Fujita, Keiji Numata (Japan)
- 6E08 Raman probe's with different cellular-uptake mechanisms for plants
11:30 Yu Miyagi, Keiko Midorikawa, Kousuke Tsuchiya, Keiji Numata (Japan)
- 6E09KL Synthesis and applications of cyanophycin
11:50 Alexander Steinbüchel (Germany)
- 6E10 Synthesis of Polymers Consisting of Nylon-Containing Tripeptide Motifs by Chemoenzymatic Polymerization for Thermal Processability
14:00 Prashant Gopal Gudeangadi, Kousuke Tsuchiya, Keiji Numata (Japan)
- 6E11 Chemoenzymatic synthesis of polypeptide-based elastomers
14:20 Hiromitsu Sogawa, Keiji Numata (Japan)
- 6E12IL New strategies for polymer synthesis and functionalization: from alternating radical ring-opening polymerization to synthetic upcycling of polyacrylates
14:40 Tomohiro Kubo, Megan R. Hill, Charles P. Easterling, Brent S. Sumerlin (U.S.A.)
- 6E13IL Controlled/Living Polymerization of Renewable Vinyl Monomers for Novel Functional Bio-Based Polymers
15:10 Kotaro Satoh (Japan)
- 6E14 Synthesis, properties, and degradabilities of aliphatic-aromatic copolyesters with regular sequence
15:40 Yuushou Nakayama, Wataru Yagumo, Yuji Kusu, Keitaro Fukumoto, Ryo Tanaka, Takeshi Shiono, Chikara Tsutsumi, Norioki Kawasaki, Naoko Yamano, Atsuyoshi Nakayama (Japan)
- 6E15 Synthesis of biobased building blocks from cashew nutshell liquid: a chemical platform approach for polymer synthesis
16:00 Sylvain Caillol (France)
- 6E16 Eugenol derivatives as bio-based functional coatings
16:20 Hirohmi Watanabe, Mariko Takahashi, Hideyuki Kihara, Masaru Yoshida (Japan)
- 6E17IL Highly Functional Cellulose-based Bioplastics for Use in Durable Products
16:40 Masatoshi Iji, Makoto M. Watanabe (Japan)
- 6E18 Solvent-Free Mechanochemical Polymer Synthesis
17:10 Jeung Gon Kim (Korea)

Friday, December 7, 2018

T-6: Polymers in Green Chemistry

- 7E01KL Sulfur Utilization for the Sustainable Future
9:00 Kookheon Char (Korea)
- 7E02 Supramolecular polymeric materials functionalized by host-guest interactions and its mechanical properties
9:40 Yoshinori Takashima, Hiroyasu Yamaguchi, Akira Harada (Japan)
- 7E03 Adaptive Material Design for Smart Marine Coatings
10:00 Takeo Suga, Yusuke Sahashi, Hirovuki Nishide (Japan)
- 7E04IL Functional polymers with dynamic bonds
10:20 Naoko Yoshie (Japan)
- 7E05 Temperature-responsive biodegradable injectable polymer hydrogels for adipose derived stem cell delivery to ischemic heart tissues
10:50 Yuta Yoshizaki, Hiroki Takai, Soichiro Fujiwara, Masaaki Ii, Hiroaki Uchida, Shintaro Nemoto, Akinori Kuzuya, Yuichi Ohya (Japan)
- 7E06 Accelerated Cell Growth and Lipid Accumulation of Microalgal Aggregates Encapsulated in Polymeric Hydrogel
11:10 Toru Yoshitomi, Keitaro Yoshimoto (Japan)

- 7E07 11:30 Optimizing mix proportion and properties of bioactive film incorporated citric acid, glycerol and zinc oxide
Artjima Ounkaew (Thailand)
- 7E08 11:50 Nanofiltration membranes synthesized via nanoparticle incorporated interfacial polymerization for improving separation performances
Detao Qin, Guoji Huang, Handong Jiang, Behnam Ghalei, Easan Sivaniah (Japan)
- 7E09 12:10 Influence of High Pressure Hydrogen Gas on Crystalline Polymers
Fumitoshi Kaneko, Keiko Ohyama, Hirokata Fujiwara, Shin Nishimura (Japan)
- 7E10 12:30 Practical and Advanced Material Recycle Method of Waste Plastics
Natsumi Yamasaki, Tetsuyoshi Michiue, Keitaro Yamashita, Patchiya Phanthong, Ryoko Nakano, Hiroshi Sekiguchi, Shigeru Yao (Japan)

T-1: Synthetic Polymer Chemistry

- 7E11 14:40 Glycidyl Triazolyl Polymers: Facile Synthesis of Functionalized Polyethylene Glycol
Taichi Ikeda (Japan)
- 7E12 15:00 Novel Functionalized Polyurethane
Nikhil K. Singha, Prasanta Kumar Behera (India)
- 7E13 15:20 Functionalization of natural rubber via oxidative degradation and its mechanical properties
Kanvarat Mantala, Pranee Phinyocheep (Thailand)
- 7E14 15:40 Effect of persulfate as oxidizing agent on natural rubber and the property of modified rubber
Viyada Wachteng, Pranee Phinyocheep (Thailand)

Room F

Wednesday, December 5, 2018

T-4: Polymers for Optics, Electronics and Energy

- 5F01KL 12:30 *In silico* discovery of emitters and charge transporters for organic LEDs
Hironori Kaji (Japan)
- 5F02IL 13:10 New trends in light-emitting electrochemical cells
Rubén D. Costa (Spain)
- 5F03 13:40 Pyrene-Containing Polyimines: Synthesis, Characterization and Application in Polymer Light-emitting Diodes
Yu-Chao Hsieh, Yu-Lun Chang, Yun Chen (Taiwan)
- 5F04 14:00 Highly Efficient Near-Infrared-Emissive Conjugated Copolymers Based on a Nitrogen-Nitrogen Double Bond
Masayuki Gon, Kazuo Tanaka, Chujo Yoshiki (Japan)
- 5F05 14:20 Synthesis and Optoelectronic Applications of Polyimines Containing 1,3,4-Oxadiazolyl or 1,2,4-Triazolyl Groups in Main Chain
Yu-Lin Jheng, Sheng-Fong Lin, Yun Chen (Taiwan)
- 5F06 14:40 Evaluation of Fused Boron Ketoiminates for Development of Highly-Efficient Emission and Their Thermochromic Property
Kazumasa Suenaga, Kyoya Uemura, Kazuo Tanaka, Yoshiki Chujo (Japan)
- 5F07IL 15:00 Polyphenylene Ionomers as Fuel Cell Membranes
Kenji Miyatake, Junpei Miyake (Japan)
- 5F08 15:30 An Optimum Method to Prepare Crosslinked Sulfonated Poly (ether ketone)s by Acid-Catalyzed Reaction for Low Temperature PEM Fuel Cell Application
Jyh-Chien Chen, S.-W. Lee (Taiwan)
- 5F09 15:50 Highly active Pt-free fuel cell catalysts prepared by pyrolyzing polyimide nano-particles
Yuta Nabae, Shinsuke Nagata, Tsutomu Aoki, Teruaki Hayakawa (Japan)
- 5F10 16:10 Room Temperature Operation of Lithium Ion Batteries Using Liquid-Crystalline Electrolytes
Eiji Hosono, Taira Onuma, Motokuni Takenouchi, Junji Sakuda, Satoshi Kajiyama, Masafumi Yoshio, Takashi Kato (Japan)

- 5F11 16:30 Polymer Electrolytes Based on Poly(VdF-co-HFP)/Ionic Liquid/Carbonate Membranes for High-Performance Lithium-Ion Batteries
Yu-Chao Tseng, You Wu, Jeng-Shiung Jan, Sheng-Shu Hou (Taiwan)
- 5F12 16:50 Exploration of High-performance Organic Anode through Materials-Informatics Approach
Hirofumi Numazawa, Kosuke Sato, Hiroaki Imai, Yuya Oaki (Japan)

Thursday, December 6, 2018

T-4: Polymers for Optics, Electronics and Energy

- 6F01KL 9:00 Emerging Applications for Polymers in Membrane Technology
Sandra Kentish (Australia)
- 6F02IL 9:40 CO₂ Management by Polymer Membranes Containing Nanoparticles with Gas Permeable Nano-space
Hirovoshi Kawakami (Japan)
- 6F03 10:10 Carbon capture capable membranes through tuning of mixed matrix membranes
Behnam Ghalei, Kento Sakurai, Yosuke Kinoshita, Kazuki Wakimoto, Ali Pournaghshband Isfahani, Easan Sivaniah (Japan)
- 6F04 10:30 Development of Advanced Reverse Osmosis Membrane
Yoshiki Nishiguchi, Hiroki Minehara, Harutoki Shimura, Takafumi Ogawa, Takao Sasaki, Masahiro Kimura (Japan)
- 6F05 10:50 A new lithographic platform for high-resolution, large area structural color printing and holographic information storage
Masateru Itoh, Andrew Gibbons, Sivaniah Easan (Japan)
- 6F06 11:10 Relaxation of internal stress in UV-cured materials by using exchange reactions between disulfide bonds
Masahiro Furutani, Kazuki Okuma, Koji Arimitsu (Japan)
- 6F07 11:30 Photopatterning of PEDOT derivatives by using an acid amplifier generating polystyrenesulfonic acid
Eishiro Hiraga, Masahiro Furutani, Koji Arimitsu (Japan)
- 6F08 11:50 Cellulosic/polymer liquid crystalline composites expressing stress-induced color change as well as circular dichroic inversion
Kazuma Miyagi, Yoshikuni Teramoto (Japan)
- 6F09 12:10 Controlled Device Performance of the OFET Memory Using a Metallophthalocyanine-Cored Star-Shaped Polymer
Junko Aimi, Masayuki Takeuchi, Chien-Chung Shih, Wen-Chang Chen (Japan)
- 6F10KL 14:00 Precise Control of Structural Order and Energetics in π -Conjugated Polymers Toward Highly Efficient Organic Photovoltaics
Itaru Osaka (Japan)
- 6F11IL 14:40 High Performance Organic/Perovskite Solar Cells by Employing Novel Multi-Role Interfacial and Photoactive Materials
Sung-Ho Jin (Korea)
- 6F12 15:10 Efficient Ternary Blend Solar Cells With a Very Small Amount of Third Component
Masahiko Saito, Itaru Osaka (Japan)
- 6F13 15:30 All-conjugated block copolymers comprising of P3HT and PTB7-Th
Masaki Horie, Sune-Chen Hua (Taiwan)
- 6F14 15:50 Electronic State of Pentaazaphenylene Based π -Conjugated System
Hirovuki Watanabe, Kazuo Tanaka, Yoshiki Chujo (Japan)
- 6F15 16:10 Thermoelectric properties of conducting polymers with controlled doping levels
Ichiro Imae, Ryosuke Akazawa, Mengyan Shi, Yutaka Harima (Japan)
- 6F16 16:30 Impact of isomeric structure on electronic and charge transport properties in bithiophenedione-based semiconducting polymers
Tsubasa Mikie, Aiko Fukazawa, Shigehiro Yamaguchi, Itaru Osaka (Japan)
- 6F17 16:50 Thermoelectric Properties of Single-walled Carbon Nanotube Sheet with Different Metallicity
Tsuyohiko Fujigaya, Borah Angana, Wenxin Huang (Japan)

Friday, December 7, 2018

T-4: Polymers for Optics, Electronics and Energy

- 7F01IL Molecular self-doping in conjugated oligomers single crystals
9:00 Sergei Ponomarenko (Russia)
- 7F02 Construction and Properties Evaluation of Conjugated Polymer Systems Based on Fused Azomethine-Boron Complexes
9:30 Shunsuke Ohtani, Masayuki Gon, Kazuo Tanaka, Yoshiki Chujo (Japan)
- 7F03 Synthesis of Two-dimensional Conductive-Polymer Nanosheets through Crystal Controlled Polymerization
9:50 Kosuke Sato, Hiroaki Imai, Yuya Oaki (Japan)
- 7F04 Electrically detected magnetic resonance of π -conjugated polymers
10:10 Naoki Asakawa, Kunito Fukuda (Japan)

T-2: Polymer Physics

- 7F05IL Viscoelastic Properties and Molecular Dynamics of Cellulose Derivatives as Semiflexible Polymers
10:30 Tadashi Inoue, Yuki Okada, Ken Terao, Takahiro Sato (Japan)
- 7F06 Anisotropic toughness of DCC-Cellulose hydrogel with highly aligned fibrous structure
11:00 Yunzhou Guo, Md. Tariful Islam Mredha, Tasuku Nakajima, Takayuki Kurokawa, Jian Ping Gong (Japan)
- 7F07 Effects of Permeability Conditions on Time-Dependent Fracture of Hydrogels
11:20 Yu-Yun Lin, Chen-Hsueh Yang (Taiwan)
- 7F08 Fracture and Toughening Mechanisms in Slide-Ring gels
11:40 Chang Liu, Lan Jiang, Koichi Mayumi, Hideaki Yokoyama, Kohzo Ito (Japan)
- 7F10 A Novel Strategy to Function Polymer Surfaces Based on Non-solvent-induced Swelling
14:00 Hisao Matsuno, Toyooki Hirata, Hidenobu Taneda, Norifumi L. Yamada, Yasuhisa Minagawa, Keiji Tanaka (Japan)
- 7F11 Swelling Behavior of Gels in Combination of Plural Monomers: Effect of Monomer/Crosslinker Sequence on Swelling Properties
14:20 Shohei Ida, Miki Morimura, Daiki Nishisako, Shokyoku Kanaoka (Japan)
- 7F12 Pyridine-ligands isomer effects on physical properties for metallo-supramolecular polyesters utilizing pyridine-metal coordination
14:40 Keisuke Shibata, Mikihiro Hayashi, Akinori Takasu (Japan)
- 7F13 Multi-Chain Slip-Spring Model for Entangled Polymers
15:00 Yuichi Masubuchi, Takashi Uneyama (Japan)
- 7F14 Effect of Viscoelasticity on the Morphology of Polymer Porous Membrane Formed by Non-Solvent Induced Phase Separation
15:20 Kenji Yoshimoto, Takashi Taniguchi (Japan)
- 7F15 Rheo-Raman spectroscopic studies of the influence of α relaxation process on microscopic deformation behaviors of high-density polyethylene
15:40 Takumitsu Kida, Yusuke Hiejima, Koh-Hei Nitta (Japan)
- 7F16 Analysis of interdiffusion at PVDF and PMMA interface by STEM-EDX/EELS
16:00 Wenyong Dong, Hideki Hakukawa, Yamahira Naohiro, Shin Horiuchi (China)
- 7F17 STEM-EELS analysis of metal-polymer adhesive joint interfaces
16:20 Haruhisa Akiyama, Hideki Hakukawa, Shin Horiuchi (Japan)

Room G

Wednesday, December 5, 2018

T-3: Hybrid Materials

- 5G01KL Biomimetic Mineralization-Inspired Organic/Inorganic Composite Materials
12:30 Takashi Kato (Japan)
- 5G02KL Synthesis of Poly[n]catenanes
13:10 Stuart J. Rowan (U.S.A.)
- 5G03KL Silsesquioxane; A Fascinating Platform for Hybrid Materials with Versatile Applications
13:50 Chang-Sik Ha (Korea)

- 5G04IL Silsesquioxane Cages: Syntheses and Applications
14:30 Yuthichai Ervithayasuporn, S. Chanmungkakulakul, S. Kiatkamjornwong (Thailand)
- 5G05 Necklace-shaped Siloxane Polymers Bearing POSS Cages as a Hot-Melt Adhesive
15:00 Masashi Kunitake, Tsubasa Natsuaki, Naohiro Katsuta, Satoshi Watanabe, Kazuya Suwa, Daisuke Kawaguchi, Keiji Tanaka (Japan)
- 5G06 Beads-On-String-Shaped Poly(azomethine) based on Cage Silsesquioxanes
15:20 Shunichi Fujii, Saori Minami, Kenji Urayama, Yu Suenaga, Hiroyoshi Naito, Hiroaki Imoto, Kensuke Naka (Japan)
- 5G07 Synthesis and Properties of Luminophores-Integrated POSS Having Flexible Side-Chains
15:40 Hayato Narikiyo, Masayuki Gon, Kazuo Tanaka, Yoshiki Chujo (Japan)
- 5G08 Synthesis of Polymeric Silane Coupling Agents Having Two Different Polymerizable Blocks and Their Physical Properties
16:00 Tomomi Hachiken, Sakie Yamauchi, Kiyomi Fuchigami, Kosuke Kaneko, Tomonori Hanasaki (Japan)
- 5G09 Preparation of polysilsesquioxane bearing phosphonic acid anchoring titanium dioxide for self-cleaning film
16:20 Ryohei Hayami, Wataru Nakamoto, Satoru Tsukada, Kazuki Yamamoto, Takahiro Gunji (Japan)
- 5G10 Development of Inorganic/Polymer Composite Film Materials Using Photo-Imaged Polymer Matrices
16:40 Takeshi Sakamoto, Masahiro Suzuki, Takashi Kato (Japan)

Thursday, December 6, 2018

T-3: Hybrid Materials

- 6G01IL Recent studies on the synthesis and new functions of nanocomposite gel: Initiator-free photosynthesis, Clay-silica-PNIPAA ternary system, Large retractive tensile force generation,
9:00 Kazutoshi Haraguchi (Japan)
- 6G02IL New Isomeric Silicones
9:30 Thomas J. Mccarthy, Pei Bian, Yan Cong, Zhaoxia Li, Daniel H. Flagg (U.S.A.)
- 6G03IL [Fe-Fe] Hydrogenase Mimetic Metallopolymers via ATRP: Artificial Enzymes for Water Splitting
10:00 William P. Brezinski, Metin Karayilan, Kayla E. Clary, Keelee C. Mcclary-Petersen, Liye Fu, Krzysztof Matyjaszewski, Dennis H. Evans, Dennis L. Lichtenberger, Richard S. Glass, Jeffrey Pyun (U.S.A.)
- 6G04 Spatiotemporal Control of Self-oscillating Gel by Uniformly Aligned Inorganic Nano Sheets
10:30 Younsoo Kim, Yasuhiro Ishida, Yasuo Ebina, Takayoshi Sasaki, Ryo Yoshida, Takuzo Aida (Korea)
- 6G05 Extremely Tough Soft Composites from Elastomers and Fabrics
10:50 Wei Cui, Daniel R. King, Tao Lin Sun, Liang Chen, Yiwan Huang, Takayuki Nonoyama, Takayuki Kurokawa, Jian Ping Gong (Japan)
- 6G06 Toughness Improvement of Crystallized Poly(lactic acid) by Two-step Melt Blending with Poly(trimethylene terephthalate)
11:10 Katanvu Kultravut, Keiichi Kuboyama, Toshiaki Ougizawa (Japan)
- 6G07 Layered Composites of Polydiacetylene and Organic Polymers with Tunable and High-Sensitive Stimuli-Responsive Color-Change Properties
11:30 Kei Watanabe, Hiroaki Imai, Yuya Oaki (Japan)
- 6G08 Tailoring the electrically conductive network in injection-molded polymer-carbon nanotube composites at low filler contents
11:50 Thi Thanh Binh Nguyen, Seisuke Ata, Takeo Yamada, Takahiro Morimoto, Toshiya Okazaki, Kenji Hata (Japan)
- 6G09 Development of Efficient Recovery Material for Precious Metals and Its Application to Organic-Inorganic Hybrid Materials
12:10 Daisuke Nagai, Takeshi Yamanobe (Japan)
- 6G10IL Electroactive Polymer Particle – Ceramic Hybrid Bionanocomposite
15:20 S. Fauziah S. Draman, Rusli Daik, Said M. El-Sheikh, Famiza A. Latif (Malaysia)

- 6G11 Preparation of Functional Organic and Inorganic Hybrid Materials by Biom mineralization-Inspired Methods
15:50 David Kuo, Satoshi Kajiyama, Takashi Kato (Japan)
- 6G12 Construction and thermophysical characterization of hierarchically assembled structures composed of liquid crystalline filamentous viruses
16:10 Toshiki Sawada, Naoki Ueda, Yuta Murata, Hironori Marubayashi, Shuichi Nojima, Junko Morikawa, Takeshi Serizawa (Japan)
- 6G13 Synthesis of Titanium Phosphonate Cluster as a Precursor for Organic-Inorganic Hybrid Materials
16:30 Takahiro Gunji, Ryohei Hayami, Kazuki Yamamoto (Japan)
- 6G14 Porous structure of polymer monolith prepared by hydrolysis degradation of PLLA/PMMA blends
16:50 Tomoko Shirahase, Shuichi Akasaka, Shigeo Asai (Japan)
- 6G15 Fabrication of Superhydrophobic Coating of Epoxy/Cashew Nut Shell Liquid Composites Reinforced with Flower-Like Zinc Oxide for Oil-Water Separation
17:10 Narabeth Lorwanishpaisarn, Pornnapa Kasemsiri (Thailand)

Friday, December 7, 2018

T-3: Hybrid Materials

- 7G01 Mechanical joint efficiency of orthotropic CFRTP plate joint fastened by steel bolts - Variation of observed local energy release rate around hole-
9:00 Wataru Shioya, Kiyotaka Obunai, Kazuya Okubo, Takeshi Ishikawa (Japan)
- 7G02IL New Hybrid Materials Based on Electron-Deficient Borane Polymers
9:20 Frieder Jaekle (U.S.A.)
- 7G03IL Element-Bridged Biaryls as Building Units of Conjugated Materials
9:50 Joji Ohshita (Japan)
- 7G04 Practical Syntheses and Properties of Luminescent Arsenic Element Blocks
10:20 Hiroaki Imoto, Kensuke Naka (Japan)
- 7G05 Synthesis of Germole-containing-p-conjugated Polymers via Tellurium-Lithium Exchange Reaction of Tellurophene-containing Polymers
10:40 Feng Zheng, Hiroki Nishiyama, Shinsuke Inagi, Ikuyoshi Tomita (China)
- 7G06 A Facile and Quick Preparation of Initiator Layers for Surface-Initiated ATRP toward Large-Area Fabrication of Polymer Brushes in Air
11:00 Tomoya Sato, Roland Hoenes, Chihiro Urata, Atsushi Hozumi (Japan)
- 7G07 Observation of polyethylene lamella layer on radiation grafted materials
11:20 Natsuki Hayashi, Masaaki Omichi, Noriaki Seko (Japan)
- 7G08 Irrefragible Polyacrylamide Hybrid Hydrogels Prepared Using Cyclotetrasiloxane and POSS as Cross-linkers
11:40 Yoshiro Kaneko, Makoto Yanagie (Japan)
- 7G09 Surface Shield Effects of a Plasma-Polymerized Hybrid Film "Nano-suits" of Amphiphilic Molecules and Inorganic Compounds
12:00 Nanami Sawayama, Shingo Ito, Daisuke Ishii (Japan)
- 7G10IL Lanthanide coordination polymers with strong luminescent and photo-functional properties
14:00 Yasuchika Hasegawa (Japan)
- 7G11IL Development of Stimuli-Responsive Luminescent Polymers Containing Flexible Boron "Element-Blocks"
14:30 Kazuo Tanaka (Japan)
- 7G12IL Controlled Connection of Cage Siloxanes with Si-OH Groups
15:00 Atsushi Shimojima (Japan)
- 7G13 Facile preparation and its application of biomimetic bubble coating
15:30 Masanobu Naito (Japan)
- 7G14 New photonic materials by Mie resonances
15:50 Yui Naoi, Yukikazu Takeoka, Takahiro Seki (Japan)
- 7G15 Electrophoretic Deposition (EPD) of Non-Ionic Polymers
16:10 Ken Kimizu, Akinori Takasu (Japan)

- 7G16 Synthesis of PEDOT:Pt Hybrid Fibers by Bipolar Electropolymerization
16:30 Shinsuke Inagi, Yuki Koizumi, Hiroki Nishiyama, Ikuyoshi Tomita (Japan)

Room P

Wednesday, December 5, 2018

T-2: Polymer Physics

- 5P-T2 Thermodynamic and Kinetic Analysis of Selective Induced I Crystal of Poly(vinylidene difluoride) via Melt-Blending of Poly (methyl methacrylate)s
-001c Yuichi Fujioka, Yuta Koda, Eriko Sato, Hideo Horibe (Japan)
- 5P-T2 Rheo-Raman spectroscopic studies of microscopic deformation behaviors under uniaxial stretching of high-density polyethylene solids
-002d Takumitsu Kida, Yusuke Hiejima, Koh-Hei Nitta (Japan)
- 5P-T2 A rheo-Raman study on thermal re-organization of microscopic morphology in HDPE.
-003c Misato Nabata, Takumitsu Kida, Koh-Hei Nitta (Japan)
- 5P-T2 Investigation of visualization of inter-chain hydrogen bonding formed in Nylon 6 crystal structure
-004d Miho Nagao, Junki Yamamoto, Kenichi Kato, Masaki Takata, Shinichi Sakurai, Sono Sasaki (Japan)
- 5P-T2 Investigation of an electron density mapping method for linear polymers in the crystal state on the basis of synchrotron powder X-ray diffraction data
-005c Kosei Noso, Miho Nagao, Kenichi Kato, Masaki Takada, Shinichi Sakurai, Sono Sasaki (Japan)
- 5P-T2 Investigation of Preferred Lamellar Orientation in Ultrathin Films of Melt-crystallized Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate)
-006d Toshiteru Nagata, Mami Goda, Hiroyasu Masunaga, Takaaki Hikima, Tomoyasu Hirai, Atsushi Takahara, Shinichi Sakurai, Sono Sasaki (Japan)
- 5P-T2 Studies on Concentration Dependence of a Diluent on Crystallization of Poly (L-lactic Acid)
-007c Diep Pham, Hideaki Takagi, Nobutaka Shimizu, Noriyuki Igarashi, Sono Sasaki, Shinichi Sakurai (Japan)
- 5P-T2 Improvement of Thermal Properties of Poly(lactic acid) Gel by Controlling Crystalline Structure
-008d Takahiro Fukui, Hiroki Ashizawa, Yasuhiro Matsuda, Atsushi Takahara, Shigeru Tasaka (Japan)
- 5P-T2 In-situ Secondary Structure Analysis of Polyaspartates Exhibiting Helix-Sense Inversion by Synchrotron X-ray Scattering
-009c Yuki Orito, Hiroyasu Masunaga, Hidemine Furuya, Akihiro Abe (Japan)
- 5P-T2 Higher-order structure analysis of new sensing fibers.
-010d Rioko Akiyama, Wan-Thing Chiu, Tso-Fu Mark Chang, Tomoko Hashimoto, Naoko Sano, Masato Sone, Hiromichi Kurosu (Japan)
- 5P-T2 Crystallization and melting behaviors of polyoxamide crystals: Nylon-9,2 and Nylon-MOMD,2
-011c Gaku Kono, Makoto Ezumi, Akihiko Toda, Syuichi Maeda, Tomoyuki Nakagawa, Koji Nozaki (Japan)
- 5P-T2 Crystallinity and physical properties of ethylene/vinyl alcohol copolymer film with different compositions
-012d Shusuke Nishida, Takahiko Nakaoki (Japan)
- 5P-T2 Sorption of ethanol from ethanol/water solution by syndiotactic polystyrene
-013c Yusuke Okuda, Takahiko Nakaoki (Japan)
- 5P-T2 Phase Transition of highly drawn Ultrahigh Molecular Weight Polyethylene
-014d Koichiro Nishida, Takahiko Nakaoki, Hideaki Ishihara (Japan)
- 5P-T2 Chemical Evaluation of Stress Concentration in Elastomers Incorporating Fluorescent Flapping Mechanophores
-016d Ryota Kotani, Atsuhiko Osuka, Shohei Saito (Japan)
- 5P-T2 Design of crosslinking structure of amphiphilic gels based on well-controlled synthesis of triblock prepolymers toward novel thermoresponsive materials functioning in air
-017c Miki Morimura, Shohei Ida, Shokyoku Kanaoka (Japan)

- 5P-T2
-018d A network-level analysis of damage in amine-cured epoxy resin degraded by acid
Jonathon (David) Tanks, Masatoshi Kubouchi, Yoshihiko Arao (Japan)
- 5P-T2
-019c Shape memory properties of elastin-containing hydrogels
Ryuta Azumi, Shogo Nobukawa, Katsuhiko Inomata (Japan)
- 5P-T2
-020d Diffusion Behavior of Water Molecules in Hydrogels with Controlled Network Structure
Takeshi Fujiyabu, Xiang Li, Takamasa Sakai (Japan)
- 5P-T2
-021c Thermodynamic analysis of polymer gel elasticity
Yuki Yoshikawa, Takamasa Sakai (Japan)
- 5P-T2
-022d Elucidation of spontaneous phase separation accompanying gelation of hydrophilic polymer
Ikuo Fujinaga, Takamasa Sakai (Japan)
- 5P-T2
-023c Dynamics analysis of Critical clusters by Dynamic Light Scattering
Takako Noritomi, Xiang Li, Takamasa Sakai, Mitsuhiro Shibayama (Japan)
- 5P-T2
-024d Gelation of Amylose by In Situ Neutralization as Observed by Small-Angle X-ray Scattering
Kyoko Yamamoto, Shiho Suzuki, Shinichi Kitamura, Yoshiaki Yuguchi (Japan)
- 5P-T2
-025c Gelation and phase separation of aqueous methylcellulose solution: effects of added organic salts
Motoki Shibata, Taiki Imai, Tsuyoshi Koga, Koji Nishida (Japan)
- 5P-T2
-026d Buckling of polymer blend microgels via phase separation and gelation
Keisuke Koyanagi, Kazue Kudo, Miho Yanagisawa (Japan)
- 5P-T2
-027c Elastic property of single gelatin microgels prepared inside lipid droplets
Atsushi Sakai, Yoshihiro Murayama, Miho Yanagisawa (Japan)
- 5P-T2
-028d Phase transition of poly(acrylic acid) in inorganic salt solutions - the influence of salt concentration and pH
Maria Kupczak, Aleksander Sinek, Anna Mielanczyk, Dorota Neugebauer, Marcin Lemanowicz, Andrzej Gierczycki (Poland)
- 5P-T2
-029c Effect of hydrophobic chain length on structure and dynamic viscoelasticity of micelles of cyclic lipopeptide/cationic surfactant mixtures
Kazuyuki Ito, Eri Tabata, Isamu Akiba (Japan)
- 5P-T2
-030d Micelle formation of amphiphilic cyclic peptide surfactin in aqueous NaCl solution
Saki Izawa, Eri Tabata, Isamu Akiba (Japan)
- 5P-T2
-031c Drug uptake behavior of pH responding micelles formed from a triblock terpolymer
Shotaro Miwa, Rintaro Takahashi, Carsten Rossel, Sakiko Matsumoto, Schacher Felix H., Kazuo Sakurai (Japan)
- 5P-T2
-032d Effect of addition of random-coiled polymers on depletion force between a colloidal particle and a flat plate
Ken-Ichi Amano, Satoshi Furukawa, Naoya Nishi, Tetsuo Sakka (Japan)
- 5P-T2
-033c Molecular conformation of carboxylated schizophyllan after the denaturation from SEC-MALS and SAXS measurements
Kazuto Yoshiba, Yu Tomofuji, Ken Terao, Toshiaki Dobashi, Bjorn E. Christensen (Japan)
- 5P-T2
-034d A Facile Preparation of Cylindrical Particles and Its Application
Wei Li, Toyoko Suzuki, Hideto Minami (Japan)
- 5P-T2
-035c Preparation of Silicone Particles by Click Reaction and Silicone/Polymer Composite Particles by Seeded Polymerization
Ken Mukai, Yuki Fujii, Mitsuyoshi Yamane, Hideto Minami (Japan)
- 5P-T2
-036d Preparation of Functionalized Cellulose Particles
Yuki Fujii, Kaori Imagawa, Taro Omura, Toyoko Suzuki, Hideto Minami (Japan)
- 5P-T2
-037c Development of Polymeric Materials Exhibiting Cooling-induced Dissolution
Hiroshi Mori, Hiroaki Yoshida (Japan)
- 5P-T2
-038d Modification of teflon powder with fluorine -based side chain crystalline block copolymer
Yuta Ushijima, Ryoko Nakano, Hiroshi Sekiguchi, Sho Hirai, Hideaki Obuchi, Shigeru Yao (Japan)
- 5P-T2
-039c Thermo-responsive behavior of pendant fatty acid-containing polymer
Koki Matsubara, Shin-Ichi Yusa (Japan)
- 5P-T2
-040d Controlled collapse of CO₂-responsive liquid marble with polymer powder
Shotaro Yukioka, Syuji Fujii, Yoshinobu Nakamura, Shin-Ichi Yusa (Japan)
- 5P-T2
-041c Thermo-responsive behaviors of oppositely charged diblock copolymers
Yuuki Kawata, Shohei Kozuka, Shin-Ichi Yusa (Japan)
- 5P-T2
-042d Quartz Crystal Microbalance Technique for Analysis of Sol-Gel Transition of Methylcellulose Aqueous
Kenji Yamaoka, Yoshihisa Fujii, Naoya Torikai (Japan)
- 5P-T2
-043c Molecular dynamics simulation of vesicle division
Naohito Urakami, Takehiro Jimbo, Yuka Sakuma, Masayuki Imai (Japan)
- 5P-T2
-044d Effect of intermolecular hydrogen bonding on surface free energies of poly(vinylphenol)/tannic acid composites
Chih-Feng Wang, Chen-Yin Chen, Kuo-Jung Lee (Taiwan)
- 5P-T2
-045c Hydrophobization of polymethacrylate by introducing pentafluorosulfanyl groups into side chains
Yijun Xie, Takuya Matsumoto, Hongo Chizuru, Norifumi L. Yamada, Takashi Nishino (Japan)
- 5P-T2
-046d In-situ observation of thin film formation during vapor deposition polymerization by simultaneous measurement using IR and QCM techniques.
Keita Nonaka, Takaaki Tanaka, Akira Tsuji, Ryosuke Matsubara, Atsushi Kubono (Japan)
- 5P-T2
-047c Analysis of Interfacial Properties of Polymer Thin Films Floating on Water: Effect of Dynamic Polymer Brush
Masayuki Saito, Norifumi Yamada, Kohzo Ito, Hideaki Yokoyama (Japan)
- 5P-T2
-048d Effects of crosslinking on the morphology of polymer brushes near the edge
Shintaro Nakagawa, Kenta Yamaki, Ryoto Yanagisawa, Masahiro Nomura, Naoko Yoshie (Japan)
- 5P-T2
-049c Evaluation of wetting behavior by control of array sequences of biomimetic microfine channel structures
Tarou Yaeo, Daisuke Ishii, Tsubasa Kashima, Koji Muto, Koki Kawai (Japan)
- 5P-T2
-050d Evaluation of anisotropic dynamic wettability of a cuticle structure
Ito Nozomi, Shingo Ito, Daisuke Ishii (Japan)
- 5P-T2
-051c Tackiness and morphology analysis of adhesive materials having a 2,4- diamino-s-triazinyl group
Miho Kosaki (Japan)
- 5P-T2
-052d Structure and Properties of Molecular Weight Gradient Thin Films of Poly(ethylene oxide)
Norikazu Tanaka, Takuya Matsumoto, Takashi Nishino (Japan)
- 5P-T2
-053c Investigation of relationship between generation of adhesion and meniscus formation in micro-sphere and rubber film system
Shoko Mishima, Toshiaki Ougizawa (Japan)
- 5P-T2
-055c Molecular aggregation structure and water repellency of perfluorohexyl side chain polymers with carbamate linker
Yi Liu, Yuji Higaki, Wei Ma, Atsushi Takahara (China)
- 5P-T2
-056d Wetting and Molecular Aggregation States of Poly(sulfobetaine) Brushes in Response to the Interaction of Sulfobetaine Groups with Ions at Aqueous Interface
Tatsunori Sakamaki, Yoshihiro Inutsuka, Norifumi L. Yamada, Yuji Higaki, Atsushi Takahara (Japan)
- 5P-T2
-057c In situ small angle X-ray scattering study on microdomain structure of thermoplastic elastomer under mechanical deformation
Nattanee Dechnarong, Kazutaka Kamitani, Chao-Hung Cheng, Shiori Masuda, Nobuhisa Takayama, Ken Kojio, Atsushi Takahara (Japan)
- 5P-T2
-058d STEM-EDX/EELS analysis for locating the compatibilizers in PLLA/PVDF blends
Naohiro Yamahira, Hideki Hakukawa, Wenyong Dong, Shin Horiuchi, Yongjin Li (Japan)
- 5P-T2
-059c Piezoelectricity of polymer electret
Yifu Tang, Jun Takarada, Masamichi Ando, Yoshiro Tajitsu (Japan)

5P-T2 -060d	Cavitation in Thin Film of Amorphous Polymers from the Static Melt <u>Masato Hashimoto</u> , Tomoko Mizuguchi, Susumu Fujiwara (Japan)	5P-T6 -081c	Effect of ether linkage and pendant methyl group of poly(aliphatic carbonate)s on degradation temperature <u>Masayoshi Honda</u> , Hideki Abe (Japan)
5P-T2 -061c	Influence of bound rubber on physical properties of synthetic rubber <u>Fumiva Hoshino</u> , Ryunosuke Iwabuchi, Hiroki Uehara, Takeshi Yamanobe (Japan)	5P-T6 -082d	Preparation and characterization of network-typed hydrophilic macromolecules from wild plant <u>Yuki Okusako</u> , Kensuke Kobayashi, Mitsuru Aoyagi (Japan)
5P-T2 -062d	Evaluation of physical properties of polylactic acid / modified cyclodextrin complex <u>Hayata Takeda</u> , Daisuke Nagai, Masaru Yoneyama, Hiroki Uehara, Takeshi Yamanobe, Keiko Takahashi (Japan)	5P-T6 -083c	Biosynthesis of Polyester with Phenyl Groups by <i>P. putida</i> . <u>Yuki Tanaka</u> , Takahiko Nakaoki (Japan)
5P-T2 -063c	Stress-optical behavior of amorphous films during sequential bi-axial stretching process Kensuke Nemoto, <u>Wataru Takarada</u> , Takeshi Kikutani (Japan)	5P-T6 -084d	Syntheses and Morphological Studies of Diketopiperazine-Based Polyamides <u>Hongrong Yin</u> , Kenji Takada, Tatsuo Kaneko (Japan)
5P-T2 -064d	Mechanical properties and aggregation state of topology transformed comb-shaped polyurethane bearing soft segment as side chain <u>Daisuke Aoki</u> , Hiroharu Ajiro (Japan)	5P-T6 -085c	Crystallization for PHBV-b-PHB-b-PHBV triblock copolymer biosynthesized by <i>R. eutropha</i> <u>Tomo Komaeda</u> , Takahiko Nakaoki (Japan)
5P-T2 -065c	Physical Property Investigation of Polyester Soft Films Containing Trans-esterification Type Dynamic Cross-links <u>Ryoto Yano</u> , Mikihiko Hayashi, Akinori Takasu (Japan)	5P-T6 -086d	Preparation of temperature-responsive biodegradable shape memory polymer sheets exhibiting stepwise multiple shape-recovery to folded states <u>Kouki Kawagishi</u> , Yuta Yoshizaki, Akinori Kuzuya, Yuichi Ohya (Japan)
5P-T2 -066d	Photoinduced Mass Transfer by the Surface Tension Difference Fabricated by Inkjet Printing on Polymer Films <u>Issei Kitamura</u> , Kazuaki Oishi, Mitsuo Hara, Shusaku Nagano, Takahiro Seki (Japan)	5P-T6 -087c	Hydrogel Preparation by Chitosan and N-vinylamides As Semi Interpenetration Polymer Network <u>Ryo Kawatani</u> , Suwabun Chirachanchai, Hiroharu Ajiro (Japan)
5P-T6 -069c	Additive- and Co-Solvent-Assisted Hydrothermal Polymerization of Polyimides <u>Michael Josef Taublaender</u> , Miriam Margarethe Unterlass (Austria)	5P-T6 -088d	Selective immobilization of cell-specific ligands to the surface of biodegradable matrices via complementary DNA adaptors <u>Hiromichi Sumida</u> , Yuta Yoshizaki, Akinori Kuzuya, Yuichi Ohya (Japan)
5P-T6 -070d	Enzymatic Polymerization of Comb-like α -1,6- α -1,3-glucan and Characterization of its Gel <u>Mayumi Usagawa</u> , Satoshi Kimura, Yukiko Enomoto, Tadahisa Iwata (Japan)	5P-T6 -089c	Physicochemical, biodegradable and structural properties of crystalline poly(lactic acid) and amorphous poly(ethylene carbonate) blends <u>Nur Azrini Binti Ramlee</u> , Yoichi Tominaga (Japan)
5P-T6 -071c	Synthesis and Living Cationic Polymerization of Vinyl Ether Derived from Naturally-Occurring Furfural <u>Tomoaki Yokota</u> , Takenori Nishida, Mineto Uchiyama, Kotaro Satoh, Masami Kamigaito (Japan)	5P-T6 -090d	Crystallization Kinetics of Silk Nanocrystals Reinforced Poly (L-Lactic Acid) Nanocomposites <u>Amit Kumar Pandey</u> , Rahul Patwa, Vimal Katiyar, Sono Sasaki, Shinichi Sakurai (Japan)
5P-T6 -072d	Elastomeric Materials Based on Oligosaccharide-Containing Biomass-Based Block Copolymers <u>Takuya Isono</u> , Saki Nakahira, Hiroaki Mamiya, Kenji Tajima, Redouane Borsali, Toshifumi Satoh (Japan)	5P-T6 -091c	Development of poly(butylene succinate)/hydro-thermal treatment wood flour composite <u>Kensuke Mivazaki</u> , Masayuki Gomibuchi, Toshifumi Yamada, Takashi Yoshida (Japan)
5P-T6 -073c	Living Cationic Polymerization of Alicyclic Conjugated Dienes Derived from Naturally-Occurring Terpenes for High Performance Materials <u>Takenori Nishida</u> , Kotaro Satoh, Masami Kamigaito (Japan)	5P-T6 -092d	Fabrication of engine hood with resin transfer molding (RTM) of CNF composite material <u>Takayuki Tsukegi</u> , Yuji Kageyama, Kiyoshi Uzawa, Tadashi Sakuma, Shiro Noguchi, Yuzo Okudaira, Yukihiro Suzuki, Rkiyonori Takeyasu, Ryohei Takayama, Toshio Kon (Japan)
5P-T6 -074d	1:2 Radical Copolymerization of Sabinene via Successive Ring-Opening, Monomer Addition, and Ring-Closing Mechanism <u>Aritsu Taku</u> , Nagai Tomonari, Nishida Takenori, Uchiyama Mineto, Satoh Kotaro, Kamigaito Masami (Japan)	5P-T6 -093c	Determination of Molecular Weight of Cellulose by Diffusion-Ordered NMR Spectroscopy <u>Kazuyuki Hattori</u> , Arisa Arai, Takahito Ida (Japan)
5P-T6 -075c	Imidazolium-based Deep Eutectic Solvent for Dissolution of Chitin <u>Satoshi Idenoue</u> , Kazuya Yamamoto, Jun-Ichi Kadokawa (Japan)	5P-T6 -094d	Permselective properties of polysaccharide composite films prepared by hot pressing <u>Yusuke Yataka</u> , Ryo Sato, Kazutoshi Iijima, Mineo Hashizume (Japan)
5P-T6 -076d	Controlled Radical Copolymerization of Various Plant-derived Cinnamic Acid Derivatives <u>Shizuka Sugihara</u> , Hisaaki Takeshima, Mineto Uchiyama, Kotaro Satoh, Masami Kamigaito (Japan)	5P-T6 -095c	Evaluation of mechanical properties of CF / PP composite material + crosslinking agent by electron beam irradiation <u>Ryui Umetani</u> , Yasuyuki Okumura, Osamu Yoshimura, Kiyoshi Uzawa, Takayuki Tsukegi (Japan)
5P-T6 -077c	Transformation of Lignin-Derived Aromatics into Nonaromatic Polymeric Substances with Fluorescent Activities by <i>Pseudomonas</i> sp. ITH-B52 <u>Yuriko Moriya</u> , Hiroshi Matsufuji, Michio Sunairi, Noriyuki Iwabuchi (Japan)	5P-T6 -096d	Shear rate and Shear time dependence on mechanical and structural properties of amorphous polymer <u>Natsumi Yamasaki</u> , Pachiya Phanthong, Keitaro Yamashita, Yasuko Ueno, Ryoko Nakano, Hiroshi Sekiguchi, Shigeru Yao (Japan)
5P-T6 -078d	Selective Chemical Modifications of Lignins Derivatives on Several Lignocellulosic Composites <u>Nobuhiro Watanabe</u> , Yoshiharu Mitoma, Mitsuru Aoyagi (Japan)	5P-T6 -097c	Regeneration and Utilization of Waste Phenolic Formaldehyde Resin and Its Performance Study <u>Lve Yang</u> , Liangshuang Sun, Jiali Peng, Jen-Taut Yeh (China)
5P-T6 -079c	Biosynthesis of biodegradable lactate-based polymers with novel monomer compositions from glucose as the sole carbon source <u>Saki Goto</u> , Ayaka Hokamura, Seiichi Taguchi, Ken'ichiro Matsumoto, Hideki Abe, Kenji Tanaka, Hiromi Matsusaki (Japan)	5P-T6 -098d	Effects of dynamic bonds in hard and soft phases on the mechanical property of thermoplastic elastomers <u>Saki Kawana</u> , Shuya Nakai, Shintaro Nakagawa, Naoko Yoshie (Japan)
5P-T6 -080d	Incorporation of L-lactide random copolymers with essential bark oil using supercritical carbon dioxide <u>Chikara Tsutsumi</u> , Yuuri Imai, Suzuka Hino, Honoka Yamaura, Teruyuki Hara, Yuushou Nakayama, Takeshi Shiono (Japan)	5P-T6 -099c	Investigation of the barnacle settlements on the surfaces with different hydroxyl group ratio <u>Ai Momose</u> , Yuta Segawa, Takayuki Murosaki, Yuji Hirai, Yasuyuki Nogata, Masatsugu Shimomura (Japan)

- 5P-T6
-100d Autonomous Self-healing Polymers with the Assistance of Atmospheric Moisture
Chaehoon Kim, Hiroataka Ejima, Naoko Yoshie (Japan)
- 5P-T6
-101c Fabrication of firebrat's scale mimicking surfaces by using periodic buckling
Shun Uemura, Yuji Hirai, Masatsugu Simomura (Japan)
- 5P-T6
-102d SURFACE ION-IMPRINTED POLYMER FOR SELECTIVE RECOGNITION OF THORIUM IN ACIDIC CONDITION
Nor Azillah Fatimah, Sarala Selambakkanu, Hiroyuki Hoshina, Noriaki Seko, Takeshi Yamanobe (Malaysia)
- 5P-T6
-103c New lithium recovery method using carbonate loaded polymer gel
Risa Matsumoto, Takehiko Gotoh, Takashi Iizawa, Satoshi Nakai (Japan)
- 5P-T6
-104d Fabrication of bacteria-entrapping macroporous gel beads and their use for ammonia oxidation
Ryo Aoyagi, Ryuichi Sato, Akihiko Terada, Hideaki Tokuyama (Japan)
- 5P-T6
-105c Development and characterization of a cationic gel impregnated with iron hydroxide for adsorbing arsenic from groundwater.
Syed Ragib Safi, Takehiko Gotoh, Takashi Iizawa, Satoshi Nakai (Japan)
- 5P-T6
-106d Fabrication of lipase-entrapped NIPA-co-PEGMEA gel beads and their use for esterification and transesterification
Gakuto Kato, Hideaki Tokuyama (Japan)
- 5P-T6
-107c Facile Synthesis of Chitin Acylates in Ionic Liquid
Hiroki Hirayama, Kazuya Yamamoto, Jun-Ichi Kadokawa (Japan)
- 6P-T7
-011a Analysis of the interaction between target membrane proteins and ligand molecules on polymeric micelles
Noriko Nakamura, Yasutaka Anraku, Shigeto Fukushima, Kazuko Tou, Kazunori Kataoka (Japan)
- 6P-T7
-012b Vesicular self-assemblies from siRNAs and PEGylated block cationomers (siRNAsomes): Their structural, physicochemical, and biological characteristics
Beob Soo Kim, Kanjiro Miyata, Akihiro Kishimura, Kazunori Kataoka (Japan)
- 6P-T7
-013a Surface-enhanced Raman scattering Phenylboronic Acid-installed PEGylated Gold Nanoparticles for Cytodiagnosis of Hypersialylated Metastatic Cancers
Babita Shashni, Yukichi Horiguchi, Kosuke Kurosu, Hitoshi Furusho, Yukio Nagasaki (Japan)
- 6P-T7
-014b Development of a novel tissue plasminogen activator installed redox-active nanoparticles (t-PA@RNP) for ischemic stroke therapy
Ting Mei, Ahran Kim, Long Binh Vong, Aiki Marushima, Sandra Puentes, Yuji Matsumaru, Akira Matsumura, Yukio Nagasaki (Japan)
- 6P-T7
-015a Development of metal ion chelating systems toward multi-functional theranostics device
Ahran Kim, Yukio Nagasaki (Japan)
- 6P-T7
-016b Development of an oral drug delivery system of sorafenib for liver fibrosis treatment
Hao Thi Tran, Long Binh Vong, Yuji Nishikawa, Yukio Nagasaki (Japan)
- 6P-T7
-017a A novel anticancer therapeutic based on ROS scavenging and NO generation by redox nanoparticles and poly(L-Arginine)-based polyion complex
Pierre-Etienne Smanio-Besombes, Long Binh Vong, Babita Shashni, Yukio Nagasaki (Japan)

Thursday, December 6, 2018

T-7: Biomedical Polymers and Nanomedicines

- 6P-T7
-001a Synthesis and dilute-solution properties of N-(2-Hydroxypropyl) methacrylamide copolymers toward drug delivery systems
Taisei Miura, Rintaro Takahashi, Kazuo Sakurai (Japan)
- 6P-T7
-002b Tumor-targeting DDS based on EPR effects using anticancer-drug attached polymers
Momoko Yanai, Shota Fujii, Ji Ha Lee, Rintaro Takahashi, Kazuo Sakurai (Japan)
- 6P-T7
-003a The Relationship between polymers on DDS particles and their retention in blood.
Koichi Arai, Shota Fujii, Ji Ha Lee, Rintaro Takahashi, Kazuo Sakurai (Japan)
- 6P-T7
-004b Application of SPG/peptide complex to detect cancer cells
Thi Hong Van Doan, Mizuha Sakashita, Shinichi Mochizuki, Kazuo Sakurai (Vietnam)
- 6P-T7
-005a Furry nano-balls: synthesis of polymer-based nano-particles prepared via o/w emulsions and their performance as DDS carriers
Rena Tanaka, Shota Fujii, Rintaro Takahashi, Ji Ha Lee, Kazuo Sakurai (Japan)
- 6P-T7
-006b Synthesis and Dilute solution properties of Biocompatible HPMA Copolymers toward DDS
Doi Kiyomasa, Miura Taisei, Takahashi Rintaro, Fujii Shota, Sakurai Kazuo (Japan)
- 6P-T7
-007a Relationship between the polymer on DDS nanoparticles and their retention properties in blood
Jun Matsuno, Shota Fujii, Rintaro Takahashi, Ji Ha Lee, Kazuo Sakurai (Japan)
- 6P-T7
-008b Development of tumor-specific double-stranded RNA delivery system using hyaluronic acid
Masashi Umeda, Atsushi Moritaka, Shinichi Mochizuki (Japan)
- 6P-T7
-009a Development of antisense nucleic acid delivery system targeting K-Ras
Shogo Sasaki, Nobuaki Fujiwara, Hiroto Izumi, Kazuo Sakurai, Yasuo Morimoto, Shinichi Mochizuki (Japan)
- 6P-T7
-010b Delivering Melittin using Crosslinked and pH responsive Nanomedicine
Amit Ranjan Maity, Sabina Quader, Shigehito Osawa, Kazunori Kataoka (Japan)
- 6P-T7
-018b Acid-degradable coacervates formed from methylated cyclodextrins-threaded polyoxanes for local protein delivery
Atsushi Tamura, Kei Nishida, Nobuhiko Yui (Japan)
- 6P-T7
-019a Development of gene therapeutic agent targeting point mutated KRAS gene
Yusuke Hamashita, Naoki Kise, Toshihiko Sakurai (Japan)
- 6P-T7
-020b Effect of dendron generation on the interaction with liver cells and pH-responsive liposomes containing galactose moieties-introduced dendron lipids
Yuya Hayashi, Eiji Yuba, Atsushi Harada, Kenji Kono (Japan)
- 6P-T7
-021a Sugar Moiety-Introduced pH-Sensitive Curdlan-Modified Liposome for Antigen Presenting Cell-Specific Antigen Delivery System
Yoshiki Fukaya, Eiji Yuba, Atsushi Harada, Kenji Kono (Japan)
- 6P-T7
-022b Sonodynamic therapeutic effect of doxorubicin delivered by head-tail type polycation-based nanocapsules
Takayuki Matsuda, Eiji Yuba, Atsushi Harada (Japan)
- 6P-T7
-023a Fluorescence imaging of lymph nodes by using various anionic dendrimers
Shu Nagashima, Yutaka Nishimoto, Takayuki Ohira, Kohei Nakajima, Mayu Tomita, Mikako Ogawa, Chie Kojima (Japan)
- 6P-T7
-024b Effects of Hydrophobic domain formed by phospholipid-mimetic polymers with dodecyl group to the adhesion of various cells
Risa Katayama, Musashi Ikeda, Kohei Shiraishi, Akikazu Matsumoto, Chie Kojima (Japan)
- 6P-T7
-025a Development of Degradable Poly(ethylene glycol) (PEG) Derivatives for Suppressing Cellular Vacuolation
Sun Xiaohang, Makoto Matsui, Hiroyasu Takemoto, Takahiro Nomoto, Keishiro Tomoda, Nobuhiro Nishiyama (Japan)
- 6P-T7
-026b Conjugation of siRNA and a polymer with coil-globule transition property for control of siRNA activity around body temperature
Savaka Onodera, Hiroyasu Takemoto, Takahiro Nomoto, Keishiro Tomoda, Makoto Matsui, Nobuhiro Nishiyama (Japan)
- 6P-T7
-027a Poly(N-isopropylacrylamide) derivatives exerting remarkable LCST shift in response to slight pH change via detachment of hydrophilic acid-labile moiety
Sjaikhurrizal El Muttaqien, Takahiro Nomoto, Hiroyasu Takemoto, Makoto Matsui, Keishiro Tomoda, Nobuhiro Nishiyama (Japan)

- 6P-T7
-028b Development of novel drug delivery system for enhancing bone regeneration in bone fracture model mouse.
Yuka Kaihara, Makoto Matsui, Hiroyasu Takemoto, Takahiro Nomoto, Keishiro Tomoda, Nobuhiro Nishiyama (Japan)
- 6P-T7
-029a Macrocyclic Multiblock Amphiphilic PEGs for Biorelated Applications
Yudai Nakagawa, Kohei Sato, Adam M. Wawro, Kazushi Kinbara (Japan)
- 6P-T7
-030b Chemo-enzymatic synthesis of (-)-epigallocatechin gallate-based network polymers for controlled release
Sachiko Nitta, Ayaka Sakamoto, Miki Akagi, Hiroyuki Iwamoto (Japan)
- 6P-T7
-031a γ -cyclodextrin-immobilized cellulose adsorbent for removal of endotoxin
Masayo Sakata, Sho Kinoshita, Natsumi Hagio (Japan)
- 6P-T7
-032b Fabrication of a multi-layered porous nanosheet as adhesive plasters their pressing-type drug release
Shun Takimoto, Takuya Komachi, Hideaki Sumiyoshi, Yutaka Inagaki, Yosuke Okamura (Japan)
- 6P-T7
-033a Preparation of Phenyl Boronic Acid-Binding Block Copolymer Micelle for Boron Neutron Capture Therapy.
Ryoya Umevama, Yuta Yoshizaki, Shin-Ichi Miyatake, Akinori Kuzuya, Yuichi Ohya (Japan)
- 6P-T7
-034b Evaluation of Temperature-Responsive Biodegradable Injectable Hydrogel as Adhesion Prevention Materials
Takuya Nagata, Soichiro Fujiwara, Yuta Yoshizaki, Shinji Takai, Denan Jin, Akinori Kuzuya, Yuichi Ohya (Japan)
- 6P-T7
-035a Protein Encapsulation and Controlled Release by Thermo-Responsive Core Cross-linked Micelle
Maho Ohshio, Kazuhiko Ishihara, Atsushi Maruyama, Naohiko Shimada, Shin-Ichi Yusa (Japan)
- 6P-T7
-036b Investigation of sugar responsiveness by boronic acid-introduced lipid membrane
Satsuki Ozawa, Yusuke Nezu, Toshifumi Tojo, Takeshi Kondo, Makoto Yuasa (Japan)
- 6P-T7
-037a Cell Membrane Modifiers for Efficient Optoporation
Saya Otake, Kou Okuro, Takuzo Aida (Japan)
- 6P-T7
-038b Anomalously Slow Hydration Kinetics of a Hydrophobic Self-Assembled Monolayer in Water
Tengfei Fu, Xing Hao, Eric Silver, Shuo Chen, Yoshimitsu Itoh, Takuzo Aida (Japan)
- 6P-T7
-039a Supramolecular Polymerization of Biotin-Appended Chaperonin GroEL with Divalent Streptavidine Linkers
Hao Shen, Hashim (P) Kayakali, Takuzo Aida (Japan)
- 6P-T7
-040b Nanocapsule for Transcellular siRNA Delivery into Deep Tissues
Ai Kohata, P. K. Hashim, Kou Okuro, Takuzo Aida (Japan)
- 6P-T7
-041a Stimuli-responsive Molecular Glues for Manipulation of Biological Events
Rina Mogaki, Kou Okuro, Takuzo Aida (Japan)
- 6P-T7
-042b Synthesis and Characterization of Carboxylic β -Cyclodextrin with Vitamin E/C
Mijin Jeong, Injun Song, Ildoo Chung (Korea)
- 6P-T7
-043a Modified β Cyclodextrin With L Ascorbic Acid For Skin Whitening Agent
Mijin Jeong, Eunkyung Yoo, Ildoo Chung (Korea)
- 6P-T7
-045a Molecular Design of Amphiphilic Electron Shuttling Phospholipid Polymers for Inducing Apoptosis in Cancer Cells
Masahiro Kaneko, Masahito Ishikawa, Kazuhiko Ishihara, Shuji Nakanishi (Japan)
- 6P-T7
-046b A novel method to quantify an amount of azide groups on material surfaces using a clickable and cleavable fluorescent compound
Rika Sakai, Hiroki Iguchi, Tatsuo Maruyama (Japan)
- 6P-T7
-047a Facile coating of a polypropylene surface for the preparation of a biosensor
Manami Hara, Keisuke Nishimori, Shigeru Kitahata, Takashi Nishino, Tatsuo Maruyama (Japan)
- 6P-T7
-048b Novel anti-cancer treatment using a supramolecular gelator responsive to tumor microenvironment
Shota Yamamoto, Yuki Nishida, Tatsuo Maruyama (Japan)
- 6P-T7
-049a Preparation of a Cu-free clickable surface by simple polymer coating for DNA immobilization
Koki Miyahara, Rika Sakai, Tatsuo Maruyama (Japan)
- 6P-T7
-050b Functionalization of a cellulose membrane surface by coating a PEGylated polymer
Kazuki Kaneko, Manami Hara, Takashi Nishino, Tatsuo Maruyama (Japan)
- 6P-T7
-051a Selective cytotoxicity of enzyme-responsive peptide lipids containing tyrosine residues
Kanon Nishimura, Shota Yamamoto, Takashi Aoi, Tatsuo Maruyama (Japan)
- 6P-T7
-052b Preparation of Photo-Responsive Polymer Particles Exhibiting Assembly Behavior and Their Applications as Biocompatible Coating Agents
Takayuki Namera, Yihua Liu, Akifumi Kawamura, Tetsuji Yamaoka, Takashi Miyata (Japan)
- 6P-T7
-053a Design of Polymer Nanoparticles That Exhibit Selective Uptake into Cancer Cells
Aoi Uozumi, Akifumi Kawamura, Takashi Miyata (Japan)
- 6P-T7
-054b Preparation of Biomolecular Ligand-containing Colored Particles and Their Target Molecule-responsive Behavior
Atsuhiko Sugahara, Akifumi Kawamura, Takashi Miyata (Japan)
- 6P-T7
-055a Facile Detection of Sugar-Protein Interactions by Electrophoretic Deposition (EPD) Using New Glycopolymers
Tomomi Komura, Akinori Takasu (Japan)
- 6P-T7
-056b Preparation of Injectable and Biodegradable Hydrogel with Interpenetrating Polymer Network based on Self-assembling Peptide and Chitosan for Promoting Cartilage Tissue Regeneration
Shohei Ishikawa, Kazutoshi Iijima, Shigehito Osawa, Michihiro Iijima, Hidenori Otsuka (Japan)
- 6P-T7
-057a Polystyrene gels swollen with d-limonene controlled transdermal drug delivery by cross-linking density and interacting moiety.
Preevarad Charoensumran (Japan)
- 6P-T7
-058b Surface properties and water swelling behavior on various substrates coated with MPC polymer
Yusuke Takagi, Chie Kojima, Kohei Shiraishi, Akikazu Matsumoto (Japan)
- 6P-T7
-059a Smart lipid membrane devices: Control of lipid membrane morphology by thermoresponsive cationic comb-type copolymer/peptide complex
Tsukuru Masuda, Takuro Ochiai, Naohiko Shimada, Atsushi Maruyama (Japan)
- 6P-T7
-060b Effect of Arm Length on Protein Adsorption for Heteroarm PMMA-PHEMA Star-Shaped Polymer Brush Coatings
Giancarlo Ong Uygongco, Masayasu Totani, Kayo Terada, Mime Kobayashi, Tsuyoshi Ando, Masao Tanihara (Japan)
- 6P-T7
-061a Design of PG-surfactants that enables to be taken into eukaryotic cells
Sumito Natsumi, Tsukiji Shinya, Mizuno Toshihisa (Japan)
- 6P-T7
-062b Fabrication of polymer disc-shaped particles as novel carriers for turbidimetric assay
Kenichi Ishikura, Daiki Sogabe, Atsushi Nakagawa, Yosuke Okamura (Japan)
- 6P-T7
-063a Fabrication and evaluation of biodegradable disc-shaped particles encapsulated phenobarbital for nasal administration
Kazuki Nagashima, Atsushi Nakagawa, Tomomi Hatanaka, Haruka Ozawa, Tatsuya Kanemaru, Masaki Uchida, Hideshi Natsume, Yosuke Okamura (Japan)
- 6P-T7
-064b Fabrication and evaluation of biodegradable disc-shaped particles with thrombolytic ability
Shota Yoshida, Atsushi Nakagawa, Sho Yokoyama, Hiroshi Kimura, Yosuke Okamura (Japan)
- 6P-T7
-065a Preparation of PMEA Brushes with Controlled Grafting Density and Evaluation of Anti-thrombogenicity
Tomoya Ueda, Daiki Murakami, Masaru Tanaka (Japan)
- 6P-T7
-066b Protein adsorption and hydration structure of fluorine-containing synthetic polymers
Ryohei Koguchi, Katja Jankova, Kyoko Yamamoto, Masaru Tanaka (Japan)

- 6P-T7-067a Effect of expansion of the side-chain spacing of PMEA on blood compatibility and hydration state
Toshiki Sonoda, Shingo Kobayashi, Masaru Tanaka (Japan)
- 6P-T7-068b Detachment of Cell Sheet from Cell Culture Dishes by pre-coating of Thermoresponsive Side-Chain Crystalline Block Co-Polymer
Mai Hazekawa, Sho Hirai, Ryoko Nakano, Shigeru Yao, Manabu Nakashima (Japan)
- 6P-T7-069a Investigation of chemical structure of SCCBC suitable for arterial embolic agents
Kasumi Sanui, Sho Hirai, Ryoko Nakano, Hiroshi Sekiguchi, Norihisa Nitta, Shigeru Yao (Japan)
- 6P-T7-070b Preparation of copolymers with poly(acrylamide) having L-Lysine Moiety and 2-(Methacryloyloxy)ethyl Phosphorylcholine and its Effect on Fibrinolytic Activity
Yuto Oki, Nanako Mita, Kohei Shiraishi (Japan)
- 6P-T7-071a Electroconductive, Flexible, and Soft PEDOT/Thermoplastic Polyurethane Hybrid Material for Biomedical Scaffold
Jin Seul Park, Pauline May Losaria, Jin-Heong Yim (Korea)
- 6P-T7-072b The effects of metal ions on GM1-induced amyloid β aggregation
Koichiro Ito, Teruhiko Matsubara, Toshinori Sato (Japan)
- 6P-T7-073a Evaluation of cell adhesion and mechanical properties of triblock copolymers comprising polylactide and antithrombogenic polycarbonate
Mai Sano, Yuta Haga, Haruka Tsuchiya, Masaru Tanaka, Kazuki Fukushima (Japan)
- 6P-T7-074b Highly oriented collagen films by cell aligned cultivation on scaffolds with parallel grooves
Yuki Matsubara, Takuya Matsumoto, Chizuru Hongo, Takashi Nishino (Japan)
- 6P-T7-075a Direct Measurement of Double-stranded DNA-mediated Interparticle Force by Optical Tweezers
Hiroya Nakauchi, Mizuo Maeda, Naoki Kanayama (Japan)
- 6P-T7-076b A Simple Colorimetric Assay of Bleomycin-Mediated DNA Cleavage Based on Double-Stranded DNA-Modified Gold Nanoparticles
Kazunori Kimura, Yoshitsugu Akiyama, Tohru Takarada, Mizuo Maeda, Akihiko Kikuchi (Japan)
- 6P-T7-077a Toward Antibody-Free Acoustic Wave-based Biosensors for C-Reactive Proteins by Phosphorylcholine-Functionalized Polymers
Jihh Guang Wu, Jie Hao Chen, Shu Chen Wei, Shyh Chyang Luo (Taiwan)
- 6P-T7-078b Adhesion Force Measurement of Tentacles of Live Cypris by Scanning Force Microscopy
Yuka Yamaguchi, Shohei Shiimoto, Kazuo Yamaguchi, Yasuyuki Nogata, Motoyasu Kobayashi (Japan)
- 6P-T7-079a Electrical potential change of conducting polymer film attributable to enzyme reaction
Takashi Kuwahara, Mamoru Kameda, Mizuki Kondo, Masato Shimomura (Japan)
- 6P-T7-080b Poly (γ -glutamic acid) based hydrogel as a surgical sealant
Hyunghwan Kim, Youngjoo Koh, Sukyung Ahn, Jin Hee Maeng, Eunhye Lee, Don Haeng Lee, Hyesung Yoon (Korea)
- 6P-T7-081a Development of Biodegradable Poly(caprolactone) Dermal Fillers : Comparisons of Physical Properties and Preclinical Evaluation
Na-Jeong Park, Jin-Su Kim, Wang-Soo Shin, Jung-Ha Park (Korea)
- 6P-T7-082b Modular block polysaccharides based on renewable resources
Ingrid V. Mo, Amalie Solberg, Marianne O. Dalheim, Christophe Schatz, Bjorn E. Christensen (Norway)
- 6P-T7-083a In vivo testing of biodegradable phosphate-based optical fibres
Martin Kunes, Veronika Zavalova, Vera Radochova, Pavel Peterka, Ondrej Podrazky, Oleksiy Lyutakov, Daniel Milanese, Edoardo Ceci-Ginistrelli (Czech Republic)
- 6P-T3-003c Evaluation of fibrous grafted adsorbent having 2-ethylhexyl hydrogen-2-ethylhexylphosphonate as a functional group
Hirovuki Hoshina, Jinhua Chen, Yuji Ueki, Noriaki Seko (Japan)
- 6P-T3-004d Porous Polymeric Monolith from the Gel-Emulsion of an Amphiphilic Block Copolymer for the Efficient Adsorption of Volatile Organic Compounds
Arindam Chakrabarty, Monali Maiti, Kazuma Miyagi, Yoshikuni Teramoto (Japan)
- 6P-T3-005c Strontium Adsorption of SBA-15 Functionalized with Phosphate Derivatives
Jong-Man Yoo, Sung Soo Park, Riyasudheen Nechikkattu, Chang-Sik Ha (Korea)
- 6P-T3-006d Improved Thermal Conductivity of PP/POE Blends by Controlling Uniform Dispersion and Selective Distribution of Al_2O_3
Xi Zhang, Bulbul Maira, Toru Wada, Patchanee Chammingkwan, Toshiaki Taniike (Japan)
- 6P-T3-007c GPC Analysis of Radiated Grafted PVDF and Its Polystyrene Graft Chains
Jinhua Chen, Natsuki Hayashi, Yuji Ueki, Hiruyuki Hoshina, Noboru Kasaki, Noriaki Seko (Japan)
- 6P-T3-008d Synthesis of Water soluble Polymer Having 2,4-Diamino-1,3,5-Triazinyl Group in the Side Chain and Electrochemical ON/OFF function for Molecular Recognition Ability
Ishii Jin, Takeda Kouta, Nakamura Nobuhumi, Chikae Miyuki, Takamura Yuzuru, Watanabe Toshiyuki (Japan)
- 6P-T3-009c Functional Electrophoretic Deposition of Fluorinated Polymers
Ken Kimizu, Mikihiro Hayashi, Akinori Takasu (Japan)
- 6P-T3-010d Chiral phenolic resins grown on chiral silica associated with amines residues
Seiji Tsunega, Ren-Hua Jin (Japan)
- 6P-T3-012d Resin containing layered polydiacetylene for analysis of thermophysical properties and thermal stabilities.
Shuheji Ishioka, Hiroaki Imai, Yuya Oaki (Japan)
- 6P-T3-013c Simultaneous Gelation Using Silicone Polymer with Silanol Residue Leading to Novel Organic-Inorganic Hybrid Interpenetrating Polymer Networks
Junta Sano, Shigeki Habaue (Japan)
- 6P-T3-014d Highly crosslinked new type double-decker silsesquioxane in epoxy polymer: Synthesis and Properties
Rungthip Kunthom, Nobuhiro Takeda, Masafumi Unno (Japan)
- 6P-T3-015c Synthesis of soluble hybrid polymers based on fluorinated incompletely condensed cage silsesquioxanes
Lina Li, Hiroaki Imoto, Kensuke Naka (Japan)
- 6P-T3-016d Development of thermal insulation materials based on bridged polysilsesquioxane
Yuki Nakanishi, Satoru Tsukada, Takayoshi Ishimoto, Hiroyuki Kai, Kenta Okada, Yohei Adachi, Joji Ohshita (Japan)
- 6P-T3-017c Preparation of bridged polysilsesquioxane membrane containing amine unit for water desalination
Kazuki Yamamoto, Takahiro Gunji, Joji Ohshita (Japan)
- 6P-T3-018d Correlation between structures and mechanical properties of crosslinked film of alternating copolymer bearing cage type silsesquioxane and dimethylsiloxane
Kazuya Suwa, Masashi Kunitake (Japan)
- 6P-T3-019c Synthesis and optical properties of new silicon nanosheets with alkenyl and alkynyl substituents
Yuki Matsuzawa, Yuki Tanaka, Yohei Adachi, Joji Ohshita, Masataka Ohashi, Hideyuki Nakano (Japan)
- 6P-T3-020d Synthesis and Post-elements-transformation of Titanafuorene-containing Materials
Alvin Tanudjaja, Hiroki Nishiyama, Shinsuke Inagi, Ikuyoshi Tomita (Japan)
- 6P-T3-021c Synthesis and Properties of Benzo[d]dithieno[b,f]borepins and Their Polymers
Yohei Adachi, Takanori Nomura, Fuka Arai, Joji Ohshita (Japan)
- 6P-T3-022d Preparation of Ruthenium Dithiolene Complex/Polysiloxane Films and Their Responses to CO Gas
Satoru Tsukada, Takuya Sagawa, Takahiro Gunji (Japan)
- 6P-T3-023c Synthetic Strategies of Functional Organoarsenic Materials
Susumu Tanaka, Hiroaki Imoto, Kensuke Naka (Japan)

T-3: Hybrid Materials

6P-T3-001c Adsorption performance of trivalent and hexavalent chromium in aqueous solution by electron beam grafted adsorbents
Natsuki Hayashi, Noriaki Seko, Jinhua Chen, Dauju Matsumura, Takuya Tsuji, Hiroyuki Saitoh (Japan)

6P-T3-002d Synthesis of grafted fibrous metal adsorbent
Yuji Ueki, Noriaki Seko (Japan)

- 6P-T3
-024d Modification of polysilane with methacrylate having a protected isocyanate
Yukihito Matsuura, Yuto Sakatani, Yuka Muramoto, Sakiko Fukunishi, Satoshi Minami (Japan)
- 6P-T3
-025c Synthesis of Polymer Brushes Grafted Nanodiamond Particles
Akira Miyano, Maiko Nishibori, Ayumi Hamada, Kazutaka Kamitani, Atsushi Takahara (Japan)
- 6P-T3
-026d Facile fabrication of graphene/silicon composites and their application to lithium-ion battery
Kohei Yukinaga, Ichiro Imae (Japan)
- 6P-T3
-027c Effect of boron nitride nanosheets on mechanical properties of polylactic acid composites
Witita Laosamathikul, Keiichi Kuboyama, Toshiki Sawada, Toshiaki Ougizawa, Takeshi Serizawa (Japan)
- 6P-T3
-028d Synthesis of polyamide and hydroxyapatite nanocomposite - Improving mechanical properties by HAP shape control-
Tomoyo Kawamura, Kenya Sonobe, Asami Ohashi, Harumi Watanabe, Katsushi Watanabe, Hiroshi Oyamada, Masaaki Aramaki, Toshiaki Ougisawa (Japan)
- 6P-T3
-029c Preparation of hybrid microspheres with interpenetrating polymer-silica network
Yuva Yamaguchi, Nanami Hano, Takeshi Wakiya, Makoto Takafuji, Hirotaka Ihara (Japan)
- 6P-T3
-030d Embedding Aluminosilicate Nanotubes in Free-standing Polymeric Nanomembranes for Mechanical Reinforcement
Anteneh Kindu Mersha, Shigenori Fujikawa (Japan)
- 6P-T3
-031c Tunable Softening and Toughening of Individualized Cellulose Nanofiber-Polyurethane Urea Elastomer Composites
Jihoon Shin (Korea)
- 6P-T3
-032d Ultradrawing Properties of Supercritical Carbon Dioxide-assisted Ultrahigh Molecular Weight Polyethylene/Activated Nanocarbon Fibers
Ting Lei, Wang-Xi Fan, Mei-Chuan Kuo, Si-Yu Mi, Kuo-Shien Huang, Chao-Ming Huang, Jen-Taut Yeh (China)
- 6P-T3
-033c Cellulose /Polyhedral Oligomeric Silsesquioxane (POSS)-Modified Montmorillonite(MMT) Nanocomposite
Inho Shin, Chang-Sik Ha (Korea)
- 6P-T3
-034d Color tuning of luminescent materials by hybridization of polysilsesquioxane and metal complexes
Ryohei Ono, Masashi Nakamura, Koji Mitamura, Hiroyuki Enomoto, Kimihiro Matsukawa, Seiji Watase (Japan)
- 6P-T3
-035c Phosphorescence properties and fabrication of hybrid thin film using polysilsesquioxane and gold complex
Satoshi Nakagawa, Masashi Nakamura, Koji Mitamura, Araki Masuyama, Seiji Watase (Japan)
- 6P-T3
-036d Sensitized phosphorescence of terbium complex by co-hybridized fluorene derivative in polysilsesquioxane
Masashi Nakamura, Haruka Katakura, Satoshi Minami, Koji Mitamura, Seiji Watase (Japan)
- 6P-T3
-037c Transparent and Stable Superhydrophobic Surface for Anti-stain Coating
Yubin Jeon, Saravanan Nagappan, Chang-Sik Ha (Korea)
- 6P-T3
-038d Preparation of Robust Structurally Colored Coating Films Formed with Arrays of Monodisperse CeO₂ Particles and Perhydropolysilazane-derived SiO₂
Ryo Uesugi, Kiyofumi Katagiri, Kensuke Uemura, Kei Inumaru, Yukikazu Takeoka (Japan)
- 6P-T3
-039c Preparation and Characterization of Cellulose Nanofiber/Imogolite Nanohybrids
Linlin Li, Wei Ma, Yuji Higaki, Atsushi Takahara (Japan)
- 6P-T3
-040d Preparation and Characterization of Nanocomposites with Comb-shaped Polymer Brushes
Hitoshi Shimamoto, Chao-Hung Cheng, Kazutaka Kamitani, Yuji Higaki, Ken Kojio, Atsushi Takahara (Japan)
- 6P-T3
-041c Effective Organic Modification of Layered Double Hydroxides Nanoparticles for Controlled Nanohybridization
Shiori Hayashi, Yoshiyuki Kuroda, Keisuke Muramatsu, Yuya Oka, Hiroaki Wada, Atsushi Shimojima, Kazuyuki Kuroda (Japan)
- 6P-T3
-042d Cyclosiloxanes with alkoxysilyl groups as nanobuilding blocks of siloxane-based hybrid materials
Tomoaki Sugiyama, Masashi Yoshikawa, Hiroya Shiba, Hanako Ikawa, Hiroaki Wada, Atsushi Shimojima, Kazuyuki Kuroda (Japan)
- 6P-T3
-043c Facile Route of Graphene Aerogel- Conductive Polymer Hybrid Microsphere by Using Simultaneous Co-vaporized Vapor Phase Polymerization
Jae-Woo Jang, Kerguelen Mae Nodora, Frances Danielle M. Fernandez, Jin-Heong Yim (Korea)
- 6P-T3
-044d Amphiphilic polymer modified monodisperse calcium carbonate microspheres for application in high-performance liquid chromatography
Yuki Hiruta, Mai Mochida, Yuta Nagai, Hiroto Kumagai, Hiroaki Imai, Daniel Citterio (Japan)
- 6P-T3
-045c Design of Semi-Continuous Selective Layer Based on Deposition of UiO-66 Nanoparticles for Nanofiltration
Shangkum Goji, Patchanee Chammingkwan, Dai Trinh, Toshiaki Taniike (Japan)
- 6P-T3
-046d Morphological control of wrinkled-structure of silica nanoparticle-crosslinked shell on the polymer microsphere
Nanami Hano, Makoto Takafuji, Hirotaka Ihara (Japan)
- 6P-T3
-047c Development of Stimuli-Responsive Bio-Inspired Liquid-Crystalline Hybrid Nanoparticles
Masanari Nakayama, Satoshi Kajiyama, Akihito Kumamoto, Tatsuya Nishimura, Yuichi Ikuhara, Masafumi Yamato, Takashi Kato (Japan)
- 6P-T3
-048d Preparation of high refractive index hybrid thin films by dispersing zirconia nanoparticles
Kimihiro Matsukawa, Atsushi Sasaki, Hiroyuki Enomoto, Hiroaki Imoto, Kensuke Naka (Japan)
- 6P-T3
-049c Molecular dynamics simulations of 4,4-DDS driven DGEBF cross-linked polymer resin
Pradeep R. Varadwaj, Paul Fons, Masataka Ohkubo, Kiyoka Takagi (Japan)
- 6P-T5
-052d Novel Microbial Response for Dysprosium and Its Application for Polymer Designing
Yuichi Hakumai, Ayuri Matsumura, Makoto Ashiuchi (Japan)
- 6P-T5
-053c Computational and Informatics Studies for Design of Fabrication Condition of Polymer-Filler Composite Material
Ken Saito, Yusuke Imai, Yuichi Tominaga, Yuji Hotta (Japan)
- 6P-T5
-054d Machine learning method for composite materials using extended OCTA system
Jun Morita (Japan)
- 6P-T8
-057c Two-dimensional molecular alignment in liquid crystal polymer films by masked photopolymerization
Yoshiaki Kobayashi, Norihisa Akamatsu, Atsushi Shishido (Japan)
- 6P-T8
-058d pH and temperature response of phenylalanine- and succinic acid-modified dendrimers
Mamiko Tamaki, Chie Kojima (Japan)
- 6P-T8
-059c Facile synthesis of supramolecular A₃B₂ star copolymer via molecular recognition of self-assembled capsule
Natsumi Nitta, Mei Takatsuka, Takeharu Haino (Japan)
- 6P-T8
-060d Synthesis and Properties of Multiblock Amphiphilic Ligand Molecules
Miki Mori, Kohei Sato, Kazushi Kinbara (Japan)
- 6P-T8
-061c Preparation and Self-assembly of comb-coil block copolymers possessing PNIPAM coil
Haruka Takebuchi, Ren-Hua Jin (Japan)
- 6P-T8
-062d Thermo- and Photo-Responsive Behavior of Monofunctional Dual Stimuli-Responsive Organogels
Seidai Okada, Eriko Sato, Yuta Koda, Hideo Horibe (Japan)
- 6P-T8
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-086d Preparation and properties of coordination polymer gel from phenol derivative
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-098d Selective deposition of metal nano-particulate ink using photodegradable self-assembled monolayers
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-099c Birefringence dispersions of liquid crystalline syndiotactic poly (methylene) films
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-100d Photoinduced electron transfer between porphyrin derivative and methylviologen under the existence of polyvinylpyrrolidone
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-105c Fabrication and characterization of hetero network hydrogels composed of self-assembled nanofiber-crosslinked polymer
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-111c Synthesis and properties of one-dimensional gold(I)-thiolate coordination polymer
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-018b Synthesis of hyperbranched polymers by light-irradiation-initiator-fragment incorporation radical copolymerization of acrylamides with *N,N'*-methylenebisacrylamide -
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-036b A Rational Design of Highly Controlled Suzuki-Miyaura Catalyst-Transfer Polycondensation for Synthesis of Regioregular Poly(3-alkylthiophene)s
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-038b Unstoichiometric cyclic condensation polymerization of phenylene and acceptor monomers by means of Suzuki-Miyaura coupling
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-044b Synthesis and properties of oligothiophene-based poly(tetramethylsilylarylenesiloxane) derivatives.
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-050b Synthesis and Properties of Alkyl-substituted Poly(phenylene sulfide) Derivatives by Oxidative Polymerization
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-054b Synthesis and Characterization of 3D Printable Dental Resin based on Polybenzimidazole
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-055a Synthesis and Characterization of Biodegradable Photocurable Surgical Guide by 3D Printing
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-056b Synthesis of ion-conductive core-shell nanoparticles via site-selective quaternization of triazole-triazolium salt block copolymers
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-057a Catechol-Bearing Polymers with Clickable Groups for Metal Surface Modification
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-058b Synthesis and Functionalization of Polyaspartates with Click Reactive Side Chains
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-059a Synthesis of fluorine-containing π -conjugated polymers having ring-fused pyridinium moieties via intramolecular nucleophilic aromatic substitution reaction
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-060b Synthesis and Characterization of Structure-Tunable Diaryliindolinone-based Mechanochromic Polymers
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-062b Development of Thermal Latent Reductants for Accelerated Decomposition of Cross-Linked Polyperoxides
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-063a Synthesis of polythioethers from aromatic dialdehydes and sulfur using indium catalyst and disiloxane as reducing agents
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-064b Gelation of POSS-pendant Copolymers Based on Cage Scrambling Mediated by Fluoride Ion
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-065a Fabrication of Polyimide Porous Membrane with Through Hole
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-066b Thermosensitivity of poly[oligo(ethylene glycol) mono(m)ethyl ether (meth)acrylate] gels.
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-068b Polymerization of very long side chain crystalline block copolymer and application of adhesive property to polyethylene
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-069a Synthesis of Amphiphilic Block Copolymers and Application to Suspension Polymerization
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-073a Impact of Ester Groups on Photovoltaic Properties in a Thiazolothiazole-Naphthobisthiadiazole Polymer
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-074b Synthesis and Characterization of Luminescent Nanoparticles with Immobilized Aggregation-Induced Emission Core Structure
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-075a Cholesteric Liquid Crystals from Crosslinkable Cellulose Derivatives for Full-color Imaging Applications
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-076b Polymer Colloidal Crystals with Light-Emitting Semiconductor Nanocrystals
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-077a Synthesis of pendant-type block and random copolymers with carbazole/(di)phenyl anthracene for organic light-emitting devices.
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-078b Photoluminescent properties of tetraphenylethene derivatives in homogeneous systems and mechanistic study on aggregation-induced emission
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-079a Synthesis and characterization of polymeric materials having room temperature phosphorescent properties
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-081a Construction of anionic UV curing systems for thick films using chain curing agents
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-082b Synthesis of novel acid amplifiers generating superacids and their application to cationic UV curing systems
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-083a Photoinduced Mass Transfer in Thin Film Containing Photocleavable Compound
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-084b Photo-bidirectional Mobility of Liquid Crystalline Polypeptide Gel Used Difference of Chemical Properties in Cross-Linker
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-086b Precise Syntheses of Luminescent Polymer Microparticles for Novel Colloidal Photonic Crystals
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-087a Laser Action from Soft Colloidal Crystal Films
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-088b Mechano-Optical Properties of Layered Cholesteric-Liquid-Crystal Elastomer Films
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-089a Synthesis and characterization of polythiophenes with oligoisobutylene-based side chains
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-090b Development of Semiconducting Polymers Based on Vinylene-Bridged Thiadiazoles
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-091a Development of n-type semiconducting polymers with a novel electron-deficient imide-based π -electron system.
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-092b Synthesis of poly(arylene vinylene) conjugated polymers by ring-opening metathesis polymerization and their morphology study
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-093a Synthesis and characterization of crosslinkable hole-transporting polymers comprising of carbazole and thiophene units
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-094b In-plane growth of PEDOT films based on bipolar electropolymerization
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-095a Electrical properties of polyurea thin films prepared by Vapor Deposition Polymerization.
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-096b Orientation Control of Polymer Thin Films by Polarized UV-assisted Vapor Deposition Polymerization
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-097a Investigation of waveguiding properties of electrospun polymer fibers under/after heat treatment
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-098b Alkoxy-Substituted Anthrathiadiazole-Based Semiconducting Polymers: Synthesis and Application to Organic Electronic Devices
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-099a Synthesis and Purification of Poly[triphenylamine] for OFET measurement and XPS Analysis
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-100b Study on creation of low dielectric base by electroless copper plating based on polyethylene base material
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-101a Polymerization of azaanthraquinone derivatives and application to cathode-active materials of all-solid-state lithium ion batteries
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-102b Effect of plasticizer on ion-conductive behavior of polycarbonate-based electrolytes
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-103a Electrochemical properties of end-capped polycarbonate electrolytes for all-solid-state lithium batteries
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-104b Electrochemical and mechanical properties of salt-in-polymer electrolytes with homogeneous network
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-105a Rapid charge based on charge mediation of hybrid electrode combining TEMPO-substituted polyethers and Lithium transition metal oxides
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-106b Tetra-PEG Ion Gel Comprising Solvate Ionic Liquid: The Effect of Lithium Cation Solvation on Electrolyte Properties
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-107a Synthesis of Poly(propyl methacrylate) with Highly Dissociative Anion and Application for Lithium Sulfur Battery as an Electrolyte Membrane
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-108b Single Ion Conducting Block Copolymer for Protective Coating of Graphite and Si@G anode of Lithium Ion Batteries
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-109a Examining the Sodium Ion Conductivity of Swollen Polymerized Ionic Liquid Gel Electrolytes
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-110b Preparation and evaluation of crosslinked poly(tetrahydrofuran) as gel matrix for Mg gel electrolytes
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-111a Pseudo-capacitive behavior of polymerized aminoanthraquinone on porous carbon
Taiki Hashimoto, Masayuki Morita, Kenta Fujii, Nobuko Yoshimoto (Japan)
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-112b Improving Pt utilization efficiency in polymer electrolyte membrane fuel cells by polymer wrapping onto the carbon blacks
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-113a Fabrication of Wide Temperature Polymer Electrolyte Membrane by Acid-grafted Poly(2,5-benzimidazole)
Hoon Han, Tsuyohiko Fujigaya (Japan)
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-114b Electrochemical characteristics of decreased-platinum catalyst for polymer electrolyte fuel cell using poly metal phthalocyanine
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-115a Fabrication and fuel cell application of proton conductive nanofibers containing sulfonic and acid group
Motoki Nishizawa, Risa Sakaguchi, Takahiro Ogura, Manabu Tanaka, Hiroyoshi Kawakami (Japan)
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-116b Effect of cross-linking on the properties of polyphenylene-based proton exchange membranes for fuel cell applications
Zhi Long, Yaojian Zhang, Junpei Miyake, Kenji Miyatake (Japan)
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-117a Influence of Nitrogen Content and Hybrid Orbitals of Carbon in Cathode Catalysts for Polymer Electrolyte Fuel Cell on Oxygen Reduction Activity
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-118b Poly(vinylfluorenone) nanoparticles toward a hydrogen carrier
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-119a Polymer hybrid membranes for greenhouse gas capture
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-120b CO₂ separation of mixed matrix membranes containing surface-modified silica nanoparticles
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-121a Effect of Chemical Structure on CO₂ Separation Properties of Sulfonated Polyimide Composite Membranes Containing Ionic Liquids
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-122b Consideration of conditions of porous carbon surface modification by radiation-induced graft polymerization
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-123a Dye-doped submicron meta-aramid fibers
Wataru Kita, Ryo Kato, Yuya Isii (Japan)
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-124b Surface potential of electrospun polymeric fibrous mats
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-125a Porous carbon material prepared from cellulose nanofiber composite
Takumi Okihara, Kohki Sakamoto (Japan)
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-126b Fabrication of electro-spun polystyrene fibers and their actuation behavior
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-127a Polymer Hydrogel Microparticles for Colloidal Crystal Sensors
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-128b Development of stretchable materials
Tadahiro Ogawa, Takashi Kawamori, Takeshi Masaki (Japan)
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-129a Tuning of thermoelectric properties of alkoxy-substituted polythiophenes
Toru Takaki, Yousuke Ooyama, Ichiro Imae (Japan)
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-130b Thermoelectric properties of polythiophenes having polyhedral oligosilsesquioxanes (POSS)
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-131a Preparation of mechanochromic polymer substrate via in-situ polymer reaction
Shu-Ichi Hirooka, Daichi Nishi, Mizuho Kondo, Nobuhiro Kawatsuki (Japan)
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-132b Preparation of solid polymer electrolyte with poly(3-alkoxythiophene-co-pyrrole) copolymer for lithium battery
Yul Eum, Seo-Young Jeon, Nam-Ju Jo (Korea)