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May 19 Mon.	9:15	01	Special Session (Polymers Today and Beyond)		A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS	A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS	B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES	B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS	C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS	D. BIOPOLYMERS AND BIORELATED POLYMERS	D. BIOPOLYMERS AND BIORELATED POLYMERS	E. POLYMERS AND ENVIRONMENT	<b>A. POLYMER CHEMISTRY: SYNTHESIS AND REACTIONS (83)</b> 1) Radical Polymerization (including Ring-Opening Radical Polymerization) (12) 2) Ionic Polymerization (Anionic Polymerization, Cationic Polymerization, Photo- and Radiation-Induced Ionic Polymerizations, Ring-Opening Ionic Polymerization, etc.) (10) 3) Metal-Catalyzed Polymerization (Ziegler-Natta Polymerization, Metallocene-Catalyzed Polymerization, Other Metal-Catalyzed Polymerization, Coordination Polymerization, Metal-Catalyzed Ring-Opening Polymerization, etc.) (9) 4) Polycondensation, Polyaddition, Addition Condensation (8) 5) New Polymerizations and New Monomers (Polymerizations via Mechanisms not Included in the Preceding Classifications 1-4, New Catalysts, Novel Monomers, etc.) (5) 6a) Polymers of Designed Architectures (Chainlike Polymers, Block Copolymers, Conjugated Polymers, Rotaxane, etc.) (20) 6b) Special Shaped Polymer (Branched Polymers, Graft Polymers, Star Polymers, Hyperbranched Polymers, etc.) (7) 7) Noncovalent Polymers (Polymers / Supramolecular Architectures via Hydrogen-bonding, Coordination, $\pi$ -Electron-, and Other Intermolecular Interactions) (1) 8) Polymer Reactions (Reactions with Small Molecules, Interchain / Intrachain Reactions, Crosslinking, Decomposition, Degradation, Stabilization, etc.) (10) 9) Others (1)  <b>B. POLYMER PHYSICS: STRUCTURE AND PROPERTIES (53)</b> 1) Analysis of Molecular Properties of Polymers (Configuration, Conformation, Electronic Structures, Molecular Weights, Molecular Weight Distributions, Copolymer Compositions, etc.) (1) 2a) Polymer Solids (Structures / Properties of Crystalline, Amorphous, Highly Ordered Systems, Phase Transition, Morphology, Crystallization, Molecular Motion, etc.) (8) 2b) Polymer Solids (Mechanical, Thermal, Electric, Optical Properties, etc.) (2) 2c) Polymer Solids (Structures / Properties / Formation Processes of Phase Separation of Alloy, Blend, Composites, etc.) (5) 3a) Polymer Solutions, Polymer Melts, Rheology, Dynamics (Structures / Properties / Molecular Motions of Dilute Solutions, Semidilute Solutions, Concentrated Solutions, Polymer Melts, Polyelectrolytes, etc.) (4) 3b) Polymer Solutions, Polymer Melts, Rheology, Dynamics (Molecular Dynamics, Multi Phases, Suspension, Emulsion, Fluid Mechanics, Processing, etc.) (3) 4) Liquid Crystals (Liquid Crystalline Polymers, Thermotropic Liquid Crystals, Lyotropic Liquid Crystals, etc.) (0) 5) Gels, Network Polymers (Elastomers, Thermosetting Resins, Structures / Formation Processes / Properties / Dynamics of Gels, etc.) (13) 6a) Physics / Chemistry of Polymer Surfaces / Interfaces / Thin Films (Structures / Properties of Surfaces, Interfaces, and Thin Films of Polymers; Surface Forces: Nano-Rheology; Tribology, etc.) (6) 6b) Fabrication of Functional Polymer Surfaces / Interfaces / Thin Films (Assemblies at the Interfaces, Molecular Assemblies, Monolayers, LB Films, Fine Particles, Colloids, etc.) (10) 7) Others (1)  <b>C. FUNCTIONAL POLYMERS AND POLYMER FUNCTIONS (113)</b> 1) Electrical / Electronic / Magnetic Functions (Dielectric, Piezoelectric, Pyroelectric, Semiconductor, Conductive, and Magnetic Materials, etc.) (2) 2) Optical / Photochemical Functions (Photonics, Nonlinear Optics, Optical Fiber, Waveguide, Photoresist, Microfabrication, Display-Related Materials, Organic EL, Recording Materials, etc.) (10) 3) Energy-Related Materials Functions (Solar Cell, Fuel Cell, Secondary Battery, Capacitor, etc.) (22) 4) Separation / Recognition / Catalytic Functions (Membrane for Gas and Liquid Separation, Permeation, Separation Column, Molecular Recognition, Molecular Separation, Polymer Catalyst, etc.) (2) 5) High Performance / Physical Functions (Mechanical Properties (e.g. High Strength / High Modulus), Heat Resistance, Flame Retardance, Extreme Environmental Performance, etc.) (9) 6) Functional Soft Materials (Liquid Crystal, Gel, Elastomer, Stimuli-Responsive Materials, etc.) (45) 7) Nanomaterial / Supramolecular Functions (Thin Film, Nanoparticle, Nanofiber, Nanorod, Nano Fabrication, etc.) (6) 8) Composite / Hybrid Material Functions (Organic-Inorganic Hybrid, Nanocomposite, Fiber-Particle Reinforced Composites, etc.) (6) 9) Surface / Interface Functions (Functional Coating, Adhesive, Sticking, Friction, Wear, Water-Repellent Materials, etc.) (11) 10) Others (0)  <b>D. BIOPOLYMERS AND BIORELATED POLYMERS (56)</b> 1) Peptides, Polypeptides, Proteins (Enzymes, Antibodies, Peptide Aptamers, Molecular Recognition, Biological Activities, etc.) (5) 2) Nucleic Acids, Genes (Gene Expression, Artificial Nucleic Acids, Nucleic Acid Aptamers, Antisense Nucleic Acids, RNA Interference, Molecular Recognition, Biological Activities, etc.) (0) 3) Saccharides, Polysaccharides, Glycopolymers (Saccharide Syntheses, Nanofibers, Molecular Recognition, Biological Activities, etc.) (12) 4) Molecular Assemblies, Polymeric Assemblies (Liposomes, Vesicles, Fibers, Nanoparticles, Artificial Membranes, etc.) (9) 5) Biomimetics, Bioinspired Materials (Biological Models, Structural Mimicry, Biological Reactions, Molecular Recognition, Stimulus Responses, Self-Assembly, etc.) (4) 6) Artificial Organs, Diagnostics, Medical Devices (Biocompatibility, Blood Coagulation, Biointerfaces, Bioconjugation, Bioimaging, Biosensing, etc.) (8) 7) Nanomedicine (Drug Delivery, Drug Carrier, Drug Release, Retainability in Blood, Transduction into Cells, Prodrugs, etc.) (14) 8) Regenerative Medicine (Tissue Regeneration, Stem Cells, iPS Cells, Cell Culture, Scaffolds, etc.) (4) 9) Others (0)  <b>E. POLYMERS AND ENVIRONMENT (38)</b> 1) Environment-Conscious Polymer Materials (Bio-based Polymers, Biodegradable Polymers, New Recyclable Polymers, High-performance Composite Materials, Applications, etc.) (27) 2) Resource Circulation Process (Utilization of Biomass Resources, Biorefinery, Polymer Waste Treatments, Resource Saving Technology, Carbon Neutral, etc.) (4) 3) Environment-Conscious Polymer Process (Energy Saving Process, Process Saving, Organic Solvent Free Process, Additives for Reducing the Environmental Load, etc.) (3) 4) Environmental Load Evaluation Technology (Methods for Evaluating the Bio-based Contents, Methods for Evaluating the Green-level, Regulation of Biodegradability, Regulation of Recycling, etc.) (2) 5) Others (2)  <b>F. INDUSTRIAL POLYMERS AND TECHNOLOGY (8)</b> 1) Vehicle / Structural Materials (Polymer Materials for Automobiles, Aircrafts, Vessels, Buildings, Infrastructure, etc.) (0) 2) Daily Life Products (Polymer Materials for Foods, Cosmetics, Film Products, Sheet Products, Coatings, Adhesives, Fiber Products, Papers, Printings, Sanitary Materials, Wrappings, etc.) (3) 3) High Performance Industrial Materials (Engineering Plastics and Other Polymer Materials with High Strength, High Elasticity, Thermostability, Flame Retardance, Extreme Environment Properties, etc.) (1) 4) Mold Processing Technology, Micro/Nanofabrication Technology, and Industrial Nanomaterials (Advanced Molding, Ultra-fine Fabrication, Thin Films, Particles, Nanofibers, Nanorods, etc.) (3) 5) Composite / Hybrid Materials (Organic-Inorganic Hybrids, Nanocomposites, Fiber- or Particle-reinforced Composites, etc.) (0) 6) Surface / Interface Materials (Functional Coatings, Adhesives, Antifriction and Wear-resistant Materials, Water-repellent Materials, etc.) (0) 7) Reforming (Reinforcing Agents, Stabilizers, Flame Retardants, Surface Modification, Foaming, etc.) (1) 8) Others (0)																																																																																																																																																																																																																																																																																						
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