

Program

Sep.19,2010(12:00~18:00), Sunday

12:00~18:00 Registration and Setting up posters;

18:00~20:00 Welcome Party ,Location:Jiahua Hall

20:00~21:30 Setting up posters and Guidance for studying in Japan

1)Biomaterials ,Posters: Location:Wenheng Hall

2)Macromolecules,Posters: Location:Wenzai Hall

3)Integrated Materials,Posters: Location:Huaide Hall

Sep.20,2010, Monday

8:00~8:30 Welcome ceremony

Location: Location:Jiahua Hall

Chairmen: Prof. Zhongze Gu,SEU,China

Plenary Lecture(35+5min)

8:30~9:10 Lei Jiang(Chinese Academy of Sciences,China)

Bio-Inspired, Smart, Multiscale Interfacial Materials

Invited Talk A (15+5min)

9:10~9:30 Shu Seki(Osaka University,Japan)-

Charge Carrier Mobility in Conjugated Organic Materials Probed by Non-Contact Microwave Conductivity Measurement

9:30~9:50 Su Chen (Nanjing University of Technology, China)

Facile Approaches to Multiscale Inorganic-Organic Hybrids with High Photoluminescence

9:50~10:20 Break & photo

10:20-10:40 Meizhen Yin (Beijing University of Chemical Technology, China)

Fluorescent Core-Shell Macromolecules—Specific Cell Staining

10:40-11:00 Takehiko Wada (Tohoku University, Japan)

The Creation of Intracellular Environment Responsible Artificial Nucleic Acid (PRNA) and its Applications to Cancer Cell Specific Oligonucleotide Therapeutics

11:00-11:20 Jing Ze Li(University of Electronic Science and Technology of China, China)

LiCoO₂ thin film cathode fabricated by physical vapor deposition

11:20-11:30 Martin Vacha (Tokyo Institute of Technology)

Introduction of NPG Asia Materials

11:30-12:30 Lunch & Poster

12:30-13:15 Poster short presentation (64×2mins)

time	Session A	Session B	Session C
12:30-13:15	Poster 2min talk (P1-P21)	Poster 2min talk (P1-P22)	Poster 2min talk (P1-P21)

Session A:Biomaterials, Session B:Macromolecules, Session C:Integrated Materials

Alphabetical list of Japanese speakers

The sessions and orders of the poster short presentations will be announced at registration desk after papers contributed from China are merged.

Meilin Dai (*Nagoya University*)

Synthesis of Water-Soluble $(\text{AgIn})_x\text{Zn}_{2(1-x)}\text{S}_2$ Solid Solution Nanoparticles with Adjustable Emission Colors

Ayako Endo (*Tohoku University*)

Study of antisticking molecular layers showing low adhesive forces and high durability to UV-cured resin for UV nanoimprint

Soichiro Iwahana (*Nagoya University*)

Enantioselective acylation by a two-component organocatalyst system using chiral N-heterocyclic carbene and riboflavin derivative

Tomokazu Iyoda (*Tokyo Institute of Technology*)

Metallic Microcoils through Biotemplate Process and Electromagnetic response

Koshi Kawakami (*Osaka University*)

Novel Electron Microscope Observation Method for Biological Specimen Using Room-Temperature Ionic Liquid

Yuki Katsuki (*Tokyo Metropolitan University*)

Application of 3DOM Structure to Anode for Low-Temperature SOFC

Fumikazu Kawajiri (*Nagoya Institute of Technology*)

Shell microstructure of nano-sized hollow silica particles synthesized by anorganic particle template method

Shoichi Kawamitsu (*Tokyo Institute of Technology*)

Synthesis and Applications of Wholly Aromatic Polymers by Novel Palladium-Catalyzed Coupling Polymerization of Thiophene Derivatives and Aryl Dihalides via C-H Bond Activation Process

Taro Kimura (*Tokyo Institute of Technology*)

Fabrication and Selective Permeation of Micropase-separated Free-standing Membrane with Visualized Transport Channels.

Motonori Komura (*Tokyo Institute of Technology*)

Liquid Crystalline Ordering Controls Nanocylinder Structure in Microphase Separated Film

Koshiro Kondo (*Osaka University*)

Physicochemical properties of deep eutectic solvents consisting of 1-alkyl-3-methylimidazolium

salts and urea

Shimpei Kudo (*Tohoku University*)

UV nanoimprinting of epoxy-based and acrylate-based UV-curable composite resins

Keiji Nagai (*Tokyo Institute of Technology*)

Encapsulation and applications of low density and porous plastic materials

Masaya Okada (*Nagoya University*)

Fabrication of Ring-shaped Gold Nanoparticles Array via Solution Evaporation

Taiki Sakamoto (*Osaka University*)

Metal Nanoparticles Prepared with Room-Temperature Ionic Liquid–Accelerator Electron Beam Irradiation Method

Tetsuya Sasamura (*Nagoya University*)

Photochemical Properties of ZnO Rod Thin Films Modified with ZnS-AgInS₂ Solid Solution Nanoparticle

Naofumi Umebayashi (*Nagoya University*)

Synthesis and functions of diarylethenes bearingazole residues

Seiji Yamashita (*Nagoya Institute of Technology*)

Correlation between transformation of LDH precursor and morphology of zinc oxide particle in liquid phase synthesis

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Kazuomi Yoshima (*Tokyo Metropolitan University*)

Fabrication of Rechargeable Micro Lithium-Ion batteries using 3D Comb-Type Electrode Array

13:15-17:15 Invited talk B and Oral Presentation(10+5min)

Session A: Biomaterials and Macromolecules

Chairmen: Prof. Zhongze Gu & Prof. Takehiko Wada

Location: Wenheng Hall

13:15-13:30 Qingjiang Sun (*Southeast University, China*)

High Performance Quantum Dot Light-Emitting Devices with DNA

13:30-13:45 Hirokazu Munakata (*Tokyo Metropolitan University, Japan*)

3D Designs of Sn-Ni Anode for Rechargeable Lithium-Ion Batteries (Invite B)

13:45-14:00 Qing Cai (*Beijing University of Chemical Technology, China*)

Preparation and Biological Properties of Bioactive Carbon-Based Materials

14:00-14:15 Taro Uematsu (Osaka University, Japan)

Fluorescent sensors using emission quenching of ZnS-AgInS₂ solid solution semiconductor nanoparticles (Invite B)

14:15-14:30 Lianying Liu (Beijing University of Chemical Technology, China)

Monodisperse polymeric core-shell microspheres with antibacterial surface prepared by one-step dispersion polymerization using bicationic viologen surfmer

14:30-14:45 Shingo Hadano (Tokyo Institute of Technology, Japan)

Nanostructure control of silver nanodot array using block copolymer template (Invite B)

14:45-15:00 Yaling Wang (Nantong University, China)

The controlled release of protein from the chitosan membrane *in vitro*

15:00-15:15 Hideaki Komiyama (Tokyo Institute of Technology, Japan)

Nano-tiled Electrodes through Block Copolymer Mask for Conducting Polymer Nanowire Array

15:15-15:30 Zhangqi Feng (Southeast University, China)

Electrospun conductive polymer fibers for nerve regeneration

15:30-15:45 Hiroshi Sakaguchi (Kyoto University, Japan)

Molecular Wire Devices by the Use of Electrochemical Epitaxial Polymerization (Invite B)

15:45-16:00 Xiangwei Zhao (Southeast University, China)

High Throughput and Multiplex Bioassay Technology Based on Photonic Crystal--

16:00-16:15 Toshiki Sawada (The University of Tokyo, Japan)

Development of Filamentous Virus-based Materials (Invite B)

16:15-16:30 Fujian Xu (Beijing University of Chemical Technology, China)

Bioactive surfaces *via* Atom Transfer Radical Polymerization

16:30-16:45 Dawei Deng (China Pharmaceutical University, China)

Synthesis and bioapplication of oil-soluble near-infrared-emitting PbS quantum dots---

16:45-17:00 Hiroto Kudo (Kanagawa University, Japan)

Synthesis of Water-Wheel-Like Molecule (Noria) based on Dynamic Covalent Chemistry (DCC) and Its Application for Electron Beam (EB) and Extreme Ultraviolet-(EUV) Resist Materials

17:00-17:15 Jiangong He (Nantong University, China)

Evaluation of the controlled release of NGF from genipin-crosslinked chitosan conduits immobilized with NGF

17:15-17:30 Lifeng Zhao (Southeast University, China)

Differences of gene expression profiles influenced by NiTi alloys before and after TiN coating

17:30-17:45 Guiping Ma (Beijing University of Chemical Technology, China)

A Novel Method of Electrospun Pure Sodium Alginate

Session B: Macromolecules,

Chairmen: Prof. Liqun Zhang & Prof. Eiji Yashima

Location: Wenzai Hall

13:15-13:30 Hirohisa Yoshida (Tokyo Metropolitan University, Japan)

Characterization of Interface in poly(isoprene)/poly(butadiene) blends by AFM (Invite B)

13:30-13:45 Yong Wang (Nanjing University of Technology, China)

Bicontinuous nanoporous membranes via selective swelling of amphiphilic block copolymers

Synthesis of a new hybrid polymer material and its second-order optical nonlinearity

13:45-14:00 Yi Li (*Fujifilm Corporation, Japan*)

Nematic Discotic Liquid Crystals with Low Wavelength Dispersion of Birefringence: Synthesis, Orientation Control and Application on Liquid Crystal Television

14:00-14:15 Bingyong Han(*Beijing University of Chemical Technology, China*)

High-Branched Polyacrylonitrile Prepared by Electron-deficient Alkynes/Lewis Base System Initiated Polymerization of Acrylonitrile

14:15-14:30 Guo Bin (*College of Science, Nanjing Forestry University, China*)

Plasma Modification of Alumina Filler for Elastomer Thermal Interface Material (TIM)

14:30-14:45 Yonglai Lu(*Beijing University of Chemical Technology, China*)

14:45-15:00 Sadayuki Asaoka (*Kyoto Institute of Technology, Japan*)

Molecular design of amphiphilic liquid crystalline block copolymers giving normally oriented cylindrical nanostructures with high aspect ratio (Invite B)

15:00-15:15 Guangxin Chen(*Beijing University of Chemical Technology, China*)

Combining soft substrate with solvent annealing to prepare oriented and ordered micro-domains from diblock copolymers

15:15-15:30 Ze Feng(*Fudan University, China*)

Dual Responsive Block Copolymer Micelles Functionalized by NIPAM and Azobenzene

15:30-15:45 Naoki Ousaka (*Nagoya University, Japan*)

Synthesis and chirality-control of triple stranded helicate composed of peptide chains (Invite B)

15:45-16:00 Jianping Deng (*Beijing University of Chemical Technology, China*)

Asymmetric Polymerization of Achiral Substituted Acetylenes in Chiral Micelles

16:00-16:15 Satoshi Habuchi (*Tokyo Institute of Technology, Japan*)

Multimode diffusion of ring polymer molecules revealed by a single-molecule study (Invite B)

16:15-16:30 Jinbao Guo(*Beijing University of Chemical Technology, China*)

Multi-pitched Photonic Structure from Polymer Template in Cholesteric Liquid Crystals Film as Photonic Materials

16:30-16:45 Pengyu Chen (*Polymer Research Institute of Sichuan University, China*)

Controlled Polymerization of Thermosensitive and pH-Sensitive Diblock Copolymer of Poly(N-isopropylacrylamide)-block-poly(acrylic acid)

16:45-17:00 Jue Chen(*Beijing University of Chemical Technology, China*)

Synthesis of 1,1,2,2-Tetrakis(Hydroxyphenyl) Ethane Tetraglycidyl Ether Epoxy Resin and its fluorescent property

17:00-17:15 Jian Jin(*Suzhou Institute of Nano-Tech and Nano-Bionics, China*)

Fabrication of Free-Standing Ultrathin Films from Air/Liquid Interface and in 2D Confined Space

17:15-17:30 Qigu Huang(*Beijing University of Chemical Technology, China*)

Heterogeneous Ziegler – Natta Catalysts and Polyethylene and Their Morphology

17:30-17:45 Xuejun Kang (*Southeast University, China*)

Modification of electrospinning fiber for adsorption of target compound in air

Session C: Integrated Materials,

Chairmen: Prof. Feng Wang & Prof. Masaru Nakagawa

Location: Huaide Hall

13:15-13:30 Shushi Suzuki (*Nagoya University, Japan*)

Immobilization of Au Nanoparticles Prepared by Sputter-Deposition in Ionic Liquids, on a TiO₂(110) Single Crystal Surface--- (Invite B)

13:30-13:45 Wei Guo (*The Chinese Academy of Sciences, China*)

Energy Harvesting with Ion-selective Single Nanopores

13:45-14:00 Yoshiaki Nakamura (*Osaka University, Japan*)

Self-organization and self-repair of a two-dimensional nanoarray of epitaxial Ge quantum dots using ultrathin SiO₂ film technique (Invite B)

14:00-14:15 Donglin Zhao (*Beijing University of Chemical Technology, China*)

Synthesis of Highly Ordered Mesoporous Carbons Containing Iron Nanoparticles Through Soft Templating Method

14:15-14:30 Shintaro Takata (*Tokyo Institute of Technology, Japan*)

In-situ electrochemical analyses of TiO₂ single crystals and thin films

14:30-14:45 Yong Zhao (*The Chinese Academy of Sciences, China*)

Micro/nanomaterials with Multilevel Interior Structures

14:45-15:00 Yan Sun (*Tohoku University, Japan*)

Microstructural and Luminescence Properties of Pr³⁺-doped Sol-Gel Glasses

15:00-15:15 Yunhua Yu (*Beijing University of Chemical Technology, China*)

Reticular Sn Nanoparticle-dispersed PAN-based Carbon Nanofibers as Anode Materials for Rechargeable Lithium-ion Batteries

15:15-15:30 Wei Wu (*Fudan University, China*)

Near-infrared light induced bending of crosslinked liquid-crystalline polymer films

15:30-15:45 Yongbin Zhao (*Tokyo Institute of Technology, Japan*)

Amphiphilic Liquid Crystalline Block Copolymer Film: Orientation Control and Structural Transcription (Invite B)

15:45-16:00 Chunyong Zhang (*Nanjing Agricultural University, China*)

Designing novel structure ozone generator using boron-doped diamond electrode- Implication for application in household water purifiers

16:00-16:15 Chunxi Hai (*Nagoya Institute of Technology, Japan*)

Effects of MWCNTs on graphitic/alumina Nano-composite fabricated by gel-casting technology---

16:15-16:30 Zhilin Li (*Beijing University of Chemical Technology, China*)

Mechanism, Corrosion Resistance and Treatment Method Improvement of Electrochemically Induced Annealing

16:30-16:45 Jijing (*Nagoya Institute of Technology, Japan*)

The synthesis of asymmetric composite ZnO/PS particle (Invite B)

16:45-17:00 Shu Yin (*Tohoku University, Japan*)

Solution synthesis of multifunctional metal oxides with controllable morphology (Invite B)

17:00-17:15 Xiaodong Wang (*Beijing University of Chemical Technology, China*)

Fabrication and Performance of Microencapsulated n-Octadecane with Calcium Carbonate Wall for Thermal Energy Storage

17:15-17:30 Shoichi Kubo(*Tohoku University,Japan*)

Synthesis of zinc oxide nanocrystals in basic ethanol and methanol solutions (Invite B)

17:30-17:45 Hongwen Zhang (*Changzhou University,China*)

Grafting Polystyrene from PET film by Surface-Initiated Atom Transfer Radical Polymerization

18:00~21:00 Dinner and Poster Session with drink & Young Exchange Forum

Sep.21,2010,Tuesday

Location:Jiahua Hall

Plenary Lecture(35+5min)

8:00-8:40 Masatsugu Shimomura (*Tohoku University,Japan*)

Novel Biomimetic Surface Materials Based on Self-organized Honeycomb-Patterned Polymer Films

Invited talkA (15+5min)

8:40-9:00 Yuji Matsumoto (*Tokyo Institute of Technology,Japan*)

Crystal growth in a vacuum with ionic liquids

9:00-9:20 Lin Guo(*Beijing University of Aeronautics and Astronautics, China*)

Synthesis, Self-Assembly and properties of Nickel metal and Compound Nanomaterials

9:20-9:40 Martin Vacha(*Tokyo Institute of Technology,Japan*)

Single-molecule approach to nanoscale structure and dynamics of molecular complexes: from conjugated polymers to photosynthetic light harvesting

9:40-10:00 Huai Yang (*University of Science and Technology Beijing,China*)

Electrically Controllable Selective Reflection of Chiral Nematic Liquid Crystal/Chiral Ionic Liquid Composites

10:00-10:15 Break

10:15-10:35 Masaru Nakagawa(*Tohoku University,Japan*)

UV nanoimprinting and defect inspection using fluorescent resists

10:35-10:55 Haiqian Zhang(*Nanjing University of Aeronautics and Astronautics, China*)

A surface plasmon resonance-based biodosimetry for gamma irradiation

10:55-11:15 Hiroshi Funakubo(*Tokyo Institute of Technology,Japan*)

Low temperature process of functional oxide films for integration on flexible substrates

11:20 -18:00 Sightseeing in Tianmu Lake

18:00—20:00 Banquet in Tianmu Lake

20: 00 Return to Hotel

21:00-22:00 Committee meeting

Sep.22,2010,Wednesday

Location: Jiahua Hall

Plenary Lecture(35+5min)

8:00~8:40 Zuhong Lu(*Southeast University, China*)

Development for Next Generation DNA Sequencing

8:40~9:20 Ikuyoshi Tomita(*Tokyo Institute of Technology, Japan*)

Diversity-oriented Synthesis of π -Conjugated Polymers from Regioregular Organotitanium Polymers

Invited talkA (15+5min)

9:20~9:40 Yanlei Yu (*Fudan University, China*)

Photoresponsive Actuation Materials Based on Azo-Containing Liquid Crystal Polymers

9:40~10:20 Susumu Kuwabata(*Osaka University, Japan*)

Development of new ways to prepare nanomaterials and new analytical methods by combining ionic liquid and vacuum techniques

Tea Break

10:40~11:00 Xiaonong Chen(*Beijing University of Chemical Technology, China*)

Micellization of poly (N-isopropylacrylamide-co-butyl acrylate) macromonomer in aqueous solution and filter paper membrane grafted with branched thermo-sensitive polymer chains

11:00~11:20 Eiji Yashima(*Nagoya University, Japan*)

Synthesis and Function of Helical Oligomers with Controlled Helical Sense

11:20~11:40 Weiping Qian (*Southeast University, China*)

Rationally Designed Plasmonic Nanostructures for Biomedical Applications

12:00~Closing

12:00~13:00 lunch