**Poster Presentations**

* nominated for “Best Poster Prizes Awards” for students sponsored by Langmuir, the ACS Publications journal

**Biocolloids and Biointerfaces**

P-001* The Effect of Glycine on the Aggregation of Triglycerides in a Phospholipid Monolayer at an Air/Aqueous Interface
Kensuke Asano and Cathy E. McNamee
Shinshu University, Japan

P-002* Precise Synthesis and Surface Characterization of a Novel Biodegradable Copolymer with Phosphorylchol and Catechol Blocks
Yucheng Zhang, Tomoyasu Hirai, Yuji Higaki, Atsushi Takahara
Graduate School of Engineering, Kyushu University, Japan

P-003* Solubilization of Genistein by Phospholipid Vesicles
Shunya Yamamoto, Akio Ohta, Tsuyoshi Asakawa
Graduate School of Natural Science and Technology, Kanazawa University, Japan

P-004* Preparation of Amylose-Polypeptide Inclusion Supramolecules
Ryuya Gotanda, Kazuya Yamamoto, Jun-ichi Kadokawa
Graduate School of Science and Engineering, Kagoshima University, Japan

P-005* Hierarchically Preparation of Amylose Supramolecular Network Materials
Kazuya Tanaka, Kazuya Yamamoto, Jun-ichi Kadokawa
Graduate School of Science and Engineering, Kagoshima University, Japan

P-006* Synthesis of Surface-active Helical Peptide and Its Lipid Nanodisc Formation
Yuri Ikeda, Toshiaki Taira, Hideki Sakai, Kenichi Sakai, Akira Endo, Tomohiro Imura
Tokyo University of Science, Japan

**Characterization of Colloids and Interfaces**

P-007 Comparison of Foaming Properties of Ethanol-Tween 20 and Ethanol-Tween 80 Systems
Pradipta Chattopadhyay, R. Arun Karthick, Venkata Vijayan, Soumya Chowdhury
Department of Chemical Engineering, BITS-Pilani, India

P-008 Resolving Surface Potential of Filtration Membrane in High Ionic Strength Environment
Jen-You Chu, Feng-Sheng Kao, Ling-Na Tsai, Li-Jiaun Lin, Rui-Xuan Dong, Wei-Cheng Tsai, Shu-Hui Cheng
Material and Chemical Research Laboratories, Industrial Technology Research Institute, Taiwan

P-009* Effect of Cross-linking on the Physical Properties of pH-responsive Polymer Particle Monolayers at Air/Aqueous Interfaces
Yuka Azakami and Cathy E. McNamee
Shinshu University, Japan

P-010* Fabrication of Uniform Janus Microspheres by Photopolymerization-driven Phase Separation and their Asymmetric Functionalization with Nanoparticles
Jangwoo Cho, Jeong Won Kim, Youngbok Lee, Jin Woong Kim
Dept. of Applied Chemistry, Hanyang University, Korea

P-011* Physico-chemical Characterization and Liquid Crystalline Properties of Branched-chain Glucoside Syaidatul Atiqah Szalaeel, Noraini Ahmad, Rauzah Hashim
Faculty of Science, University of Malaya, Malaysia

P-012* Effects of Counterion Species on Interfacial Properties of Oleic Acid-Based Gemini Surfactants
Tadashi Sugahara, Yuichiro Takamatsu, Takeshi Endo, Kenichi Sakai, Masahiko Abe, Hideki Sakai
Faculty of Science and Technology, Tokyo University of Science, Japan
**Surface Modification at Thin Films of Graphene Derivatives with Two Kind of Fluoro Alkyl Groups**
Asami Ohtake, Seiko Uchino, Nobuko Fukuda, Koichi Sakaguchi
Graduate School of Science and Engineering, Saga University, Japan

**Evaluation of Electric Properties and X-ray Diffraction of Cat Films from Graphite Oxide Colloid Solution by Atmospheric Plasma Method**
Yui Kurogi, Misaki Jouo, Takeshi Shiratori, Kotaro Kajiyama, Seiko Uchino, Asami Ohtake, Koichi Sakaguchi
Graduate School of Science and Engineering, Saga University, Japan

**Reasonable CMC Change by Difference of Amino Acid in Head Group**
Takatoshi Kawazoe, Junko Kuwahara, Hajime Mita, Ryosuke Iwatan, Koki Tashita
Graduate School of Engineering, Fukuoka Institute of Technology, Japan

**Preparation of Polymer Brush with Well-Controlled Stereoregularity using a Surface Initiated Living Anionic Polymerization**
Yoshiiro Inutsuka, Yuhi Higaki, Atsushi Takahara
Graduate School of Engineering, Kyusyu University, Japan

**Preparation of Stimulus-responsive Biocompatible Nanocapsules with Electro-capillary Emulsification Method**
Tomoki Kato, Masanao Sato, Tomoyasu Hirai, Atsushi Takahara
Institute for Materials Chemistry and Engineering, Kyusyu University, Japan

**Synthesis of Phospholipid Biosurfactants from Vegetable Oils and Characterization of Their Interfacial Properties for Cosmetics Applications**
SooMin Lee, ByeongJo Kim, KyuYong Choi, HyeonShin Lee, JongChoo Lim
Dongguk University, Korea

**Surface Morphology Control of Powder-Oil Mixture in Funicular State: Cosmetics Research**
Takanori Igarashi, Nariyuki Kurotani, Keisuke Nakao
Skin Care Products Research Laboratory, Kao Corporation, Japan

**Preparation of Water-soluble Fullerene Complex with High Fullerene Concentration**
Tetsuya Ohata, Shin-ichi Yusa, Kazuhiko Ishihara, Yasuhiko Iwasaki
Department of Materials Science and Chemistry, University of Hyogo, Japan

**Self-assembly of UCST-type Temperature-responsive Diblock Copolymers in Water**
Ami Fujihara, Atsushi Maruyama, Naohiko Shimada, Kazuhiko Ishihara, Shin-ichi Yusa
Graduate School of Engineering, University of Hyogo, Japan

**Active Interfacial Modifier(AIM): Emulsification by Poly(Acrylic Acid)-Alkylamine Complex**
Makiko Shinjo, Takeshi Endo, Kenichi Sakai, Kazutami Sakamoto, Masahiko Abe, Hideki Sakai
Faculty of Science and Technology, Tokyo University of Science, Japan
Preparation of Highly Stable Oil in Oil Type Emulsions  
Asako Morioki, Kenichi Sakai, Takeshi Endo, Yoshifumi Watanabe, Kazuyuki Ando, Hiroshi Hayashi, Hirooyuki Ogawa, Masahiko Abe, Hideki Sakai  
Faculty of Science and Technology, Tokyo University of Science, Japan

Emulsification by Poly(Styrene Sulfonate) - Gelatin Complex Coacervate as Active Interfacial Modifier  
Misato Tanaka, Takeshi Endo, Kenichi Sakai, Kazutami Sakamoto, Masahiko Abe, Hideki Sakai  
Faculty of Science and Technology, Tokyo University of Science, Japan

Interfacial Properties and Aggregation Behavior of Hydrocarbon Surfactants Having Single, Double and Triple 3,3-Dimethylbutyl Tails in Water, n-Heptane and Supercritical CO2  
Takumi Endo, Tsuyoshi Narumi, Kazuki Fujita, Craig James, Atsushi Yoshizawa, Julian Eastoe, Masanobu Sagisaka  
Graduate School of Science and Technology, Hirosaki University, Japan

Preparation of Niosomes Using Polyglyceryl Alkyl Ester by Super Critical Carbon Dioxide Reverse Phase Evaporation Method  
Zen Kimura, Shunsuke Yamaguchi, Koji Tsuchiya, Takeshi Endo, Kenichi Sakai, Masahiko Abe, Hideki Sakai  
Faculty of Science and Technology, Tokyo University of Science, Japan

Emulsification by Acylglutamic Acid-Alkylamine Complex  
Toru Tojinbara, Takeshi Endo, Kenichi Sakai, Kazutami Sakamoto, Hideki Sakai  
Faculty of Science and Technology, Tokyo University of Science, Japan

Preparation and Properties of Environmentally Friendly Agrochemical Microemulsion  
Tai Xiumei, Du Zhiping, Wang Wanxu, Wei Hongtu  
China Research Institute of Daily Chemical Industry, China

Synthesis of Graphite Derivatives with Good Solvent Affinity via Fenton Reaction  
Seiko Uchino, Asami Ohtake, Noboru Takisawa, Koichi Sakaguchi  
Graduate School of Science and Engineering, Saga University, Japan

Synthesis of Graphene Derivative with Affinity for Organic Solvent by Esterification Reaction  
Yasutaka Shima, Ai Hirakawa, Asami Ohtake, Koichi Sakaguchi  
Graduate School of Science and Engineering, Saga University, Japan

Synthesis of Colloidal Carbon Material by Atmospheric Pressure Plasma  
Takeshi Shiratori, Seiko Uchino, Kotaro Kajiyama, Koichi Sakaguchi  
Graduate School of Science and Engineering, Saga University, Japan

Physical Properties of Positively Charged Catanionic Vesicles Fabricated from Ion Pair Amphiphiles with Additives  
Chia-Chi Chang, Jhih-Rong Wu, Chien-Hsiang Chang  
Department of Chemical Engineering, National Cheng Kung University, Taiwan

Environmental Applications of Colloids

Adsorption of Perchlorate on Slurry-like Modified Montmorillonite by Hexadecylpyridinium Chloride  
Wuhui Luo, Keiko Sasaki, Tsuyoshi Hirajima  
Department of Earth Resources Engineering, Kyushu University, Japan

Biological Properties of Adsorbable Emulsion Prepared by the Three-phase Emulsion Technology  
Yasutaka Enomoto, Yoko Imai, Kazuo Tajima  
Kanagawa Univ. Project of Three-Phase Emulsion Technology, Japan

Emulsion of Essential Oils and Biological Extracts for Antibacterial Activity Against Airborne Bioaerosols  
Chin-Hsiang Luo, Ting-Yan Liu, Ching-Hung Chi
P-039 Preparation of Titania Films Using Templates Through Evaporation Induced Self-assembly Process and Their Application to Dye-sensitized Solar Cell
Masashi Takahashi and Yusuke Kurita
Faculty of Engineering, Tokyo City University, Japan

P-040* Colloid Transport in Sand Column: Expanding Colloid Filtration Theory into Water Unsaturated Condition
Yosuke Fujita and Motoyoshi Kobayashi
Graduate School of Life & Environmental Sciences, University of Tsukuba, Japan

P-041* Effects of Water Hardness on Interfacial Activity and Aquatic Toxicity of Fatty Acid Soap
Tianye Han, Kazusa Nishi, Rui Gao, Masaru Oya
Yokohama National University, Japan

P-042* Coalescence Enhancement of Oil Droplets in Water with PTFE Fiber Bed
Keigo Takeuchi, Yasuhiro Mukai, Ken Nozawa, Kei Mizuta, Takashi Goshima, Susumu Nii
Department of Chemical Engineering, Nagoya University, Japan

P-043 Amino Acid Anchored Layered Double Hydroxide Nanosheets and Their Co\(^{2+}\) Cation Sorption Behavior
Paulmanickam Koilraj and Keiko Sasaki
Faculty of Engineering, Kyushu University, Japan

Food Colloid and Emulsion Technology

P-044* Characterization of Protein-stabilized Oil-in-Water Emulsions Prepared by High-energy Emulsification Methods
Kazuhiro Fukada and Emi Kobayashi
Faculty of Agriculture, Kagawa University, Japan

P-045 Water-in-Water Emulsions Based on Protein/Polysaccharide Solutions: Sodium Caseinate/HM Pectin System, Preparation and Characterization
A. Sfanji, E. Santamaria, J.M Gutiérrez, C. González
Faculty of Chemistry, University of Barcelona, Spain

P-046 Changes in the Dissolved State of Chlorophyll-a in an Aqueous Solution Using Triton X-100
Midori Yasuda and Masaaki Tabata
Department of Health and Nutrition Sciences, Nishikyushu University, Japan

General Papers in Colloid Science

P-047 Changes of SDS-Induced Helical Structures of Proteins in Thermal Denaturation
Yoshiko Moriyama and Kunio Takeda
Faculty of Engineering, Okayama University of Science, Japan

P-048* Self-Assembly of a Dual pH-Responsive Polyampholyte
Ryusuke Enomoto, Mehul Khimani, Pratap Bahadur, Shin-ichi Yusa
Graduate School of Engineering, University of Hyogo, Japan

P-049* Volume Behaviors of Photo-thermal Convertible Hydrogels
Shunsuke Nakamura, Shohei Onimaru, Yushi Oishi, Takayuki Narita
Department of Chemistry and Applied Chemistry, Saga University, Japan

P-050* Morphology Formation of Collagen Gels Formed in a Confined Space
Honami Takajo, Kazuya Furusawa, Yushi Oishi, Takayuki Narita
Department of Chemistry and Applied Chemistry, Saga University, Japan

P-051* Fluorescence ON-OFF Switching of 1-Anilino-8-Naphthalene Sulfonate and 6-(p-Toluidino) Naphthalene-2-Sulphonate by Using Micelle of Poly(Acrylic Acid-\(\beta\)-N-Isopropylacrylamide)
Kazuki Komatsu, Min Min Yee, Kenichi Nakashima
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-052*</td>
<td>Analyzing the Langmuir Monolayer Behavior of Mixed Ion Pair Amphiphile/Double-chain Cationic Surfactant/Cholesterol Systems</td>
<td>Ke-Wei Hsiao, An-Tsung Kuo, Ting-Bin Jhou, Chien-Hsiang Chang Department of Chemical Engineering, National Cheng Kung University, Taiwan</td>
</tr>
<tr>
<td>P-053*</td>
<td>Effects of Bovine Serum Albumin on the Mixed Ion Pair Amphiphile/Additive Monolayer Behavior at Air/Liquid Interfaces</td>
<td>Yi-Chieh Chan, Ting-Yu Chang, Chien-Hsiang Chang Department of Chemical Engineering, National Cheng Kung University, Taiwan</td>
</tr>
<tr>
<td>P-054</td>
<td>A Study on Worm-like to Vesicle Transition in Cetyltrimethylammonium Tosylate Solutions</td>
<td>Vijay Patel, Vinod K. Aswal, P. Bahadur Department of Chemistry, Vidhyadeep Institute of Science, India</td>
</tr>
<tr>
<td>P-055*</td>
<td>Controlling Crystal Size of Glycine under Irradiation of Megahertz Ultrasound</td>
<td>Yu-Ichiro Sakumoto, Kei Mizuta, Takashi Goshima, Susumu Nii Department of Chemical Engineering, Kagoshima University, Japan</td>
</tr>
<tr>
<td>P-056</td>
<td>Managing the Environmental Issues of Long-chain Fluorinated Surfactants</td>
<td>Marie Pierre Krafft and Jean G. Riess Institut Charles Sadron (CNRS UPR 22), University of Strasbourg, France</td>
</tr>
<tr>
<td>P-057</td>
<td>Thermoresponsive Behavior of Catecholamine Sensitive Copolymer of N-Isopropylacrylamide and Phenylboronic Acid</td>
<td>Ryotaro Kohara, Hiroyuki Imanaka, Koreyoshi Imamura, Naoyuki Ishida Department of Applied Chemistry and Biotechnology, Okayama University, Japan</td>
</tr>
</tbody>
</table>

**Household Products and Detergents**

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-058*</td>
<td>Evaluation of Fatty Acid Removal from Gold and Polymer Surface Using Quartz Crystal Microbalance Method</td>
<td>Yu Kanasaki, Yasuyuki Kobayashi, Keiko Gotoh Nara Women's University, Japan</td>
</tr>
<tr>
<td>P-059*</td>
<td>Effect of Surfactant Addition to Alkaline Cleaner for Protein Removal</td>
<td>Mayuko Nakamura and Masaru Oya Yokohama National University, Japan</td>
</tr>
<tr>
<td>P-060*</td>
<td>Effect of Addition of Surfactant in Microbubble Cleaning</td>
<td>Kanako Hattori, Shiori Arima, Masaru Oya Yokohama National University, Japan</td>
</tr>
<tr>
<td>P-061*</td>
<td>Effect of pH on Detergency of Particulate Soil and Oily Soil Analyzed by Probability Density Function Method</td>
<td>Akihiro Fujimoto, Terumasa Tanaka, Li Qingzhou, Masaru Oya Yokohama National University, Japan</td>
</tr>
<tr>
<td>P-062*</td>
<td>Addition Effect of the Cellulose Derivatives to Surfactants Solution for Cleaner Use</td>
<td>Takumi Sato and Masaru Oya Yokohama National University, Japan</td>
</tr>
<tr>
<td>P-063*</td>
<td>Effect of Surfactant Concentration on Detergency of Several Soils Analyzed by Probability Density Function Method</td>
<td>Terumasa Tanaka, Akihiro Fujimoto, Masaru Oya Yokohama National University, Japan</td>
</tr>
</tbody>
</table>

**Interfacial Phenomena**

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-064</td>
<td>Membrane Tunability Achieved by the Addition of Double Tailed Catanionic Surfactants on Soylecithin + Ion Pair Amphiphile: A Hybrid Vesicle</td>
<td></td>
</tr>
<tr>
<td>Paper Number</td>
<td>Title</td>
<td>Authors</td>
</tr>
<tr>
<td>--------------</td>
<td>----------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>P-065</td>
<td>Study of Clouding Behavior of Block Copolymer</td>
<td>Pritam Guha and Amiya Kumar Panda</td>
</tr>
<tr>
<td>P-066*</td>
<td>Effects of Surface Treatment on Contamination Resistance of Polymer Films</td>
<td>Tejas Joshi</td>
</tr>
<tr>
<td>P-067*</td>
<td>Surface Tension Profiles of Ionic Liquid Solution During and After Microwave Irradiation</td>
<td>Eriko Shobuke, Yasuyuki Kobayashi, Keiko Gotoh</td>
</tr>
<tr>
<td>P-068</td>
<td>Effects of Surface Treatment on Contamination Resistance of Polymer Films</td>
<td>Agus Saptoro, Masahiro Asada</td>
</tr>
<tr>
<td>P-069*</td>
<td>Miscibility Behavior of Gemini Type Perfluorinated Surfactants with DPPC at the Air-Water Interface - Effect of Different Spacer Length</td>
<td>Hiromichi Nakahara, Osamu Shibata</td>
</tr>
<tr>
<td>P-070</td>
<td>Surface Micelle Formation of Gemini-type Partially Fluorinated Alkanes on DPPC Monolayers: A PM-IRRAS Investigation</td>
<td>Muneaki Minamisono, Hiromichi Nakahara, Osamu Shibata</td>
</tr>
<tr>
<td>P-071*</td>
<td>Synthesis of Polymers with Electron Accepting Side-Chain and Evaluation of Molecular Aggregation Structure in Thin Film State</td>
<td>Makoto Kido, Tomoyasu Hirai, Young-Yong Kim, Brian Ree, Moonhor Ree, Atsushi Takahara</td>
</tr>
<tr>
<td>Nanoparticles and Nano-manupulation</td>
<td>Effect of Chain Length and Concentration of Fatty Acids on the Interfacial and Solution Behaviour of Mixed Lipidic Aggregates with Special Reference to Second Generation Solid Lipid Nanoparticles</td>
<td>Gourab Karmakar, Prasant Nahak, Pritam Guha, Biplab Roy, Priyam Chettri, Amiya Kumar Panda</td>
</tr>
<tr>
<td>P-074</td>
<td>Pt and Pd-Pt nanoparticles on Pellet HY for Co-processing of Soybean-Oil Containing Aromatics: Preparation, Characterization, and Catalysis</td>
<td>Jen-Ray Chang, Raymond Chien-Chao Tsiang, Chung-YaoYin, Tzong-Bin Lin</td>
</tr>
<tr>
<td>P-075*</td>
<td>Size-controlled Preparation of Colloidal Gold/Palladium Bimetallic Nanoclusters Stabilized by Poly(N-vinylpyrrolidone)</td>
<td>Sachi Mouri, Setsiri Haesuwannakij, Hidehiro Sakurai</td>
</tr>
<tr>
<td>P-076*</td>
<td>Gold-Silver Core-Shell Nanorods cast on a Plate: Aggregation and Orientation Depending on Surface Modification of a Plate</td>
<td>Takeharu Kitamura, Tomomi Kikuta, Yasuo Niidome</td>
</tr>
</tbody>
</table>
Colloidal Gold Nanoparticles Prepared in Hexadecyltrimethylammonium Bromide/Chloride Solutions

Yuki Inoue, Yo Tsutamoto, Yasuro Niidome
Department of Chemistry and Bioscience, Kagoshima University, Japan

Azobenzethiol-protected Ag Nanoparticles: Synthesis, Surface Photoisomerization and Related Optical/Magneto-optical Properties

Taisuke Shiratsu and Hiroshi Yao
Graduate School of Material Science, University of Hyogo, Japan

Synthesis of Colloidal Gold Nanoparticles Stabilized by C_60(OH)_{36}

Nozomi Sato, Ken Kubo, Hidehiro Sakurai
Graduate School of Engineering, Osaka University, Japan

π-Conjugated Poly(p-phenylene) Polyelectrolyte Nanoparticles: Synthesis and Spectroscopic Characterization

Chiaki Fukui and Hiroshi Yao
Graduate School of Material Science, University of Hyogo, Japan

Electrostatic Assembly of Silica Microsphere-Gold Nanoparticle Core-Shell Construct

Hsuan-Lan Wang, Fu-Cheng Lee, Tze-Yu Tang, De-Hao Tsai
Department of Chemical Engineering, National Tsing Hua University, Taiwan

Synthesis of Functional Nanoparticles for Energy Applications

Fu-Cheng Lee, Yi-Fu Lu, De-Hao Tsai
Department of Chemical Engineering, National Tsing Hua University, Taiwan

PolyvinylChloride-SilverOxide Nanocomposite Film: Synthesis of Ag_2O by Sol-gel Reactions, Characterization & Dielectric Studies of Film by SEM, XRD & LCR Meter

A. Hoda and N. A. Karimi
B.N. College, Patna University, India

Preparation of SiO_2/Au/TiO_2 Core-Shell Nanoparticles and Their Photocatalytic Properties

Kazuya Tobishima, Kanjiro Torigoe, Takeshi Endo, Kenichi Sakai, Hideki Sakai
Faculty of Science and Technology, Tokyo University of Science, Japan

Recovery and Redispersion of Noble-metal Nanomaterials Using Stimuli-responsive Supramolecules of Zwitterionic Amphiphiles

Clara Imura, Zama Katsuya, Takahiro Kobayashi, Yoshiro Imura, Takeshi Kawai, Hitoshi Shindo
Department of Applied Chemistry and The Institute of Science and Engineering, Chuo University, Japan

Effect of Microwave Irradiation on Surface Tension of Suspension Obtained by Preheating Iron Chloride Solution

Masahiro Asada, Agus Saptoro, Yushin Kanazawa, Yusuke Asakuma, Chi Phan
University of Hyogo, Japan

Method for Suppressing Microwave Superheating Effect during Nano-particle Formation

Matsumura Shungo, Ryosuke Nakata, Yusuke Asakuma
University of Hyogo, Japan

High Catalytic Activity and Stability of Supported Gold Nanoflowers

Yoshiro Imura, Clara Imura, Shinya Furukawa, Kenichi Ozawa, Takayuki Komatsu, Takeshi Kawai
Department of Industrial Chemistry, Tokyo University of Science, Japan

Spectroscopic Characterization of Gold Nanoparticles Stabilized with a Pyrene-thiol Derivative

Yu-ki Chiga, Yukiko Yokogawa, Akiko Kaminaga, Yasuou Niidome, Junichi Kurawaki
Graduate School of Science and Engineering, Kagoshima University, Japan
P-090* Development of Novel Synthetic Method of Glucose-binding Silver Nanoparticles and Biosensing Applications
Ryo Hanada, Akiko Kaminaga, Yasurou Niidome, Junichi Kurawaki
Graduate School of Science and Engineering, Kagoshima University, Japan

P-091 Facile Synthesis of Gold Nanoparticles and Investigation of Their Catalytic Activity
Siby Joseph and Beena Mathew
School of Chemical Sciences, Mahatma Gandhi University, India

P-092* Surface Dense-Modification of Self-Assembling Organic Dendron on Monodispersed Spherical Magnetite Nanoparticles
Kazusa Ohsugi, Masaki Matsubara, Masafumi Nakaya, Atsushi Muramatsu, Kiyoshi Kanie
Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Japan

P-093 Manipulation of Surface Properties: The Use of Nanometer-thick Polymer Membrane as a Decal
Hirohmi Watanabe, Aya Fujimoto, Atsushi Takahara
Institute for Materials Chemistry and Engineering, Kyushu University, Japan

Others
P-094 Effect of Acetic Acid, Oleic Acid, Linoleic Acid, and \( \alpha \)-Linolenic Acid on Octanoylated Ghrelin Production
Shigeru Oiso, Miyuki Nobe, Syuhei Iwasaki, Wakana Nii, Natsumi Goto, Yukari Seki, Kensuke Nakajima, Kazuo Nakamura, Hiroko Kariyazono
Graduate School of Pharmaceutical Sciences, Nagasaki International University, Japan

Pharmaceutical and Drug Delivery System
P-095 Preparation of pH-Responsive Biocompatible Nanocapsule
Yoshihiro Tsuda, Shin-ichi Yusa, Kazuhiro Ishihara
University of Hyogo, Japan

P-096* Imaging Mass Spectrometry of Gold Nanoparticles in Blotting Membranes and Tissue Sections
Daiki Muko, Yuki Inoue, Takuro Niidome, Yasuo Niidome
Department of Chemistry and Bioscience, Kagoshima University, Japan

P-097 Cholesterol Effects on the Encapsulation Efficiency of Ethosome-like Catanionic Vescicle- A Comparison between Water-soluble and Oil-soluble Drugs
Yi-Li Tang, Wen-Yu Chiu, Yu-Min Yang
Department of Chemical Engineering, National Cheng Kung University, Taiwan

P-098* Water-soluble Complex Formation Composed of Thermo-responsive Diblock Copolymer and Fullerene
Junki Yano, Shin-ichi Yusa, Tetsuya Ohata, Kazuhiro Ishihara
Graduate School of Engineering, University of Hyogo, Japan

P-099* The Study of Self-heating Capsule Triggered by Glucose Recognition
Takahiro Honda, Hirokazu Takakura, Yushi Oishi, Takayuki Narita
Department of Chemistry Applied Chemistry, Saga University, Japan

P-100* Preparation of Bioactive Janus Particles Using Biopolymer Templates
Shota Tokunaga, Yushi Oishi, Takayuki Narita
Department of Chemistry and Applied Chemistry, Saga University, Japan

P-101* Specific Property of Membrane-breakage Peptide with Liposome
Tetsuya Marumo, Junko Kuwahara, Hajime Mita
Graduate School of Engineering, Fukuoka Institute of Technology, Japan

P-102* Size Control of Biocompatible Vesicles by Preparation Methods
Keita Nakai, Shin-ichi Yusa, Kazuhiro Ishihara
Graduate School of Engineering, University of Hyogo, Japan
Self-assembly Amphiphilic Systems

P-103* Fabrication of Hybrid Type Double-chained Fatty Acid Having Novel Fluoroalkyl Groups
Yuki Katsube, Tatsuo Oida, Tokuzo Kawase
Graduated School of Science and Technology, Kyoto Institute of Technology, Japan

P-104 Synthesis and Aggregation Behavior of Amphiphilic Copolymer with Supralong Hydrophobic Chain and Its Application in Reduced Viscosity of Thick Oil
Xiaoli Wang, Yuejun Zhu, Wenjuan Chen, Engao Tang, Jian Zhang, Yebang Tan
School of Chemistry and Chemical Engineering, Shandong University, China

P-105* Stimuli-response of Cationic Surfactants That Contain Thioacetate Group in the Hydrophobic Tail
Shunsuke Hasegawa, Mei Murakami, Tsuyoshi Asakawa, Akio Ohta
Graduate School of Natural Science and Technology, Kanazawa University, Japan

P-106* Generation of Disulfide Linked Gemini Cationic Surfactants in Aqueous Solution
Tatsuki Maeda, Toshinari Mizuhashi, Tsuyoshi Asakawa, Akio Ohta
Graduate School of Natural Science and Technology, Kanazawa University, Japan

P-107* Aggregation Behavior of New Double-chained Imidazolium Surfactants
Tomoya Nagahashi, Tsuyoshi Asakawa, Akio Ohta
Graduate School of Natural Science and Technology, Kanazawa University, Japan

P-108* Complex Formation of pH-responsive Unimer Micelles and Cationic Block Copolymers in Water
Savaka Ohno, Kazuhiko Ishihara, Shin-ichi Yusa
Department of Materials Science and Chemistry, University of Hyogo, Japan

P-109* Biomimetic Shape Change of a Vesicle under a pH Gradient
Erika Nawa, Daigo Yamamoto, Akihisa Shioi
Department of Chemical Engineering & Materials Science, Doshisha University, Japan

P-110 Aggregation Formation of Glycyrrhizic Acids
Keisuke Matsuoka, Ryusuke Miyajima, Tomokazu Yoshimura
Laboratory of Chemistry, Saitama University, Japan

P-111* Aggregate Nanostructures of Low F-content Surfactant/Water/Supercritical CO: Microemulsions
Kodai Sato, Shunsuke Ogiwara, Craig James, Atsushi Yoshizawa, Julian Eastoe, Masanobu Sagisaka
Graduate School of Science and Technology, Hirosaki University, Japan

P-112* Aggregation Behavior of Nonionic Surfactants Having Iso-stearyl Tail and Polyoxyethylene Headgroup in Water/Supercritical CO2 Mixtures
Atsushi Ohata, Koki Takahashi, Atsushi Yoshizawa, Julian Eastoe, Masanobu Sagisaka
Graduate School of Science and Technology, Hirosaki University, Japan

P-113* Micellization Characteristics of Quaternary Ammonium Type Cationic Surfactants Derived from Betaine or Choline
Hiroki Ezuka, Akio Ohta, Tsuyoshi Asakawa
Graduate School of Natural Science and Technology, Kanazawa University, Japan

P-114* α-Gel Formation by Arginine Cetylphosphate
Yuki Hirai, Keisuke Tanaka, Shunsuke Yamaguchi, Toshiyuki Suzuki, Satoru Hashimoto, Kenichi Sakai, Hideki Sakai
Faculty of Science and Technology, Tokyo University of Science, Japan

P-115 Size Effects of Ag Nanoparticles for Facilitated Olefin Transport Membrane
M. S. Lee, Y. R. Kim, Y. S. Kang
Department of Energy Engineering, Hanyang University, Korea

P-116 Spectral-luminescent Properties of Antibacterial Levofloxacin in Complexes with Quaternary Ammonium Disinfectant
Muhammad Faizan Nazar and Muhammad Ashfaq
P-117* Shape Change of Surfactant Micelles by Solubilization of Pluronic-type Triblock Copolymers

Vu-Thuy-Nhung Phan and Kenji Aramaki
Graduate School of Environment and Information Sciences, Yokohama National University, Japan

P-118 Use of Ion Exchange Columns to Obtain Ordered Mesoporous Materials

C. Méndez, E. Santamaria, A. Maestro, J.M. Gutiérrez, C. González
Faculty of Chemistry, University of Barcelona, Spain

P-119* Acceleration of a Recombination Reaction of Photogenerated Lophyl Radicals in Molecular Assemblies

Taiki Suzuki, Masaaki Akamatsu, Koji Tsuchiya, Takeshi Endo, Kenichi Sakai, Hideki Sakai
Faculty of Science and Technology, Tokyo University of Science, Japan

P-120* Interactions between Nonionic Surfactants and Collagen Peptide

Yuto Inoue, Tomoaki Okano, Tomohisa Fukushima, Yoshitaka Maeda, Takeshi Kawai, Takeshi Endo, Kenichi Sakai, Hideki Sakai
Faculty of Science and Technology, Tokyo University of Science, Japan

P-121 Effects of Charge and Chain Length of the Penetrating Surfactant Ion on the Vesicle-micelle Transition of Mixed Surfactants

Hideo Akiyada, Junko Kuwahara, Kanae Hattori, Kazunari Nagata, Hiromichi Nakahara, Osamu Shibata
Faculty of Pharmaceutical Sciences, Nagasaki International University, Japan

P-122* Niosome and Bicelle Formation of Novel Nonionic Double-Tailed Surfactants

Yoshitomo Tsukijima, Ryota Takei, Kenji Aramaki, Tetsuya Maehara, Daisuke Aburano, Yuichi Sakainushi, Kyohei Kitao
Graduate School of Environment and Information Sciences, Yokohama National University, Japan

P-123 Surface-Active Properties of Single-Alkyl Chain and Multi-Alkyl Chains Containing Amphiphilic Oligomers with Several Sugar Side Chains

Tomokazu Yoshimura, Yuka Nakatani, Keisuke Matsuoka, Kazuhiro Akutsu, Hiroki Iwase
Department of Chemistry, Graduate School of Nara Women’s University, Japan

P-124* Preparation of Bicelles with Soybean Lecithin and Tween80

Yuki Watanabe, Kenji Aramaki, Yoshikazu Konno, Ken Tanaka
Graduate School of Environment and Information Sciences, Yokohama National University, Japan

P-125* α-Crystalline Phase Behavior in Aqueous System with Sucrose Monostearate and Monoglyceride

Minami Kimura, Nagisa Inoue, Satoshi Arima, Kenji Aramaki
Graduate School of Environment and Information Sciences, Yokohama National University, Japan

P-126* Synthesis and Solution Properties of Homogeneous Polyoxpropylene-Polyoxyethylene Type Nonionic Surfactants

Shiho Yada and Tomokazu Yoshimura
Department of Chemistry, Graduate School of Nara Women’s University, Japan

P-127 Synergistic Interaction between Anionic Surfactant Mixtures in a Presence of Ethanol and Sodium Chloride

Atthaphon Maneedaeng
School of Chemical Engineering, Suranaree University of Technology, Thailand

P-128 Effect of Alkyl Chain Length of Imidazolium-based Ionic Liquid on the Ternary Phase Behavior of Surfactant, Ionic Liquid, and Water

Takeshi Misono, Kenta Nakamura, Kenichi Sakai, Hideki Sakai, Masahiko Abe
Research Institute for Science and Technology, Tokyo University of Science, Japan

P-129 Effect of Spacer Length in Gemini Surfactants (14-s-14,2Br−) on Solubilization of n-Alkylbenzenes into Their Surfactant Micelles
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-130</td>
<td>Cationic and Anionic Surfactants Interaction in Pure Water and Methanol-Water Mixed Solvent Media</td>
<td>Hiromichi Nakahara, Hiroaki Nishizaka, Kensuke Iwasaki, Yoshikiyo Moroi, Masashi Nakaya, Kiyoshi Kanie, Atsushi Muramatsu, Osamu Shibata (Graduate School of Pharmaceutical Sciences, Nagasaki International University, Japan)</td>
</tr>
<tr>
<td>P-131</td>
<td>Comparison of the Membrane Structural Properties Between the Phosphatidylcholine and the Ion Pair Amphiphile Bilayers via Molecular Dynamics Simulations</td>
<td>Ajaya Bhattarai, Kabita Pathak, Bikash Dev (Department of Chemistry, M. M. A. M. C, Tribhuvan University, Nepal)</td>
</tr>
</tbody>
</table>

**Surfactants in Nanotechnology**

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-132</td>
<td>Surface Modification of CaCO₂ Nanoparticles by Fluorosurfactant</td>
<td>DoWon Kim, JongSuk Sonn, JongChoo Lim (Department of Chemical and Biochemical Engineering, Dongguk University, Korea)</td>
</tr>
<tr>
<td>P-133*</td>
<td>Bubble Formation around Nano-particle in Dispersion Medium under Microwave Irradiation</td>
<td>Ryosuke Nakata, Shungo Matsumura, Yusuke Asakuma (Department of Chemical Engineering, University of Hyogo, Japan)</td>
</tr>
<tr>
<td>P-134*</td>
<td>Controlled Release of Insect Pheromone from Sol-Gel Matrix</td>
<td>Daesun Kim, Jiyoung Yoon, Yuna Im, Changyeol Yang, Jong-Duk Kim (Korea advanced Institute of Science and Technology (KAIST), Korea)</td>
</tr>
</tbody>
</table>