

Poster Presentations

* nominated for "Best Poster Prizes Awards" for students sponsored by Langmuir, the ACS Publications journal
17:30 – 19:00 Entrance Promenade (1F)

Biocolloids and Biointerfaces

- P-001* **The Effect of Glycine on the Aggregation of Triglycerides in a Phospholipid Monolayer at an Air/Aqueous Anterface**
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**
Ryuva 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 Sazalee, 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

- P-013* **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
- P-014* **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
- P-015* **Reasonable CMC Change by Difference of Amino Acid in Head Group**
Takatoshi Kawazoe, Junko Kuwahara, Hajime Mita, Ryosuke Iwatani, Koki Tashita
Graduate School of Engineering, Fukuoka Institute of Technology, Japan
- P-016* **Preparation of Polymer Brush with Well-Controlled Stereoregularity using a Surface Initiated Living Anionic Polymerization**
Yoshihiro Inutsuka, Yuji Higaki, Atsushi Takahara
Graduate School of Engineering, Kyushu University, Japan
- P-017* **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, Kyushu University, Japan

Cosmetics and Personal Care Products

- P-018 **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
- P-019 **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
- P-020* **Chitosan Nanoencapsulation of Oolong Tea Extracts**
Paramee Tepsatian and Krisada Kittigowittana
Mae Fah Luang University, Thailand
- P-021 **A Study of Bicontinuous Cubic Liquid Crystal Formulation for Cosmetic Applications**
Hye Lim Yeo, Jun Bae Lee, Youn Joon Kim, Hee Chang Ryoo, Moungh Seok Yoon
COSMAX R&I Center, Korea
- P-022 **A Study of Multi-lamellar Liquid Crystal Phase Emulsions Using Small Angle X-ray Scattering**
Hye Lim Yeo, Jihui Jang, Su Ji Kim, Jun Bae Lee, Hee Chang Ryoo, Moungh Seok Yoon
COSMAX R&I Center, Korea

Dispersed and Colloidal Systems

- P-023* **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
- P-024* **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
- P-025* **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

- P-026* **Preparation of Highly Stable Oil in Oil Type Emulsions**
Asako Morioki, Kenichi Sakai, Takeshi Endo, Yoshifumi Watanabe, Kazuyuki Ando, Hiroshi Hayashi, Hiroyuki Ogawa, Masahiko Abe, Hideki Sakai
Faculty of Science and Technology, Tokyo University of Science, Japan
- P-027* **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
- P-028* **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
- P-029* **Preparation of Niosomes Using Polyglycerol 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
- P-030* **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
- P-031 **Preparation and Properties of Environmentally Friendly Agrochemical Microemulsion**
Tai Xiumei, Du Zhiping, Wang Wanxu, Wei Hongtu
China Research Institute of Daily Chemical Industry, China
- P-032* **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
- P-033* **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
- P-034* **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
- P-035* **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

- P-036* **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
- P-037 **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
- P-038 **Emulsion of Essential Oils and Biological Extracts for Antibacterial Activity Against Airborne Bioaerosols**
Chin-Hsiang Luo, Ting-Yan Liu, Ching-Hung Chi

Department of Safety, Health and Environmental Engineering, Hungkuang University, Taiwan

- 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, Yasuhito 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 Co²⁺ 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-*b*-N-Isopropylacrylamide)**
Kazuki Komatsu, Min Min Yee, Kenichi Nakashima

Graduate School of Science and Engineering, Saga University, Japan

- P-052* **Analyzing the Langmuir Monolayer Behavior of Mixed Ion Pair Amphiphile/Double-chain Cationic Surfactant/Cholesterol Systems**
Ke-Wei Hsiao, An-Tsung Kuo, Ting-Bin Jhou, Chien-Hsiang Chang
Department of Chemical Engineering, National Cheng Kung University, Taiwan
- P-053* **Effects of Bovine Serum Albumin on the Mixed Ion Pair Amphiphile/Additive Monolayer Behavior at Air/Liquid Interfaces**
Yi-Chieh Chan, Ting-Yu Chang, Chien-Hsiang Chang
Department of Chemical Engineering, National Cheng Kung University, Taiwan
- P-054 **A Study on Worm-like to Vesicle Transition in Cetyltrimethylammonium Tosylate Solutions**
Vijay Patel, Vinod K. Aswal, P. Bahadur
Department of Chemistry, Vidhyadeep Institute of Science, India
- P-055* **Controlling Crystal Size of Glycine under Irradiation of Megahertz Ultrasound**
Yu-Ichiro Sakumoto, Kei Mizuta, Takashi Goshima, Susumu Nii
Department of Chemical Engineering, Kagoshima University, Japan
- P-056 **Managing the Environmental Issues of Long-chain Fluorinated Surfactants**
Marie Pierre Krafft and Jean G. Riess
Institut Charles Sadron (CNRS UPR 22), University of Strasbourg, France
- P-057 **Thermoresponsive Behavior of Catecholamine Sensitive Copolymer of N-Isopropylacrylamide and Phenylboronic Acid**
Ryotaro Kohara, Hiroyuki Imanaka, Koreyoshi Imamura, Naoyuki Ishida
Department of Applied Chemistry and Biotechnology, Okayama University, Japan

Household Products and Detergents

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

Interfacial Phenomena

- P-064 **Membrane Tunability Achieved by the Addition of Double Tailed Catanionic Surfactants on Soylécithin + Ion Pair Amphiphile: A Hybrid Vesicle**

Pritam Guha and **Amiya Kumar Panda**
Department of Chemistry, University of North Bengal, India

- P-065 **Study of Clouding Behavior of Block Copolymer**
Tejas Joshi
Department of Chemistry, Maharaja Krishnakumarsinhji Bhavnagar University, India
- P-066* **Effects of Surface Treatment on Contamination Resistance of Polymer Films**
Eriko Shobuke, Yasuyuki Kobayashi, Keiko Gotoh
Faculty of Human Life and Environment, Nara Women's University, Japan
- P-067* **Surface Tension Profiles of Ionic Liquid Solution During and After Microwave Irradiation**
Agus Saptoru, **Masahiro Asada**, Kenya Tanaka, Yusuke Asakuma, Chi Phan
University of Hyogo, Japan
- P-068 **Miscibility Behavior of Gemini Type Perfluorinated Surfactants with DPPC at the Air-Water Interface - Effect of Different Spacer Length**
Riku Kato, Hiromichi Nakahara, Osamu Shibata
Faculty of Pharmaceutical Sciences, Nagasaki International University, Japan
- P-069* **Mode of Interaction between Partially Fluorinated Alcohol (F6H9OH) and Biomembrane Constituents at the Air-Water Interface**
Muneaki Minamisono, Hiromichi Nakahara, Osamu Shibata
Faculty of Pharmaceutical Sciences, Nagasaki International University, Japan
- P-070 **Surface Micelle Formation of Gemini-type Partially Fluorinated Alkanes on DPPC Monolayers: A PM-IRRAS Investigation**
Hiromichi Nakahara, Marie Pierre Krafft, **Osamu Shibata**
Faculty of Pharmaceutical Sciences, Nagasaki International University, Japan
- P-071* **Synthesis of Polymers with Electron Accepting Side-Chain and Evaluation of Molecular Aggregation Structure in Thin Film State**
Makoto Kido, Tomoyasu Hirai, Young-Yong Kim, Brian Ree, Moonhor Ree, Atsushi Takahara
Graduate School of Engineering, Kyushu University, Japan

Microelectronics and Colloid Science

- P-072* **Uniform Janus Magnetic Microparticles: Fabrication, Positioned Array, and Pressure Sensing**
Woo Jin Lee, Jangwoo Cho, Jin Woong Kim
Dept. of Applied Chemistry, Hanyang University, Japan

Nanoparticles and Nano-manipulation

- P-073 **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**
Gourab Karmakar, Prasant Nahak, Pritam Guha, Biplab Roy, Priyam Chettri, Amiya Kumar Panda
Department of Chemistry, University of North Bengal, India
- P-074 **Pt and Pd-Pt nanoparticles on Pellet HY for Co-processing of Soybean-Oil Containing Aromatics: Preparation, Characterization, and Catalysis**
Jen-Ray Chang, Raymond Chien-Chao Tsiang, Chung-Yao Yin, Tzong-Bin Lin
Department of Chemical Engineering, National Chung Cheng University, Taiwan
- P-075* **Size-controlled Preparation of Colloidal Gold/Palladium Bimetallic Nanoclusters Stabilized by Poly(N-vinylpyrrolidone)**
Sachi Mouri, Setsiri Haesuwannakij, Hidehiro Sakurai
Graduate School of Engineering, Osaka University, Japan
- P-076* **Gold-Silver Core-Shell Nanorods cast on a Plate: Aggregation and Orientation Depending on Surface Modification of a Plate**
Takeharu Kitamura, Tomomi Kikuta, Yasuo Niidome
Department of Chemistry and Bioscience, Kagoshima University, Japan

- P-077* **Colloidal Gold Nanoparticles Prepared in Hexadecyltrimethylammonium Bromide/Chloride Solutions**
Yuki Inoue, Yo Tsutamoto, Yasuro Niidome
Department of Chemistry and Bioscience, Kagoshima University, Japan
- P-078* **Azobenethiol-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
- P-079* **Synthesis of Colloidal Gold Nanoparticles Stabilized by C₆₀(OH)₃₆**
Nozomi Sato, Ken Kokubo, Hidehiro Sakurai
Graduate School of Engineering, Osaka University, Japan
- P-080* **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
- P-081 **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
- P-082 **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
- P-083* **PolyVinylChloride-SilverOxide Nanocomposite Film: Synthesis of Ag₂O 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
- P-084* **Preparation of SiO₂/Au/TiO₂ 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
- P-085 **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
- P-086* **Effect of Microwave Irradiation on Surface Tension of Suspension Obtained by Preheating Iron Chloride Solution**
Masahiro Asada, Agus Saptoru, Yushin Kanazawa, Yusuke Asakuma, Chi Phan
University of Hyogo, Japan
- P-087* **Method for Suppressing Microwave Superheating Effect during Nano-particle Formation**
Matsumura Shungo, Ryosuke Nakata, Yusuke Asakuma
University of Hyogo, Japan
- P-088 **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
- P-089* **Spectroscopic Characterization of Gold Nanoparticles Stabilized with a Pyrene-thiol Derivative**
Yu-ki Chiga, Yukiko Yokogawa, Akiko Kaminaga, Yasurou 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, Yasuro 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 α -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**, Kazuhiko 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 Vesicle- 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, Kazuhiko Ishihara
Graduate School of Engineering, University of Hyogo, Japan
- P-099* **The Study of Self-beating 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 Marume, 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, Kazuhiko 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**
Sayaka 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 CO₂ 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
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