

## A. Materials

A-01	Kazuhiko Kinoshita, Ke-Hsuan Wang, Yoshiro Imura and Takeshi Kawai	Linear polarization property of Ag deposited polystyrene particles prepared by UV irradiation
A-02	Yuki Ohata, Hajime Kamebuchi and Makoto Tadokoro	Structures and dynamics of water nanotube clusters confined to 1-D nanoporous molecular crystals
A-03	Ryoichi Kondo, Yoshiro Imura, Ke-Hsuan Wang and Takeshi Kawai	Preparation of photo- and thermo- responsive coloring emulsion
A-04	Shohei Ishikawa, Kazutoshi Iijima, Shigehito Osawa, Michihiro Iijima and Hidenori Otsuka	Injectable and biodegradable IPN hydrogel consisting of self-assembling peptide and chitosan for cartilage tissue regeneration
A-05	Ananda Kafle, Masaaki Akamatsu, Avinash Bhadani, Kenichi Sakai, Chihiro Kaise, Teruhisa Kaneko and Hideki Sakai	Modification of the hydration behaviors of phosphatidylcholine bilayers by $\beta$ -sitosteryl sulfate
A-06	Yasuyuki Okano, Shohei Ishikawa, Kazutoshi Iijima, Hidenori Otsuka and Mineo Hashizume	Functionalization of silica nonwoven fabrics by hydroxyapatite and behaviors of mesenchymal stem cells thereon
A-07	Naoya Miyajima, Makoto Nakagawa, Ke-Hsuan Wang, Yoshiro Imura and Takeshi Kawai	Ultrathin Au nanowires synthesized in aqueous phase of an amine derivative
A-08	Hiroshi Ikari, Chiaki Terashima, Norihiro Suzuki, Kazuya Nakata, Ken-ichi Katsumata, Takeshi Kondo, Makoto Yuasa and Akira Fujishima	Development of hydrophilic treatment on the semiconductor substrate for three-dimensional structure semiconductor
A-09	Marino Ii, Ke-Hsuan Wang, Yoshiro Imura and Takeshi Kawai	Development in nano-fabrication technology of polymer particles by UV irradiation
A-10	Reiya Nakagawa, Hiroto Masunaga, Jun-seok Oh and Tatsuru Shirafuji	Generation of 3D integrated micro solution plasma in water with micro bubbles
A-11	Yuki Kawai, Chiaki Dohi, Hajime Kamebuchi and Makoto Tadokoro	Crystal structure and properties of water nanotube stabilized in polymorphic crystal with molecular nanopores
A-12	Tadashi Sugahara, Yuichiro Takamatsu, Masaaki Akamatsu, Kenichi Sakai and Hideki Sakai	Highly-ordered $\alpha$ -type hydrated crystal ( $\alpha$ -gel) prepared by double tail-type surfactant
A-13	Kota Murai, Ke-Hsuan Wang, Yoshiro Imura and Takeshi Kawai	Fabrication of spiral nanoholes inside polystyrene particles by an UV irradiation method and their optical properties

A-14	Masato Kashiwakura, Kazutoshi Akamine, Ryutaro Sato, Shigehito Osawa and Hidenori Otsuka	Evaluation of water content and protein adsorption on the substrates decorated by oligo ethylene glycol based comb polymers with different chain density
A-15	Hayato Ikeuchi, Ke-Hsuan Wang, Yoshiro Imura and Takeshi Kawai	Effects of amino acids on the electrodeposition of nickel oxide film
A-16	You Suzuki, Nakayama Rentaro, Imaizumi Taku and Makoto Tadokoro	Nanosopic structure of hydrophilic and hydrophobic molecules in artificial clathrate hydrates
A-17	Kanaho Yamaguchi, Kazutoshi Iijima, Yusuke Yataka and Mineo Hashizume	Structural and functional properties polymer micelles in simulated body fluids
A-18	Ryota Kan, Ryota Akiyama, Yoshiro Imura, Ke-Hsuan Wang and Takeshi Kawai	Preparation of supported gold nanoflowers with high catalytic property
A-19	J. Ishii, S. Suzuki, K. Honda, N. Suzuki, K. Katsumata, K. Nakata, T. Kondo, M. Yuasa, A. Fujishima and C. Terashima	High performance of photocatalytic TiO <sub>2</sub> by using of plasma in-liquid
A-20	Takaya Kouchi, Nao Tamaki, Hajime Kamebuchi and Makoto Tadokoro	Properties on hydrated saccharides confined to hierarchical water nanotube cluster
A-21	Takahiro Kano, Toshihiro Isobe, Sachiko Matsushita and Akira Nakajima	The wettability and Leidenfrost effect of hydrophobic ZnO nanorod arrays
A-22	Takumi Matsumoto, Kayano Sunada, Toshihiro Isobe, Sachiko Matsushita and Akira Nakajima	Preparation of self-hydrophobic La <sub>2</sub> Mo <sub>2</sub> O <sub>9</sub> ceramics with antibacterial and antiviral properties

## B. Measurements and Analysis

B-01	Motohiro Banno, Fuyu Ohno and Hiroharu Yui	Development of nanometer-order height sensing method for the measurement of contact line structure for dynamic wetting process
B-02	Keigo Katayama, Takumi Kawakami, Ryosuke Fujita, Ken Yamamoto, Hiroyuki Takao, Yuichi Murayama and Masahiro Motosuke	Measurement of flow field and calculation of wall shear stress on vessel wall
B-03	Akari Nakamura, Motohiro Banno and Hiroharu Yui	Structural analysis of SiO <sub>2</sub> / H <sub>2</sub> O interfaces of model interstellar ice by polarization modulation infrared external reflection spectroscopy

B-04	Akihiro Ishitani, Taido Kuroki, Maki Shimizu and Yoshikazu Homma	Evaluation of surface and interface water on graphene by environmental atomic force microscopy
B-05	Daiya Aoki, Motohiro Banno and Hiroharu Yui	Syntheses of sugar precursors in model reaction field on sea surface for chemical evolution in the primitive Earth
B-06	Mayu Kiriki, Lizhong Mu, Toshihiro Kaneko and Ichiro Ueno	Coalescence process of two droplets spreading on the horizontal smooth substrate
B-07	Shu-hei Urashima, Akari Nakamura, Taku Uchida, Wataru Hirohara and Hiroharu Yui	Heterodyne-detected vibrational sum frequency generation spectroscopy of environment-controlled material surfaces
B-08	Shouhei Kawada, Shinya Sasaki and Masaaki Miyatake	Effect of water on adsorption layer of ionic liquid on mica
B-09	Y. Shindo, T. Furukawa, T. Itou, Y. Saito and Y. Homma	<sup>1</sup> H-NMR study of liquid-solid change of water confined in carbon nanotubes
B-10	Minoru Toriumi, Takayasu Kawasaki, Mitsunori Araki, Takayuki Imai and Koichi Tsukiyama	Resist-polymer ablation by Mid-Infrared-Free-Electron Laser
B-11	Shigenobu Hata, Sumire Takahashi, Motohiro Banno and Hiroharu Yui	Measurement of spatial distribution of water for buried interface with stimulated Raman scattering interferometer
B-12	Ryosuke Sakurai, Ken Yamamoto and Masahiro Motosuke	Bubble-based dilutor and slit-type RBC agglutination detector for an integrated microfluidic blood typing device using whole blood
B-13	Shota Nakagami, Motohiro Banno and Hiroharu Yui	Syntheses of precursors of nucleic acid bases by solution plasma as a model reaction field for chemical evolution in the primitive Earth
B-14	Yuta Saito, Takashi Kato, Yuichiro Tanaka, Shohei Chiashi and Yoshikazu Homma	Diameter-dependent melting points of water encapsulated in single-walled carbon nanotubes
B-15	Tetsuya Ogawa, Lizhong Mu, Toshihiro Kaneko, Harunori N. Yoshikawa, Farzam Zoueshtiagh and Ichiro Ueno	Spreading of a droplet accompanying with an interaction with a spherical particle settled on a smooth substrate
B-16	Kyosuke Yasuda, Ken Yamamoto and Masahiro Motosuke	Light-induced thermophoretic manipulation of nanoparticles

B-17	Toshinori Morisaku and Hiroharu Yui	Development of the laser-induced surface deformation microscope for the study of dynamic viscoelastic properties of soft interfaces
B-18	Masakazu Muto, Ken Yamamoto and Masahiro Motosuke	Development of droplet activation method by photothermal interfacial flow
B-19	Kazunori Miyamoto, Daiki Ikeshima and Akio Yonezu	AFM adsorption measurements of water purification membranes
B-20	Ryunosuke Kuwana, Saori Handa and Masayuki Futamata	Elucidation of water molecules associating to metal ions using flocculation-surface enhanced Raman scattering
B-21	Yuri Akiba and Hiroyuki Shima	Geometry and order in drying shrinkage cracks of granular paste
B-22	Naoya Yanagisawa and Rei Kurita	The mechanism of collective bubble collapse in a quasi-two dimensional foam
B-23	Shunsuke F. Shimobayashi, Mikiko Tsudome and Tomo Kurimura	Does a sweet coffee drop leave a ring-like stain?
B-24	Kazuyuki Ueno and Shojiro Suzuki	Pinning effect of triple contact lines at the edges of square pillars of microstructured surfaces
B-25	Kanao Fukuda, Zaid Ali Subhi, Noor Dalilah Manaf and Kian Kun Yap	Review on mechanisms of atmospheric humidity to influence the tribological phenomena of materials
B-26	He Li, Kentaro Tanaka and Katsumi Iwamoto	Observation of wetting behavior by fringe method
B-27	Yuta Higashino, Hirokazu Takahashi, Munetoshi Sakai, Toshihiro Isobe, Sachiko Matsushita and Akira Nakajima	Comparative study of the dynamic hydrophobicity of fluoroalkylsilane coatings titled as acute and obtuse angles
B-28	Tadashi Ishida and Tomohiro Hayashi	<i>In-situ</i> observation of water condensation using electron microscope at atmospheric condition
B-29	Hiromichi Chima, Daisuke Hayama, Kyohei Yamashita, Keisuke Seto, Takayoshi Kobayashi and Eiji Tokunaga	Optical Pockels effect in bulk water induced by the interfacial water on the electrode surface
B-30	Tomoka Higaki, Motoki Hino, Ken Yamamoto and Masahiro Motosuke	Improved electrothermal flow manipulation for rapid and sensitive detection of analytes

B-31	Masayuki Shirakawa, Kazuaki Nakata, Takayoshi Kobayashi and Eiji Tokunaga	Light-induced association of porphyrin molecules enhanced in aqueous solution
B-32	Hikaru Okubo and Shinya Sasaki	FM-AFM observation for the low-frictional solid-liquid interface
B-33	Shugo Takahashi, Keisuke Seto, Kazuaki Nakata, Jun Miyazaki, Takayoshi Kobayashi and Eiji Tokunaga	Label-free two-color super-resolution photothermal imaging of unicellular green algae in water
B-34	Naoto Oki, Kohei Maruyama, Natsumi Takikawa, Tadashi Nishio, Shun Konno, Masaki Sekine, Tohru Higuchi, Takuo Ohkochi and Masato Kotsugi	Development of combinatorial fabrication and spectroscopy for materials science of water/solid interface

## C. Theories and Simulations

C-01	Yutaka Sumino	Simplified expression of friction behavior between elastic sheets with rate and state friction law
C-02	Koya Yamasaki, Takahiro Tsukahara and Ichiro Ueno	Numerical simulation of the flow patterns induced by thermocapillary effect in a liquid film with varying volume ratios
C-03	Kenji Sasaoka and Takahiro Yamamoto	NMR spectra analysis of liquid water based on molecular dynamics simulations
C-04	Daijiro Hashimoto and Tadashi Ando	Simulation study on diffusion of a particles in complex geometry
C-05	Kotaro Oda, Donatas Surblys, Yasutaka Yamaguchi, Masayuki Kawakami and Daisaku Yano	Calculation of solid-liquid interfacial energy between OH-terminated SiO <sub>2</sub> and water
C-06	Yuhei Hirose, Yuki Koyano, Hiroyuki Kitahata and Yutaka Sumino	Collective behavior of self-propelled camphor particles on water - effect of lateral capillary forces
C-07	Yusei Kioka, Yuki Maekawa, Kenji Sasaoka and Takahiro Yamamoto	First principles calculation of the influence of surface water on graphene
C-08	Kei Nitta, Masakazu Muto, Ken Yamamoto, Masahiro Motosuke and Takahiro Tsukahara	Study on an in-tube liquid column driven by photoisomerization using OpenFOAM

C-09	Fumiya Nishida, Hiroki Uchida, Tadashi Ando and Jun Taniguchi	Molecular dynamics simulations of nanoimprint lithography
C-10	Kouki Harada, Kenji Sasaoka and Takahiro Yamamoto	Effect of charge induction to carbon nanotube by water droplet
C-11	Yuichi Iwasaki and Yutaka Sumino	Continuous rearrangement of colloidal particles driven under alternating electric field-effect of size distribution
C-12	Tatsuya Joutsuka	Molecular dynamics study of molecular structure at silica/water interfaces
C-13	Tomoko Mizuguchi, Katsumi Hagita and Susumu Fujiwara	Study of the dynamics of confined water in mesoporous silica using the reactive force field
C-14	Nobuhiro Yasoshima, Nobuyuki Matubayasi, Makoto Gemmei-Ide and Tatsuya Ishiyama	Molecular dynamics study of water structure in contact with PMEA
C-15	Kazuya U. Kobayashi and Rei Kurita	Experimental observation of an initial instability in complex fluids
C-16	Rei Kurita, Keita Fukagawa and Noriko Oikawa	Generation of active holes in an ionic droplet in water-ethanol solvent
C-17	Kentaro Tanaka and Katsumi Iwamoto	SPH simulation of breakup process of stretching liquid bridge

## D. Industries and Environments

D-01	Tatsuya Hiraoka, Nami Sasamoto, Yoshinari Abe, Yuichi Takaku and Izumi Nakai	Provenance analysis of water and food products based on the trace element compositions and Sr isotope ratios of water
D-02	Tatsuhiko Mori, Kazuhiko Miura, Sho Ohata, Nobuhiro Moteki, Makoto Koike, Kazunori Nakagome, Masanori Yoshikawa, Aya Iwasaki and Yutaka Kondo	Relative removal efficiency of BC mass concentration over East Asia during 2012 – 2016
D-03	Tetsuo Yoshida, Toshihide Tsuji and Ryuichiro Ohyama	Characteristics of water mist charged by electrostatic induction

D-04	Yuji Nishio, Tatsuoki Muroga, Tadanori Hashimoto and Ishihara Atsushi	Development of self-cleaning pH electrode coated with titanium oxide (TiO <sub>2</sub> ) and its photocatalytic activity
D-05	Takako Igarashi, Koichi Nakamura, Masao Hoshi, Shigeto Inoue, Takeshi Kaharu and Ken-ichiro Murata	Elucidation of Softening Mechanism in Rinse- Cycle Fabric Softeners
D-06	Takumi Yana and Takeshi Hashimoto	Highly conductive carbon nanotubes
D-07	Mika Nakatoge, Hideki Fukui, Seiji Iwamoto, Hideo Hashimoto, Koh Hashiguchi and Masahiro Yasuda	Application of ozone to spraying water in cooling tower of transformer –sterilization of <i>Legionella</i> –
D-08	Asato Maeda, Kazuhiro Miura, Tatsuhiko Mori, Takenori Sato and Yoko Iwamoto	Comparison of CCN characteristics measured in the Tokyo Sky Tree and various places
D-09	Tsubasa Takada, Masahiro Yasuda and Makoto Asano	Removal of NO <sub>x</sub> and SO <sub>x</sub> using absorption equipment having multilayer system of flat glass fiber filter
D-10	Shuwei Zhu, Masahiro Yasuda and Makoto Asano	CO <sub>2</sub> storage in alkaline solution and CO <sub>2</sub> utilization for agriculture
D-11	Naoki Suezawa, Akira Daiyasu, Makoto Asano and Masahiro Yasuda	Thermal desorption of NO <sub>x</sub> from zeolite and utilization of exhaust heat from power generator