	Start Time	End Time	Title	Authors	Affiliations
Sunday, 1st			**Special Lecture**		
0S	16:30	17:30	Exploring Soft Porous Crystals: Discoveries and Future Perspectives in Chemistry	*SUSUMU KITAGAWA[1]	1.Kyoto University
Monday, 2nd			**Plenary Lecture**		
1S	09:00	09:50	Final Answer: Air–Water Interface for Delicate Science	*Katsuhiko Ariga[1, 2]	1.National Institute for Materials Science, 2.The University of Tokyo
Monday, 2nd			**3. [Session] Soft Matter and Biosystems**		
1A	10:10	10:40	Self-organization and Emergent Behaviors of Active Droplets	*Lauren Zarzar[1]	1.The Pennsylvania State University
1A	10:40	10:55	Light-Controlled, Reconfigurable Microswimmers with Internal Feedback	*Se-Hyeong Jung[1], Nick Stauffer[1], Chi Zhang[2], Frank Scheffold[2], Lucio Isa[1]	1.ETH Zuerich, 2.University of Fribourg
1A	10:55	11:10	Self-Propelled Droplet Motion Induced by Density-Driven Convection in a PEG/Salt Aqueous Two-Phase System	*Manato Nishimura[1], Yuma Mori[1], Daichi Sato[1], Pallab Sinha Mahapatra[2], Kiwamu Yoshii[1], Yutaka Sumino[1]	1.Tokyo University of Science, 2.Indian Institutes of Technology Madras
1A	11:10	11:25	Turbulent-like Flows in Quasi Two-Dimensional Dense Suspensions of Motile Colloids	*Rui Luo[1], Alexey Snezhko[2], Petia Vlahovska[3]	1.Okinawa Institute of Science and Technology, 2.Argonne National Laboratory, 3.Northwestern University
1A	11:25	11:40	Spatiotemporal Control of Highly Ordered, Dynamic Microtubule Network via Photophysical Effects of a Focused Laser Beam	*Hiroshi Yoshikawa[1], Tomoaki Matsuura[2], Teruki Sugiyama[3], Ryuzo Kawamura[4]	1.The University of Osaka, 2.Institute of Science Tokyo, 3.National Yang-Ming Chiao Tung University, 4.Saitama University
1A	11:40	11:55	Thermodynamic Analysis of Viscous Fingering Instability Based on The Maximum Entropy Production Principle for Enhanced Oil Recovery	*Tsubasa Nishioka[1], Taiki Yasumatsu[1], Ryuta X Suzuki[2], Yuichiro Nagatsu[2], Takahiko Ban[1]	1.Graduate School of Engineering Science, The University of Osaka, 2.Department of Chemical Engineering, Tokyo University of Agriculture and Technology

1A	11:55	12:10	Johari-Goldstein (JG) β-Relaxation In The Stable Glass	*Ujjwal Kumar Nandi[1], Takeaki Araki[2]	1.Tokyo Electric Power Services Co Ltd, 2.Kyoto University
1A	13:30	14:00	Nanocolloidal Chiral Liquid Crystals	*Ivan I Smalyukh[1]	1.University of Colorado Boulder
1A	14:00	14:15	Light induced reversible elongation/contraction of a liquid crystal fiber	Amiko Aizawa[1], Takahiro Yamamoto[2], Igor Muševič[3], Koichi Asakura[1], Rossi Federico[4], *Yoshiko Takenaka[2]	1.Keio University, 2.National Institute of Advanced Industrial Science and Technology (AIST), 3.Jožef Stefan Institute, 4.University of Siena
1A	14:15	14:30	Direct Measurement of Osmotic Pressure in Colloidal Dispersions by Optical Tweezers	*Keita Saito[1], Fumito Araoka[1]	1.RIKEN
1A	14:30	14:45	Protein-Mimetic Gels with Stimuli-Regulated Molecular Binding Sites	*Takashi Miyata[1], Yuto Toyoshima[1], Tomoya Iwagaki[1], Kazuya Matsumoto[1], Yumemi Mizowaki[1], Akifumi Kawamura[1]	1.Kansai University
1A	14:45	15:00	Role of Branching Structure in the Formation and Yielding of Slippery DLCA Gels	*Koichi Hirata[1], Takeaki Araki[2]	1.Tokyo Electric Power Services Co., Ltd., 2.Kyoto University
1A	15:00	15:15	Shape-Induced Distinctive Motion of Self-Propelled Metallodielectric Rods	*Yasutaka Iwashita[1], Yasuyuki Kimura[2]	1.Kyoto Sangyo University, 2.Kyushu University
1A	15:15	15:30	Self-Viscophoresis: Harnessing Noise through Self-Induced Diffusivity Asymmetry	*AKIRA Kakugo[1], Bokusui Nakayama[1]	1.Kyoto university
1A	15:50	16:20	Complementary Methods for Efficient Formation of Artificial Membrane Vesicles: Osmotic and Interfacial Strategies	*Kanta Tsumoto[1], Takumi Hoshi[1]	1.Mie University
1A	16:20	16:35	Hierarchical Assembly and Biomedical Application of Protein-Displayed Peptide Fibers	*Rie Wakabayashi[1]	1.Kyushu University
1A	16:35	16:50	Robot-Assisted Synthesis and High-Throughput Evaluation of Biomembrane-Targeting Amphiphilic Polymers	*Kazuma Yasuhara[1], Tomomi Inoie[1], Yuiya Ishikawa[1], Shotaro Hieda[1]	1.Nara Institute of Science and Technology

1A	16:50	17:05	Development of Photoresponsive Cell-Penetrating Coacervate Droplets for Intracellular Drug Delivery	*Tomoya Kojima[1], Kazuyoshi Muranishi[1], Takahiro Muraoka[1]	1.Tokyo University of Agriculture and Technology
1A	17:05	17:20	Catechins showed a promising enhancer effect on the direct entry of the Cell Penetrating Peptide (CPP) through the bio-membrane: Structure Activity Relationship of catechins for CPP internalization to Giant Unilamellar Vesicle (GUV)	*Kazutami Sakamoto[1, 2], Mao Okada[1], Yusaku Igarashi[1], Ryutaro Fukasawa[1], Koji Tsuchiya[1], Kyosuke Arakawa[1], Kenichi Sakai[1], Hideki Sakai[1]	1.Tokyo University of Science, 2.Kanagawa University
1A	17:20	17:35	Surface Acetylation of Chitosan-Deposited Liposomes to Improve Colloidal Stability and Load Poorly Water-Soluble Cargos in Oil	*Tomomi Mihara[1], Yuuka Fukui[1], Keiji Fujimoto[1]	1.Keio University
1A	17:35	17:50	A Supramolecular Approach Toward Vesicle-Type Synthetic Cells Exhibiting Peeling-Like Self-Reproduction	*Shoi Sasaki[1], István Lagzi[2], Kouichi Asakura[1], Taisuke Banno[1]	1.Faculty of Science and Technology, Keio University, 2.Department of Physics, Budapest University of Technology and Economics
Monday, 2nd			**4. [Session] Fine Particles, Nanoparticles and Nanomaterials**		
1B	10:10	10:40	From Droplet to Low-Carbon Hydrogen Production: Aerosol-Microfluidic Routes for Nanocatalysis in Methane Reforming	*De-Hao Tsai[1]	1.National Tsing Hua University
1B	10:40	10:55	Development of a Novel Synthetic Method for Magnesium-Doped Zinc Oxide Nanoparticles Using Amidines and Guanidines and Evaluation in QDEL Devices	*Toshihiko Kamiyama[1, 2], Kohei Teratani[1], Yuta Kanno[1], Kiyoshi Kanie[2]	1.Nissan Chemical Corporation, 2.Tohoku University
1B	10:55	11:10	Interfacial and Dimensional Engineering of Flexible Carbon Membranes For Energy Storage Applications	*SUNNY RAMCHANDRA GURAV[1], Tian Xia[2], Meng Wang[1], Takeharu Yoshii[2], Hirotomo Nishihara[1, 2]	1.Advanced Institute for Materials Research (WPI-AIMR), Tohoku University, Sendai, Japan, 2.Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Sendai, Japan
1B	11:10	11:25	MnO_2 Integrated Porous Carbon Nanorods Derived from FullereneAssembly for Advanced Energy Storage	*Sabina Shahi[1], Katsuhiko Ariga[1], Lok Kumar Shrestha[1]	1.National Institute for Materials Science (NIMS)
1B	11:25	11:40	Electrochemical Synthesis of MOFs in an Integrated Microfluidic System	*Shaikha Al-Muraikhi[1], Akinobu Yamaguchi[1], Shunya Fujimoto[1], Hiromi Kawada[1], Fumitaka Sakamoto[1]	1.Toyo University
1B	11:40	11:55	Time-Resolved *In Situ* XRD Analysis of MOF Nanoparticle Formation in Water/Methanol Co-Solvents	Shotaro Danjo[1], Shotaro Hiraide[1, 2], *Satoshi Watanabe[1]	1.Kyoto University, 2.Shinshu University

1B	11:55	12:10	Structural Relaxation Reorganizes Microporosity in Metal-organic Framework Glasses	*Vicki Chen[1], Shuke Zhao[1], Jie Yang[1], Rijia Lin[1], Yinghong Zhou[1], Zhihua Qiao[2], Wengang Huang[1], Meilin Yin[1, 3], Zhonghua Zhu[1], Anthony Cheetham[5], Jingwei Hou[1], Fengxia Wei[4], Fan Zhou[2]	1.University of Queensland, 2.Tiangong University, 3.Hong Kong Polytechnic University, 4.University of New South Wales, 5.Materials Research laboratory, University of California Santa Barbara
1B	13:30	13:45	Polymerisation-Induced Self-Assembly	*Steven Peter Armes[1]	1.University of Sheffield
1B	13:45	14:00	Polymer Particles Grafted with End-functionalized Zwitterionic Polymer Brushes for Bioconjugation	*Ryota Niwa[1, 2], Shigeko Kawai(Noma)[1], Daisuke Aoki[1], Atsushi Tamura[2], Tatsuo Taniguchi[1]	1.Chiba university, 2.Denka, co., ltd.
1B	14:00	14:15	Preparation of Diblock Copolymer Nanoparticles by RAFT Dispersion Polymerization and their use as Nanoreactors for the Synthesis of Sterically-Stabilized Inorganic Oxide Particles in Non-Polar Media	*Priyanka Chohan[1], Oleksandr Mykhaylyk[1], Steven Armes[1]	1.University of Sheffield
1B	14:15	14:30	A Hydrophilic Polymer with Didipolylamide Structures as a Platform for the Facile Fabrication of Precious Metal Nanoparticles in Aqueous Milieu	*Shigehito Osawa[1]	1.Toyo University
1B	14:30	14:45	Design and Programmed Self-Assembly of Patchy Nanoparticles	*Serge Ravaine[1], Auriane Bagur[1, 2], Bin Liu[1, 2], Etienne Ducrot[1], Etienne Duguet[2]	1.University of Bordeaux, CNRS, CRPP, 2.University of Bordeaux, CNRS, Bordeaux INP, ICMCB
1B	14:45	15:00	Design of Reactor to Synthesize Polymer Nano Particles	*Tetsuya Yamamoto[1], Shinya Ouchi[1], Haruyuki Morikawa[1]	1.Nagoya University
1B	15:00	15:15	Role of Chirality in the Self Assembly of Peptide Polymer Architectures via PISA	*Tarek Benkhaled[1], Chaimaa Gomri[1], Mona Semsarilar[1]	1.European institute for membranes-Montpellier University-France
1B	15:15	15:30	Chiral Assemblies of Ag Nanoparticles Inside Polystyrene Nanosheets and Particles	*Takeshi Kawai[1]	1.Tokyo University of Science
1B	15:50	16:05	A Library of High-Entropy-Alloy Nanocrystals with Controlled Facets for Catalysis	*Tung-Han Yang[1]	1.National Tsing Hua University
1B	16:05	16:20	Surfactant & Polymer Free Non-Spherical Silica Microcapsules	Siobhán Wills[1], Natalia Wolfe[2], Madeline Amos[1], Daniele Baiocco[3], Zhibing Zhang[3], Olivier Jean Cayre[2], *Benjamin Tzui Lobel[1, 2]	1.Murdoch University, 2.University of Leeds, 3.University of Birmingham

1B	16:20	16:35	Flash Nanoprecipitation: A Robust Method to Fabricate Magnetic Polymeric Nanoparticles	Soumodeep Biswas[1, 2], Takreem Ahmad Sindhu[1, 3], Haroon Zafar[1], Ethayaraja Mani[2], *Sulalit Bandyopadhyay[1]	1.Norwegian University of Science and Technology (NTNU), 2.Indian Institute of Technology Madras, 3.National University of Sciences and Technology
1B	16:35	16:50	Autocatalytic Reduction Enables the Synthesis of Compositionally Diverse High-Entropy Alloy Nanoparticle Families for Catalysis	*HAN YUAN LIU[1]	1.National Tsing Hua University
1B	16:50	17:05	Design of Hybrid Particles for Extending the Fatigue Lifespan of Thermoplastic Nanocomposites	*Caterina Dasmi[1], Yohan Marotte[2], Christian Garnier[2], Pierre-Yves Dugas[1], Fabrice Brunel[1], Damien Montarnal[1], Elodie Bourgeat-Lami[1]	1.Catalysis, Polymerization Processes & Materials (CP2M), Université Claude Bernard Lyon 1, CPE, CNRS, 2.Université Technologie Tarbes Pyrénées Occitanie (UTTOP)
1B	17:05	17:20	Solution-Processable Borophene-Analog Nanosheets via Interlayer Cation-Assisted Assembly	*Tetsuya Kambe[1], Jumpei Kawaguchi[1]	1.University of Tsukuba
1B	17:20	17:35	Control of PLGA Nanoparticle Size in Flash Nanoprecipitation: Understanding the Roles of Solvent, Concentration, Flow Rate, and Mixing Kinetics	*Haroon Zafar[1], Vishal Dharsan[2], Sulalit Bandyopadhyay[1]	1.Norwegian University of Science and Technology, 2.Indian Institute of Technology-Madras
1B	17:35	17:50	Supramolecular Self-Assembly: Fullerene Crystals from Zero-to-Higher Dimension for Sensing, Energy Storage, and Beyond	*Lok Kumar Shrestha[1]	1.National Institute for Materials Science
Monday, 2nd			**15. [Symposium] Advances in Colloid and Surface Chemistry for Sustainable Polymer Materials (Joint Symposium with Soft Matter and Biosystems Session)**		
1C	10:10	10:40	Polyhydroxyalkanoates: Nature's Living Colloids as Sustainable Thermoplastics for a Circular Economy	*Kumar Sudesh[1]	1.Universiti Sains Malaysia
1C	10:40	10:55	Biobased latex: from natural phenols to radical emulsion polymerization	*Sylvain CAILLOL[1]	1.Institut Charles Gerhardt Montpellier
1C	10:55	11:10	Emulsion Polymerization of a Cardanol-Derived Monomer	*Vincent Ladmiral[1]	1.ICGM, CNRS-ENSCM-Univ Montpellier
1C	11:10	11:25	Correlation Between Particle Structure, Film Formation, and Mechanical Properties in Poly(methyl acrylate-*co*-acrylic acid) Latex Films	*Haruka Minato[1]	1.Okayama University

1C	11:25	11:40	Anisotropic Supramolecular Plastics Prepared from an Undercooled Liquid-Crystalline Phase of a Cholesterol-Based Low-Molecular-Weight Compound	*Kazunori Sugiyasu[1]	1.Kyoto University
1C	11:40	12:10	Hybrid Hydrogel Microbeads for Rapid Atmospheric Water Harvesting and Highly Efficient Desiccation	*Shu Yang[1]	1.University of Pennsylvania
1C	13:30	14:00	Textile Materials and Interfaces for Personalized Healthcare and Sustainability	*Ronghui Wu[1]	1.Nanyang Technological University
1C	14:00	14:15	Evaluation of Cellular Responses to Nano- and Micro Plastics with Oxidized Surface and Elucidation of Their Cytotoxicity Mechanism	*Naoto Washihira[1], Mako Kobayashi[1], Sho Fuji[2], Tadao Tanabe[3], Tsuyoshi Kimura[4], Atsushi Hirano[5], Masaya Yamamoto[1,6]	1.Graduate School of Engineering, Tohoku University, 2.Graduate School of Science, Yamagata University, 3.Graduate School of Engineering and Design, Shibaura Institute of Technology, 4.Graduate School of Biomedical Engineering, Toyo University, 5.National Institute of Advanced Industrial Science and Technology, 6.Graduate School of Biomedical Engineering, Tohoku University
1C	14:15	14:30	Biointerfacial Responses of a Brain-Derived dECM-Engineered Blood-Brain Barrier Model to Oxidized LDPE Nanoplastics	*Yuji ZHAO[1], Mako Kobayashi[1], Naoto Washihira[1], Sho Fujii[2], Tadao Tanabe[3], Tsuyoshi Kimura[4], Masaya Yamamoto[1,5]	1.Grad. Sch. Eng., Tohoku Univ, 2.Sch. Sci., Yamagata Univ, 3.Sch. Eng. Des., Shibaura Inst. Technol, 4.Sch. Biomed. Eng., Toyo Univ, 5.Grad. Sch. of Biomed. Eng., Tohoku Univ
1C	14:30	14:45	Functional Silatranes as a New Type of Building Blocks for Surface Engineering and Polymer Synthesis	*Chun-Jen Huang[1]	1.National Central University
1C	14:45	15:00	Regulating Interfacial Li+ Transport in Composite Polymer Electrolytes via Ceramic Surface Functionalization with Alkyl Sulfonates	*Chih-Kun Huang[1], Li-Jia Lin[1], Chi-cheng Chiu[1]	1.National Cheng Kung University
1C	15:00	15:15	Socio-Technical Frameworks for the Implementation of Nature-Inspired Technologies: Bridging Surface Science and Social Systems for a Nature-Positive Future	*Ryo Kohsaka[1], Yoshinori Nakagawa[2], Yuta Uchiyama[3], Yoshinori Fujihira[4], Kazuhiko Ota[5], Masaki Uchida[1], Yoshiro Azuma[6]	1.The University of Tokyo, 2.Sophia University, 3.Kobe University, 4.Muroran Institute of Technology, 5.Nanzan University, 6.Gifu University
1C	15:15	15:30	Hybrid Core-Shell Nanostructures Combining Colloidal Nanoparticle Organization and Selective MOF Functionality for Environmental Applications	*CHAIMA MAHMOUDI[1], Achraf Delhali[2,1], Abdessamad El Amri[1,2], Neeraj K. Mishra[2], Ayalou H. Assen[2], Youssef Belmabkhout[2], Karim Adil[2,1], Elise Deniau[1]	1.Le Mans University, 2.Mohammed VI Polytechnic University (UM6P)
1C	15:50	16:05	Polypseudorotaxanes Crosslinked by Dynamic Disulfide Bonds: Functionalization of Nanoparticles and Programmable Gels	*Cecile Ayako Dreiss[1], Xiang Xu[1]	1.King's College London
1C	16:05	16:20	High-Strength and Anti-swelling Ion-Conductive PHEMA-*co*-PDDA Hydrogels for Robust Strain Sensing	*Shih-En Chen[1], Chien-Wei Chu[1]	1.National Taiwan University of Science and Technology

1C	16:20	16:35	Formation and Characterization of Emulsion Gels Stabilized by PLA-*b*-PEO-*b*-PLA Triblock Copolymer	*Takaichi Watanabe[1], Hinako Nakayama[1], Atsushi Matsumoto[2], Yuya Iida[1], Tsutomu Ono[1]	1.Okayama University, 2.The University of Fukui
1C	16:35	16:50	Morphology Evolution During the Drying of Polyurethane Dispersions for High-Performance Coatings	*Max Allen[1], Ellen J. Quane[2], Niels Elders[3], Andrew J. Parnell[1], Alice Roberson[1], Anthony J. Ryan[1], Oleksandr O. Mykhaylyk[1]	1.The University of Sheffield, 2.Lund University, 3.Akzo Nobel Car Refinishes B.V.
1C	16:50	17:05	Linking Brush Structure to Lubrication: Neutron Reflectometry and Frictional-AFM of Two Zwitterionic Brushes Across Salt Regimes	*Edwin Christopher Johnson[1], Zac Di Pietro[1], Isabella Swadling[1], Geran Dunlop[1], Stuart Prescott[2], Andrew Nelson[3], Grant Webber[1], Erica Wanless[1]	1.University of Newcastle, 2.University of New South Wales, 3.ANSTO
1C	17:05	17:20	Non-Classical Behaviour of an Upper Critical Solution Temperature Polymer Brush Driven by Interchain Hydrogen Bonding	*Zachary Di Pietro[1], Edwin C. Johnson[1], Andrew Nelson[2], Stuart Prescott[3], Grant B. Webber[1], Robert Chapman[1], Erica J. Wanless[1]	1.University of Newcastle, 2.Australian Centre for Neutron Scattering, ANSTO, 3.University of New South Wales
1C	17:20	17:35	Preparation and Self-Assembly Behavior of Poly(vinyl alcohol)-Based Amphiphilic Random Copolymers Containing Vinyl Laurate Units	*Thi Ngan Vu[1], Shinichi YUSA[1]	1.Department of Applied Chemistry, University of Hyogo
1C	17:35	17:50	Interfacial Photocycloaddition Polymerization:Synthetic Approach of Naturally-derived Degradable Polymer Capsules	*Yukiya Kitayama[1, 2], Misato Yamashita[1], Atsushi Harada[1]	1.Osaka Metropolitan University, 2.JST PRESTO
Monday, 2nd			**5. [Session] Dispersion and Aggregation**		
1D	10:10	10:40	Rheology of highly concentrated dispersions of repulsive particles	*Hiroshi Nakamura[1], Soichiro Makino[1]	1.Toyota Centaral R&D Labs. Inc.
1D	10:40	10:55	Flows of Shear-Thickening Fumed Silica Suspensions	*Widad Belquis Mesbahi[1, 2], Sandra Lerouge[3], Stefano Aime[2], Philippe Bourrianne[1]	1.PMMH, CNRS, ESPCI Paris, Université PSL, Sorbonne Université, Paris Cité, Paris, France , 2.C3M, ESPCI Paris, France, 3.MSC, Université Paris Cité, France
1D	10:55	11:10	Rheo-USAXS Studies on Aggregate Structure of Fumed Silica Induced in Shear Thickening Suspension	Koki Ito[1], Naoyuki Okada[1], Akinori Kodama[1], Keishi Akada[2], *Naoya Torikai[1]	1.Mie University, 2.SPring-8
1D	11:10	11:25	Co-ion Effects on the Yielding Behavior of Negatively Charged Silica Suspensions	*Tomonori Fukasawa[1], Yuki Nishimura[1], Toru Ishigami[1], Kunihiro Fukui[1]	1.Hiroshima University

1D	11:25	11:40	Electric Double-Layer Repulsion Effects on the Rheological Response of Concentrated Colloidal Suspensions	*Ryoichi Ishibashi[1], Takuya Sugimoto[2], Keishi Akada[3], Tatsuya Yamada[4], Shunsuke Sato[1], Motoyoshi Kobayashi[2]	1.Graduate School of Science and Technology, University of Tsukuba, 2.Institute of Life and Environmental Science, University of Tsukuba, 3.Japan Synchrotron Radiation Research Institute, 4.Research Organization for Information Science and Technology
1D	11:40	11:55	Ferroviscous Phase in Active Colloidal Suspensions	Ren Masuda[1], Taichi Kono[1], Jiwon Lee[1], Fumiaki Kobayashi[1], Tomoyuki Nagaya[2], *Yasuyuki Kimura[1]	1.Kyushu University, 2.Oita University
1D	11:55	12:10	Study on the Microscopic Fracture of Whipped Cream under Oscillatory Shear	*Shuji Fujii[1]	1.Toyo University
1D	13:30	13:45	Materials Design of Nonvolatile and Transparent Dense Particle Suspensions for Discontinuous Shear Thickening, Shear Jamming, and Shock Absorption	*Sadaki Samitsu[1], Ryota Tamate[1], Takeshi Ueki[1]	1.National Institute for Materials Science
1D	13:45	14:00	Full Additive Copper Traces by Adhesive Transfer Printing of Pd Nanocolloids	*Yasuyuki Kusaka[1], Yuichi Watanabe[1], Atsushi Hirata[2]	1.AIST, 2.Nihon Denshi Seiki
1D	14:00	14:15	Correlation between Mechanical Properties and Printing Resolution of Ionogel Thin Films for Printable Electronics	*Keito Sato[1], Shintaro Itoh[1], Yasuyuki Kusaka[2], Kenji Fukuzawa[1], Naoki Azuma[1], Hedong Zhang[1]	1.Nagoya University, 2.AIST
1D	14:15	14:30	Ageing and Delayed Collapse of Arrested Colloidal Gels by Vane Rheology and Confocal Microscopy	*Malcolm Faers[1], Rui Cheng[2], Christopher Patrick Royall[2]	1.Bayer AG, 2.Gulliver, ESPCI-Paris, Université PSL
1D	14:30	14:45	Shear-enhanced Elasticity in Lithium-ion Battery Anode Slurry	*Yuya Yamawaki[1], Soichiro Makino[1], Ryohei Seto[1], Hiroyuki Nakano[1], Hiroshi Nakamura[1]	1.Totyota Central R&D Labs
1D	14:45	15:00	Rheological Behavior and Structural Recovery of Kaolinite Suspensions Modified by Additions of Bentonite or Biopolymers	*Alex Kirichek[1], Ahmad Shakeel[1], Claire Chassagne[1]	1.Delft University of Technology
1D	15:00	15:15	Geomimicry: Emergent Mechanics in Earth-Mediated Matter	*Shravan Pradeep[1], Paulo Arratia[1], Douglas Jerolmack[1]	1.University of Pennsylvania
1D	15:15	15:30	Linear Viscoelastic Behavior of Cellulose Nanofiber Suspensions	*Atsushi Matsumoto[1], Komomo Ishiyama[1], Himari Taniguchi[1], Reina Tanaka[3], Tadashi Inoue[2], Shinji Sugihara[1], Yasushi Maeda[1]	1.University of Fukui, 2.The University of Osaka, 3.Forest Products Research Institute

1D	15:50	16:05	Electrophoretic Mobility Assessed Using Different Electrokinetic Methods	*Claire Chassagne[1], Simon Gourdin[1], Gökmen Sanli[1]	1.Delft University of Technology
1D	16:05	16:20	Electrokinetic Properties of "Hard" and "Soft" Particles and Its Relevance to Stability Classification of Dispersions. Zetapotential – Sedimentation Behavior	*Dietmar Lerche[1]	1.LUM GmbH
1D	16:20	16:35	Morphology Control of Golf Ball-Like Particles via Surface Charge Tuning of Colloidal Dimple Templates	Kaho Adachi[1], Keiga Saito[1], Keishi Suga[1], Hikaru Namigata[1], Tom A. J. Welling[1, 2], Daisuke Nagao[1], *Kanako Watanabe[1]	1. Department of Chemical Engineering, Tohoku University, 2.Frontier Research Institute for Interdisciplinary Sciences (FRIS), Tohoku University
1D	16:35	16:50	Impedance Characterization of Mixing-Induced Colloidal State Changes in PEMFC Catalyst Inks	*Akihisa Tanaka[1], Po-Ya Abel Chuang[2], Masao Nagaura[3], Tetsuya Yoshiike[3], Keijiro Sakuramoto[4], Keisuke Nagato[1]	1.The University of Tokyo, 2.University of California, Merced, 3.HIOKI E.E. CORPORATION, 4.HORIBA, Ltd.
1D	16:50	17:05	Colloidal Stability and Surfactant-Hydroxyapatite Interactions in Toothpaste Formulations: A Comparative Study of Ionic Surfactant Systems	*AZMI MOHAMED[1], TRETYA ARDYANI[1, 2], MASANOBU SAGISAKA[3], SEITO OIZUMI[3], LEIDE CAVALCANTI[4]	1.Department of Chemistry, Faculty of Science and Mathematics, Universiti Pendidikan Sultan I, 2.Research Center for Molecular Chemistry, National Research and Innovation Agency (BRIN), 3.Department of Frontier Materials Chemistry, Graduate School of Science and Technology, Hirosaki University, 4.ISIS Pulsed Neutron & Muon Source, STFC Rutherford Appleton Laboratory
1D	17:05	17:20	Protein corona of Hevea brasiliensis field latex	*Tanaporn LEKCHUPOL[1], Jean-Baptiste D'ESPINOSE de LACAILLERIE[1], Nicolas SANSON[1], Supakij Suttiruengwong[2]	1.SIMM ESPCI PSL PARIS, 2.Silpakorn university
1D	17:20	17:35	Association Behavior of Electrolyte Saccharide Chain and β-Lactoglobulin	*Yoshiaki Yuguchi[1], Aoi Tsujino[1], Thuy Thi Thu Thanh[2]	1.Osaka Electro-Communication University, 2.Vietnam Academy of Science and Technology (VAST)
1D	17:35	17:50	Mechanistic Insights into Temperature-Induced Monoclonal Antibody Aggregation	*Vinodya Karunadhika[1, 2, 3], Nimish Pradhan[1, 2, 3], Annmaree Warrender[6], Dharmini Mehta[2, 3], Heidi Elmer Bodnar[2, 3], Thilini Thrimawithana[1], Sally Gras[3, 4], Durga Dharmadana[1, 3], Celine Valery[1, 3, 5]	1.RMIT University, 2.CSL Innovation Pty Ltd, 3.The ARC Digital Bioprocess Development Hub, 4.University of Melbourne, 5.UNSW Sydney, 6.ANSTO Australian Synchrotron
Monday, 2nd			**1. [Session] Surfactants and Amphiphilic Materials**		
1E	10:10	10:25	Enhancing Adsorption and Surface Tension Reducing Ability of Fluorine-free Surfactants by Modifying Hedgehog Tails and Head group	*Masanobu Sagisaka[1], Hinata Komiyama[1], Suzuna Osaki[1], Nina Kovalchuk[2], Mark Simmons[2], Shirin Alexander[3], Julian Eastoe[4]	1.Hirosaki University, 2.University of Birmingham, 3.Swansea University, 4.University of Bristol
1E	10:25	10:40	Adsorption and Aggregation Properties of Novel Polyoxyethylene Alkyl Ether Phosphonic Acid Salt Surfactants Containing O-P Bond	*Risa Kawai[1], Kazuma Kogiso[2], Goro Yamamoto[2], Tomokazu Yoshimura[1]	1.Nara Women's University , 2.Sanwayuka Industry Corporation

1E	10:40	10:55	Bile Acid–Peptide Amphiphiles as Versatile Chiral Self-Assembling Building Blocks	*Luciano Galantini[1], Lorenzo Augusto Rocchi[1], Claudia Marconi[1], Valerio La Gambina[1], Milad Radiom[2], Alessandra Del Giudice[1], Maria Chiara di Gregorio[1], Iolanda Francolini[1], Karin Schillen[3], Raffaele Mezzenga[2], Anita Scipioni[1]	1.Sapienza University of Rome, 2.ETH Zürich, 3.Lund University
1E	10:55	11:10	Clouding Phenomenon in Polyglycerol Surfactant/Oil System	*Yuji Yamashita[1], Ryota Maruo[1], Satoko Ito[2], Yuichi Sakanishi[1, 2], Tomonori Higuchi[2], Yuichi Sugizaki[1]	1.Kanagawa University, 2.Taiyo Kagaku Co., Ltd.
1E	11:10	11:25	Linker Chemistry to Control Surfactant Self-assembly	*Ashley P Williams[1, 2], Viviane Lutz-Bueno[1], Jonathan M Faber[2], Kellie L Tuck[2], Rico F Tabor[2]	1.Paul Scherrer Institut, 2.Monash University
1E	11:25	11:40	Supramolecular Polymer Bottlebrushes: Investigation of Stability	*Alina Kasberg[1], Lisa M. Günther[2, 3], Johannes C. Brendel[1, 3]	1.Macromolecular Chemistry I, University of Bayreuth, Bayreuth, Germany, 2.Spectroscopy of Soft Matter, University of Bayreuth, Bayreuth, Germany, 3.Institute of Macromolecular Research (BIMF) and Bavarian Polymer Institute (BPI), University of Bayreuth, Bayreuth, Germany
1E	11:40	12:10	Photoresponsive Azobenzene and Azonaphthene Surfactants: Trailblazers for New Detergent Design	*Rico Tabor[1]	1.Monash University
Monday, 2nd			**14. [Symposium] Food Science from the Perspective of Colloid and Interface Science**		
1E	13:30	14:00	Role of Oil Polarity on the Interfacial Aggregation of Surfactants, Proteins, and Particles at Fluid Interfaces	Jotam Bergfreund[1], Pascal Bertsch[1], Li-Hsuan Lin[1], *Peter Fischer[1]	1.ETH Zurich
1E	14:00	14:15	Molecular Level Insights into Food-Related Liquid Interfaces via Sum-Frequency Generation Spectroscopy	*Takayuki Miyamae[1]	1.Chiba University
1E	14:15	14:30	Microscopic Structure and Dynamics of Soy Milk	*Yasuyuki Maki[1]	1.Kyushu University
1E	14:30	14:45	Elucidating Plant Protein Behavior at Oil-Water Interfaces with Rheological and Scattering Methods for Sustainable Emulsions	*Li-Hsuan Lin[1], Pascal Bertsch[2], Peter Fischer[1]	1.ETH Zurich, Institute of Food, Nutrition and Health, 2.University of Fribourg, Department of Chemistry
1E	14:45	15:00	Evaluation of Surface Segregation in an Egg White Model by Neutron Reflectometry	*Norifumi YAMADA[1], Miki Abe[1, 2], Yohei Kawabata[3]	1.High Energy Accelerator Research Organization, 2.Tokyo University of Science, 3.Rakuno Gakuen University

1E	15:00	15:15	Rheology-guided Colloidal Design of Plant-protein Interfaces and Gel Networks for Structured Foods	*Yong Wang[1], Canice Chun-Yin Yiu[1], Kinza Mukhtar[1], Cordelia Selomulya[1]	1.UNSW Sydney
1E	15:15	15:30	Salt-Induced Microstructuring Effects on Plant Protein Gels	*Xue Dong[1], Yong Wang[1], Xiaodong Chen[2], Cordelia Selomulya[1]	1.UNSW Sydney, 2.Tsinghua University
1E	15:50	16:05	Understanding Pulse Protein Behaviour at the Air-Water Interface: A Transition Toward Sustainable Foam Systems	*Chaiwut Gamonpilas[1], Ployfon Boonkor[2], Jasper Landman[2], Leonard M.C. Sagis[2], Janjira Buakaew[1], Pawadee Methacanon[1]	1.National Metal and Materials Technology Center, 2.Laboratory of Physics and Physical Chemistry of Foods, Wageningen University
1E	16:05	16:20	Proteins at Liquid Interfaces: Toward Understanding Meringue Formation	*Yohko F. Yano[1]	1.Kindai University
1E	16:20	16:35	Rapid Food Analysis Using Microemulsion Electrochemistry	*Masashi Kunitake[1], Aimi Kimura[1], Eisuke Kuraya[2]	1.Kumamoto University, 2.National Institute of Technology, Okinawa College
1E	16:35	16:50	Supramolecular self-assembly of recombinant β -casein fusion proteins investigated using SAXS	*Ronald Gebhardt[1]	1.RWTH Aachen University
1E	16:50	17:05	Double-Network Emulsion Gels as Enhanced Analogues of Animal-Derived Foods	*Canice Yiu[1], Yong Wang[1], Cordelia Selomulya[1]	1.The University of New South Wales
1E	17:05	17:20	Foam Formation by Gluten-Free Starch Suspension	*Masumi Villeneuve[1]	1.Graduate School of Integrated Sciences for Life, Hiroshima University
1E	17:20	17:35	Probing the pH-Induced Reconfiguration of Adsorbed Gelatin Onto a Colloidal Interface	*Lester Canque Geonzon[1], Shingo Matsukawa[2], Motoyoshi Kobayashi[1]	1.University of Tsukuba, 2.Tokyo University of Marine Science and Technology
1E	17:35	17:50	Food-grade microgels: structural and interfacial properties towards colloidally stable new delivery systems	*Eleni P Kalogianni[1], Kalliopi Zdraga[1]	1.International Hellenic University
Monday, 2nd			**6. [Session] Solid Surfaces: Wetting, Adsorption, Catalysis, Adhesion, and Electrochemistry**		

1F	10:10	10:40	Structure Control of Metal Clusters and Their Application in Energy and Environmental Catalysts	*Yuichi Negishi[1]	1.Tohoku University
1F	10:40	10:55	Alkaline Oxygen Electroreduction Catalyzed by Sub-nano Alloy Particles	*Tatsuya Moriai[1], Takuto Nakamura[1], Fumiko Saika[1], Mayu Kobayashi[1], Masataka Yoshida[1], Takane Imaoka[1], Kimihisa Yamamoto[1]	1.Institute of Science Tokyo
1F	10:55	11:10	Controlling surface charge for particle aggregation of photocatalyst powders to improve Z-scheme water splitting activity	*Shunya Yoshino[1], Hideki Kato[1]	1.Tohoku University
1F	11:10	11:25	Highly Active and Stable Nickel-Based Nanocatalysts for Liquid-Phase Hydrogenation Reactions	*Sho Yamaguchi[1]	1.Kobe University
1F	11:25	11:40	ChemOntology: Formalizing Chemical Reasoning for Autonomous Potential Energy Surface Exploration	*Pinku Nath[1], Yuriko Ono[1], Yu Harabuchi[1], Yasunori Yamamoto[1], Satoshi Maeda[1], Tetsuya Taketsugu[1], Masaharu Yoshioka[1]	1.Hokkaido University, Japan
1F	11:40	11:55	Impurity-tolerance electrochemical CO_2 reduction by Mn-complex catalyst enabled by hydrophobic nano-carbon support	*Teppei Nishi[1], Naonari Sakamoto[1], Keita Sekizawa[1], Shunsuke Sato[1], Takeshi Morikawa[1]	1.TOYOTA CENTRAL R&D LABS., INC.
1F	11:55	12:10	Design of Carbon-Based Electrocatalysts with Zeolitic Imidazole Frameworks	*Jesús Barrio Hermida[1]	1.Department of Chemical Engineering and Centre for Processable Electronics, Imperial College London, SW7 2AZ, London, UK
1F	13:30	13:45	Effects of Interstitial Ions and Molecules on Phase Transition and Magnetic Interaction of Cyanidemetallate-complexes	*Koji Nakabayashi[1, 2, 3], Kazuki Nakamura[2, 3], Tatsuya Konishi[2], Laurent Guérin[3], Gaël Privault[3], Marius Hervé[3], Eric Collet[3], Shin-ichi Ohkoshi[2, 3]	1.University of Hyogo, 2.The University of Tokyo, 3.University of Rennes, DYNACOM
1F	13:45	14:00	Topological Interlocking via Solution-Based Porous Architectures	*Shunto Arai[1]	1.National Institute for Materials Science
1F	14:00	14:15	Ligand-Exchange Reaction of Tris(2-methyl-8-quinolinolato)indium(III) at Ice/Organic Solvent Interfaces	*Arinori Inagawa[1], Nanami Watanabe[1], Nobuo Uehara[1]	1.Utsunomiya University
1F	14:15	14:30	Bi-Directional Assembly of Boron Nitride μ-Platelets by Micro-Molding for Advanced Thermal Interface Materials	*Tae-il Kim[1]	1.Sungkyunkwan University (SKKU)

1F	14:30	14:45	Photoconductive Nonpolar Liquids Based on Azobenzene	*Carlo Rigoni[1], Promeet K. Saha[1], Jinyu Sheng[2], Rafal Klajn[1]	1.Institute of Science and Technology Austria, 3400 Klosterneuburg, Austria, 2.College of Chemistry, Chemical Engineering and Materials Science, Soochow University, Suzhou, Jiangsu 215123, China
1F	14:45	15:00	Reactive Polymer Enables Anion-Directed Interphase Engineering for Fast-Charging Sodium-Ion Batteries	*Junlong Huang[1], Maria-Magdalena Titirici[1, 3], Hirotomo Nishihara[1, 2]	1.Advanced Institute for Materials Research (WPI-AIMR), Tohoku University, 2.Institute of Multidisciplinary Research for Advanced Materials (IMRAM), Tohoku University, 3.Department of Chemical Engineering, Imperial College London
1F	15:00	15:15	Adhesive Electroless Plating based on Functionalized Pd Nanoparticles and Two-step Surface Modification	*Tzu Chien Wei[1, 2]	1.Department of Chemical Engineering, National Tsing Hua University, 2.Research Center of Critical Issues, Academia Sinica
1F	15:15	15:30	Open-microcombinatorial analysis of critical points of crystal growth for organic molecules in non-volatile and volatile solvents	*Satoshi Watanabe[1], Satoshi Masunaga[2], Shun Inouchi[2]	1.Naitonal Institute of Technology, Tomakomai College, 2.Kumamoto University
Monday, 2nd			**17. [Symposium] Nanostructures-Based Interfacial Energy and Separation Science**		
1F	15:50	16:20	Asdvanced in Sustainable Materials for Energy Storage and Conversion	*Magda Titirici[1]	1.Imperial College/Tohoku University
1F	16:20	16:35	Controlling the Synthesis and Purification of Carbon Dots towards Multiple Applications	*Alberto Bianco[1]	1.CNRS
1F	16:35	16:50	Investigating the Effect of Heteroatom Doping on the Sodium Storage Mechanism and the Solid Electrolyte Interphase in Hard Carbon Anodes for Sodium-Ion Batteries	*Marie-Louis Reich[1], Magda Titirici[1], Bethan Davies[1]	1.Imperial College London
1F	16:50	17:05	Functionalized Carbon Nanostructures as Chemically Programmable Interfaces	*Elena Bekyarova[1]	1.University of California, Riverside
1F	17:05	17:20	Growth-Pathway-Guided Design of Self-Standing Thick Cathodes for High-Areal-Capacity Li-O_2 Batteries	*Meng Wang[1]	1.Tohoku University
1F	17:20	17:35	Crystalline Quinone Derivative Electrodes for Aqueous Proton Batteries	*Daisuke Takimoto[1], Kaiya Nakasone[1], Yuka Taira[1]	1.University of the Ryukyus

1F	17:35	17:50	A Scalable Route to Hydrophobic Graphene Quantum Dots via Low-Temperature CVD on TiO_2	*Takeharu Yoshii[1], Mengxuan Zhang[1], Takayuki Nakamuro[2], Junki Ochi[3], Takuji Hatakeyama[3], Hirotomo Nishihara[1]	1.Tohoku University, 2.Hiroshima University, 3.Kyoto University
Monday, 2nd			**16. [Symposium] Nanocelluloses: Science and Technology**		
1G	10:10	10:40	Carboxy Group-Rich Cellulose Fibers and Nanofibers Prepared by Using New Aqueous Catalytic Oxidation	*Akira Isogai[1], Korawit Chitbanyong[1], Pavitra Thevi Arnandan[1], Runqing Hou[1], Izumi Shibata[1], Miyuki Takeuchi[1], Masato Saito[2], Hiroyuki Fukasawa[2]	1.The University of Tokyo, 2.Industrial Research Institute of Shizuoka Prefecture
1G	10:40	10:55	3D Imaging and Understanding the Structure of the Chiral Nematic Assembly of Cellulose Nanocrystals in Suspension using Second Harmonic Generation Microscopy	Thibaut Legat[1, 2], Stijn Van Cleuvenbergen[2], *Wim Thielemans[1]	1.Department of Chemical Engineering, KU Leuven, 2.Department of Chemistry, KU Leuven
1G	10:55	11:10	Cellulose and Chitin Nanowhiskers: Potentials of "Non-Filler" Lineups	*Jun ARAKI[1]	1.Shinshu University
1G	11:10	11:25	Multiple Factors Simultaneously Affect the Thermal Conductivity of Cellulose I and II Materials	*Nana Koda[1], Kazuho Daicho[2], Noriyuki Isobe[3], Kojiro Uetani[1]	1.Tokyo University of Science, 2.The University of Tokyo, 3.Japan Agency for Marine-Earth Science and Technology
1G	11:25	11:40	Bilayer Structure of Glass and Bacterial Cellulose Films to Enhance the Plastic Deformation of Glass	*Ryota Kyoi[1], Kojiro Uetani[1]	1.Tokyo University of Science
1G	11:40	11:55	Catalytic Oxidation of Wood Cellulose Fibers with Sodium Dichloroisocyanurate in Water at pH 9	*Runqing Hou[1], Korawit Chitbanyong[1], Pavitra Thevi Arnandan[1], Izumi Shibata[1], Miyuki Takeuchi[1], Masato Saito[2], Hiroyuki Fukasawa[2], Akira Isogai[1]	1.the University of Tokyo, 2.Industrial Research Institute of Shizuoka Prefecture
1G	11:55	12:10	TEMPO-Catalyzed Oxidation of Oil Palm Empty Fruit Bunch Materials with Different Residual Lignin and Hemicellulose Contents	*Pavitra Thevi Arnandan[1], Runqing Hou[1], Korawit Chitbanyong[1], Izumi Shibata[1], Miyuki Takeuchi[1], Akira Isogai[1]	1.The University of Tokyo
1G	13:30	14:00	Modulating Colloidal Stability and Rheology in Nanocellulose-stabilized Multiphasic Systems via High-Pressure Homogenization	*Marc Delgado-Aguilar[1]	1.LEPAMAP-PRODIS research group, University of Girona
1G	14:00	14:15	Miniaturization of Bacterial Cellulose Fibrils by Combining Liquid NH_3 and TEMPO Oxidation Treatments	*Nanako Miki[1], Nana Koda[1], Kotaro Takanashi[1], Takashi Ikuno[1], Kojiro Uetani[1]	1.Tokyo University of Science

1G	14:15	14:30	Crystal Polymorphs of Cellulose Nanomaterials Affect the Through-Plane Thermal Conductive Properties of Their Films	*Kaito Takeshita[1], Nana Koda[1], Kazuho Daicho[2], Kotaro Takanashi[1], Takashi Ikuno[1], Kojiro Uetani[1]	1.Tokyo University of Science, 2.The University of Tokyo
1G	14:30	14:45	Structure and Molar-mass Analysis of Various Cellulose Samples by SEC/MALLS/RI System	*Gaoyuan Hou[1, 2], Korawit Chitbanyong[2], Izumi Shibata[2], Miyuki Takeuchi[3], Yuko Ono[2], Silvia Vignolini[1], Akira Isogai[2]	1.Department of Sustainable and Bio-Inspired Materials, Max Planck Institute of Colloids and Interfaces , 2.Department of Biomaterials Science, The University of Tokyo, 3.Institute of Engineering Innovation, The University of Tokyo
1G	14:45	15:00	Polymer-based Disc-shaped Particles for Potential Heat Storage Material	*Emiko Mouri[1], Ryohei Iwahisa[1], Teruyuki Nakato[1]	1.Kyushu Institute of Technology
1G	15:00	15:30	Cellulose Nanofibers as Interfacial Architects: From Surface Engineering to Functional Colloidal Design	*Jin Woong Kim[1]	1.Sungkyunkwan University
1G	15:50	16:20	Biomedical Applications of Polysaccharide Nanofibers	Qi Li[1], Mayumi Hatakeyama[2], *Takuya Kitaoka[2]	1.Hubei University, 2.Kyushu University
1G	16:20	16:35	Nanocellulosic hybrid hydrogels and cryogels for biomedical applications	*Seyed Mohammad Amin Ojagh[1], Thoe G.M. van de Ven[1]	1.McGill University
1G	16:35	16:50	Direct Ink Writing of Nanocellulose for Structural and Functional Materials Development	*Feng Jiang[1], Zhengyang Yu[1], Changfeng Cheng[1]	1.The University of British Columbia
1G	16:50	17:05	Hydrogels, Films, and Filaments Consisting of Cellulose Nanofibers	*Toyoko Imae[1]	1.National Taiwan University of Science and Technology
Tuesday, 3rd			**Plenary Lecture**		
2S	09:00	09:50	Insights into Specific Ion Effects and Hypersaline Environments from Responsive Polymer Brushes	*Erica J. Wanless[1]	1.University of Newcastle
Tuesday, 3rd			**Plenary Lecture**		
2S	13:30	14:20	Integrating Simulation and Experiment to Understand Biomolecular Recognition and Nanostructure Assembly	*Hendrik Heinz[1]	1.University of Colorado Boulder

Tuesday, 3rd			3. [Session] Soft Matter and Biosystems		
2A	10:10	10:25	Directed Assembly Of Tetrahedral Patchy Particles For Visible Light Photonic Crystals	*Gregor Posnjak[1]	1.Ludwig-Maximilian-University Munich
2A	10:25	10:40	Multi-Source Evanescent Wave Scattering for Fast, Label-free Imaging in Complex Materials and Soft Matter	Tanweepriya Das[2], Dali Quan[1], *Raymond Dagastine[1, 2]	1.the University of Melbourne, 2.Tiny Bright Things
2A	10:40	10:55	Visualizing Hydrodynamics and Friction with Single-Particle Characterization of Colloidal Rotational Diffusion	*Taiki Yanagishima[1, 2], Ivo Buttinoni[3], Roel Dullens[4]	1.Tokyo Metropolitan University, 2.Kyoto University, 3.Heinrich-Heine University, 4.Radboud University
2A	10:55	11:10	Hierarchical Deformation and Mechanical Response of Aerogels under Isotropic Expansion	Koichi Hirata[1, 2], *Takeaki Araki[1]	1.Kyoto University, 2.Tokyo Electric Power Services Co., Ltd.
2A	11:10	11:25	Surface Carbamate Modification of Cellulose Nanofiber for Controlling the Twisted Structure	*Waki Tsuruta[1], Yoshiko Takenaka[1], Keita Sakakibara[1]	1.AIST
2A	11:25	11:40	Bacterial Cellulose-Templated Protein-Polysaccharide Complexes for Textured Plant-Based Meat	*Yuwaporn Pinyakit[1, 2], Voravee Hoven[1, 3]	1.Department of Chemistry, Faculty of Science, Chulalongkorn University, Phayathai Road, Pathumwan, Bangkok 10330, Thailand, 2.Present address: Aston Institute for Membrane Excellence, Aston University, Birmingham, B4 7ET, UK, 3.Center of Excellence in Materials and Bio-interfaces, Chulalongkorn University, Phayathai Road, Pathumwan, Bangkok 10330, Thailand
2A	11:40	11:55	A Super-Adhesive Air Filter with Capillarity-mediated Spontaneous Particle Absorption via Dynamic Bond Exchange	*Junyong Park[1], Hyeri Jeon[1], Hyunwoong Park[1], Ji Min Lee[1], Yeomyung Yoon[2], Gyeong Hwan Choi[2], Sazzadul A. Rahat[3], Dong Wook Lee[4], Sohdam Jeong[4], Jonathan T. Pham[3], Chae Bin Kim[2, 5], Sanghyuk Wooh[1]	1.Chung-Ang University, 2.Pusan National University, 3.University of Cincinnati, 4.Dong-Eui University, 5.Pusan National University Yangsan Hospital
2A	11:55	12:10	Molecular Photoswitches for Light-Controlled Helicity and Rheology in Soft Matter	*Yuna Kim[1]	1.Utsunomiya University
2A	14:40	14:55	Dynamics of Intermediate Water in Biocompatible Poly(2-methoxyethyl acrylate) Revealed by Quasi-Elastic Neutron Scattering	*Hideki Seto[1, 2], Daiki Murakami[3], Taiki Tominaga[1], Shohei Shiomoto[4], Masaru Tanaka[5]	1.Comprehensive Research Organization for Science and Society, 2.High Energy Accelerator Research Organization, 3.Kindai University, 4.Tokyo University of Science, 5.Kyushu University
2A	14:55	15:10	Controlling Crystallization for Improved Cryopreservation	*Saffron Bryant[1], Amanda N. Abraham[1], Izabela Mił ogrodzka[1], Miyah N. Awad[1], Tamar L. Greaves[1], Gary Bryant[1]	1.RMIT University

2A	15:10	15:25	Rapid Microfluidic Osmotic Compression of Proteins to Establish Equations of State and Phase Diagrams	*Yevgeniya Karibjanova[1], Martine Meireles[1], Kevin Roger[1], Sébastien Teychené[1], Isaac Rodriguez-Ruiz[1], Yannick Hallez[1]	1.Laboratoire de Genie Chimique de Toulouse
2A	15:25	15:40	Thermodynamic Characterization of Two Adhesins Responsible for Most Catheter-Associated Urinary Tract Infections.	*T Brian Cavitt[1], Malak Hauter[1], Maria Gracia Galue[1], Audrey Cox[1], W Karysma Phelps[1], Nanakyen Favour Dayit[1]	1.Lipscomb University
2A	15:40	15:55	Coarse-Grained Molecular Simulations of Lipid-Based Colloidal Interfaces: Miscibility, Sorting, and Membrane Remodeling	*Wataru Shinoda[1]	1.Okayama University
2A	15:55	16:10	A Self-Assembly Association Model for a Chaperone Protein	Marija Dubackic[1], Andreas Carlsson[1], Sara Linse[1], Ulf Olsson[1], *Jon Pallbo[1]	1.Lund University
2A	16:10	16:25	Uncovering The Bacterial Membrane-binding Activity Of Peptide LTX-315 Using Lipid Deuteration And Polarized Neutron Reflectometry	*Anna Stephens[1], Tommy Nylander[1]	1.LUND UNIV - DEPT CHEMISTRY, PHYSICALCHEMISTRY
2A	16:25	16:40	Molecular Permeability and Catalytic Activity on Enzyme-Encapsulated Zwitterionic Polymer Hydrogels	*Madoka Takai[1], Xuejin Huang[1], Yinan Luan[1], Yuya Fukui[3], Yan Xu[2]	1.The University of Tokyo, 2.Osaka Metropolitan University, 3.Gel Coat Biomaterials
2A	16:40	16:55	Polymer-Based *In Situ* Forming Depots Via Solvent Exchange: Tuning Drug Release Through Block Copolymer Composition (BEPO® Technology)	*Pierre Berto[1]	1.MedinCell
2A	16:55	17:10	Sol-Gel Switchable Alginate-Boronic Acid Hydrogels for Injectable Depot Formation and Disease-Responsive Drug Delivery	*Marta Gonçalves[1], Seulgi Kim[1], Jin Woong Kim[1]	1.Sungkyunkwan University
2A	17:10	17:25	Structural Investigation of Protein-Zwitterionic Surfactant Complexes applying in-line SEC-SANS Setup	*Anastasiia Fanova[1], Georg Brandl[1], Hiroki Iwase[2], Shin-ichi Takata[3], Aurel Radulescu[1]	1.Jülich Centre for Neutron Science at Heinz Maier-Leibnitz Zentrum (JCNS-4), Forschungszentrum Jülich, 2.Neutron Science and Technology Center, Comprehensive Research Organization for Science and Society (CROSS), 3.Materials and Life Science Division, Japan Accelerator Research Complex J-PARC
2A	17:25	17:40	Nanomechanical Characterization of Bio-polymeric Suspended Nanofibers and Humidity-induced Glass Transition	*Benjamin Ignacio Schleyer-Thiers[1], Sebastián Véliz[2], Tomas P. Corrales[1]	1.Departamento de Física, Universidad Técnica Federico Santa María, 2.Facultad de Ciencias, Universidad de Valparaíso
Tuesday, 3rd			**4. [Session] Fine Particles, Nanoparticles and Nanomaterials**		

2B	10:10	10:40	Bandgap Engineering of I-III-VI Quantum Dots via Size and Composition Control for Enhanced Photofunctionality	*Tsukasa Torimoto[1], Kazutaka Akiyoshi[1], Tatsuya Kameyama[1], Taro Uematsu[2], Susumu Kuwabata[2]	1.Nagoya University, 2.Osaka University
2B	10:40	10:55	LSPR Properties of Intermetallic Nanoparticles Beyond Composition-Weighted Dielectric Function Predictions	*Haruka Takekuma[1], Hyunji Lee[1], Tatsuki Fukuyama[1], Ryota Sato[1], Toshiharu Teranishi[1]	1.Kyoto University
2B	10:55	11:10	Agglomeration Efficacies of Simple Salts on Charged Gold Nanocrystals with Mixed Ligand Shells: A High-Throughput Study	*Bart-Jan Niebuur[1], Albenc Nexha[1], Simon Blum[1], Tobias Kraus[1, 2]	1.INM - Leibniz-Institute for new Materials, Saarbrücken, Germany, 2.Colloid and Interface Chemistry, Saarland University, Saarbrücken, Germany
2B	11:10	11:25	Enhanced Near-Infrared Photoluminescence of Ag_8GeS_6 Quantum Dots via InS_x/ZnS Double-Shell Passivation	*NURMANITA RISMANINGSIH[1], Masayuki Soto[1], Kazutaka Akiyoshi[1], Tatsuya Kameyama[1], Norikazu Fujihira[2], Tsukasa Torimoto[1]	1.Nagoya University, 2.Murata Manufacturing Co., Ltd.
2B	11:25	11:40	Crystallinity control of Pd-Si NPs and its effect on catalytic properties	*Kenta Ikeda[1], Megumi Mukoyoshi[1], Takaaki Toriyama[2], Tomokazu Yamamoto[2, 3], Yasukazu Murakami[2, 3], Shogo Kawaguchi[4], Kubota Yoshiki[5], Hiroshi Kitagawa[1]	1. Grad. Sci., Kyoto university, 2.URC, Kyushu Univ., 3.Grad. Eng., Kyushu Univ., 4.JASRI, 5.Grad. Sci., Osaka Metropol. Univ.
2B	11:40	11:55	Discovery and Mechanistic Study of Pd-based Ordered Alloy Nanoparticles with *A*13-type Structure	*Dingchen Wen[1], Kenshi Matsumoto[1], Yasutomi Tatetsu[2], Toshiharu Teranishi[1, 3]	1.Institute for Chemical Research, Kyoto University, 2.Department of Health Informatics, Meio University, 3.Graduate School of Science, Kyoto University
2B	11:55	12:10	In-situ TEM Observation of Structural Transition in Alloy Nanoparticles	*Mai Thanh Nguyen[1], Tetsu Yonezawa[1]	1.Hokkaido University
2B	14:40	14:55	Plasmon-Enhanced Fluorescence Through Bottom-Up Co-Assembly of Au and CeO2 Nanocrystals Into Binary Hierarchical Structures	*Luigi Paduano[1, 2], Alessandro Cangiano[1, 2], Noemi Gallucci[1, 2], Nathan Cowieson[3]	1.University of Naples Federico II, 2.CSGI, Centre for Colloid and Surface Science, 3.Diamond Light Source, Didcot, Oxfordshire
2B	14:55	15:10	Formation of Hierarchical Micro/Macropores in Semiconductor Nanocrystal Superlattices by Stepwise Chemical Treatment	*Nao Nagai[1], Masaki Saruyama[1, 2], Toshiharu Teranishi[1, 2]	1.Graduate School of Science, Kyoto University, 2.Institute for Chemical Research, Kyoto University
2B	15:10	15:25	Synthesis of Au-Ni Composite Nanoparticles via an Ionic Liquid/Metal Sputtering Technique for Electrocatalytic Urea Oxidation	*HannahGrace Geronimo Necesito[1], Kazutaka Akiyoshi[1], Tsukasa Torimoto[1]	1.Nagoya University
2B	15:25	15:40	Temperature-Controlled Formation of $L1_2$ Intermetallic Atomic Layers on Cu Nanocubes for Acidic Hydrogen Evolution	*ChengYu Wu[1], ZongYing He[2], TungHan Yang[1, 2]	1.National Tsing Hua University, Department of Chemical Engineering, 2.National Tsing Hua University, College of Semiconductor Research

2B	15:40	15:55	Ligand–Anisotropy–Driven Structural Reorganization of Dendronized Gold Nanoparticle Monolayers at the Air/Water Interface	*Rina Sato[1, 2, 3], Joshua Reed[2], Emanuel Schneck[2], Kiyoshi Kanie[1, 4]	1.IMRAM, Tohoku University, 2.IPKM, TU Darmstadt, 3.ICYS, National Institute for Materials Science, 4.SRIS, Tohoku University
2B	15:55	16:10	Explorations on the Formulation of Covalent Organic Frameworks (COF) as Particles Dispersed in Aqueous Media	*Carlos Rodriguez–Abreu[1, 2], Fatemeh Soleimani[1, 2], Jordi Esquena[1, 2]	1.Institute for Advanced Chemistry of Catalonia, Spanish National Research Council, 2.Networking Research Center on Bioengineering, Biomaterials and Nanomedicin, CIBER BBN, ISCIII
2B	16:10	16:25	Amine–Triggered Formation of Polyphenol Colloidal Particles	*Kenichi Niikura[1], Hiroto Fujinuki[1], Kentaro Ishii[1], Osuke Aoto[1], Ayumi Wazawa[1], Chisaki Nakaji[1]	1.Nippon Institute of Technology
2B	16:25	16:40	Surface Properties of Silica Nanoparticle Dispersions in the Presence of CTAB and Multivalent Ions.	*Libero Liggieri[1], Carlo Carbone[1], Francesca Ravera[1], Pascal Tomasella[2], Giovanni Lucifora[2], Giovanni Li Destri[2], Eva Santini[1]	1.CNR – Institute of Condensed Matter Chemistry and Technologies for Energy, Genova – Italy, 2.Department of Chemistry, University of Catania, Catania – Italy
2B	16:40	16:55	Versatile Formation of Nanoparticle–Based Capsule Structures Via Self–Assembly at Solute–Induced Liquid–Liquid Interface	*Takehiro Yachi[1], Masaki Sakai[1], Kuniharu Ijiro[2], Hideyuki Mitomo[2], Kiyoshi Kanie[1, 3]	1.IMRAM, Tohoku University, 2.RIES, Hokkaido University, 3.SRIS, Tohoku University
2B	16:55	17:10	Circularly Polarized Light–Enhanced Oxygen Reduction Reaction on Chiral Plasmonic Au Yolk–Hollow Pt Shell Nanoparticles	*Yi Chen[1], Kazutaka Akiyoshi[1], Tatsuya Kameyama[2], Tsukasa Torimoto[1]	1.Nagoya University, 2.Shinshu University
2B	17:10	17:25	Adsorption–Engineered Quaternary Alloy Nanoparticles for Efficient and CO–Tolerant Alkaline Hydrogen Oxidation	*Yunshan Tsai[1], Tunghan Yang[1]	1. National Tsing Hua University
2B	17:25	17:40	Lyotropic Liquid Crystals Alignment using Magnetite NPs for Production of Anisotropic Mesoporous Materials	Gianluca Mazzotta[1], Andrea Dodero[1], *Marco Lattuada[1]	1.University of Fribourg
Tuesday, 3rd			**15. [Symposium] Advances in Colloid and Surface Chemistry for Sustainable Polymer Materials (Joint Symposium with Soft Matter and Biosystems Session)**		
2C	10:10	10:40	Mechano–Responsive Colloidal Gels	*Andrij Pich[1, 2]	1.DWI Leibniz Institute for Interactive Materials, 2.RWTH Aachen University
2C	10:40	10:55	Dynamic Polymer Interfaces for On–Demand Enzymatic Degradation and Sustainable Materials	*Yoshinori Takashima[1]	1.The University of Osaka

2C	10:55	11:10	Transforming Phase-Separated Structures of Diblock Copolymers by Backbone Degradation	*Hiroki Degaki[1], Tsuyoshi Koga[1]	1.Kyoto University
2C	11:10	11:25	Baroplastics as Pressure-Responsive Plasticizers for Sustainable Polymer Processing	*Ikuo Taniguchi[1]	1.Kyoto Institute of Technology
2C	11:25	11:40	Recyclable Tough Polymer Materials Reinforced by Dissociable Super-Colloidal Nanofibers	*Nobuyoshi Miyamoto[1, 2, 3], Yu Ide[2], Takuya Kamigaki[1]	1.Department of Life, Environment and Applied Chemistry, the Graduate School of Engineering, Fukuoka Institute of Technology, 2.Department of Material Production Systems Engineering, Graduate School of Engineering, Fukuoka Institute of Technology, Japan., 3.WPI-SKCM2, Hiroshima Univ., Japan.
2C	11:40	11:55	Colloidal Crystallization: Influence of Catalytically Active Colloids on the Ordering and Defect Formation Crystals	*Nur Syazaliyana Azali[1], Stephen Ebbens[1]	1.The University of Sheffield
2C	11:55	12:10	Challenges and Opportunities with Lignin as a Carbon Precursor for Templated Porous Nanoarchitectures	*Laszlo Szabo[1], Mizuki Inoue[2], Edhuan Ismail[2], Yuki Ueda[3], Tsuyoshi Sugita[3], Ryuhei Motokawa[3], Hideaki Takagi[4], Yusuke Matsumoto[1], Thi Thi Nge[1], Yasunori Ohashi[1], Tatsuhiko Yamada[1], Izumi Ichinose[2]	1.Forestry and Forest Products Research Institute, 2.National Institute for Materials Science, 3.Japan Atomic Energy Agency, 4.The High Energy Accelerator Research Organization
Tuesday, 3rd			**13. [Symposium] Microgravity Exploration of Colloid Science for Space Life**		
2C	14:40	15:10	Emulsions in Microgravity: New Insights into Droplet Dynamics and Coalescence from the PASTA/SEEDS ISS Experiment	*Luigi Cristofolini[1]	1.University of Parma
2C	15:10	15:25	Dynamical Heterogeneities as Early Predictors of Emulsion Destabilization as Revealed by DWS in Microgravity	*Davide Orsi[1], Marco Vaccari[1], Daniele Marra[2], Sergio Caserta[2], Stefano Guido[2], Francesca Ravera[3], Eva Santini[3], Libero Liggieri[3], Angeliki Chondrou[4], Margaritis Kostoglou[4], Thodoris Karapantsios[4], Luigi Cristofolini[1]	1.University of Parma, Department of Mathematical, Physical and Computer Sciences, 2.University of Naples Federico II, Department of Chemical Engineering, 3.CNR- Institute of Condensed Matter Chemistry and Technologies for Energy, 4.Aristotle University Thessaloniki, School of Chemistry
2C	15:25	15:55	Colloid-Related Synthesis of Materials for Extraterrestrial Habitats	*Francesca Ravera[1], Eva Santini[1], Michela Elena Pedretti[1, 2], Maria Teresa Buscaglia[1], Libero Liggieri[1], Marco Vaccari[3], Davide Orsi[3], Luigi Cristofolini[3]	1.CNR – ICMATE Institute of Condensed Matter Chemistry and Energy Technologies, 2.University of Genoa – Department of Civil, Chemical and Environmental Engineering, 3.University of Parma – Department of Mathematical, Physical and Computer Sciences
2C	15:55	16:10	Geopolimeric Porous Materials from Lunar Regolith Simulant	*Eva Santini[1], Michela Elena Pedretti[1, 2], Libero Liggieri[1], Francesca Ravera[1]	1.National Research Council – ICMATE, 2.University of Genoa-Department of Civil, Chemical and Environmental Engineering
2C	16:10	16:25	Tracking Aerosol Evolution in Microgravity: Time-Resolved FT-IR and Optical Microtomography Measurements	Charles Graziani[1], Mathieu Nespoulous[1], Renaud Denoyel[1], Nicolas P. Martin[1], Stephan Fauve[2], Christian Chauveau[3], *Mickaël ANTONI[1]	1.Aix-Marseille University, 2.LP ENS-Paris, 3.CNRS-ICARE, University Orléans

2C	16:40	16:55	Clustering of Charged Colloidal Particles in the Microgravity Environment of Space	*Junpei Yamanaka[1], Hiroyuki Miki[1], Teruyoshi Ishigami[1], Honoka Komazawa[1], Akiko Toyotama[1], Tohru Okuzono[1]	1.Nagoya City University
2C	16:55	17:10	Two-Dimensional Colloidal Crystals and Kirara Space Experiments	*Akiko Toyotama[1], Wataru Tsunoda[1], Riko Harada[1], Shinjiro Omori[1], Tohru Okuzono[1], Junpei Yamanaka[1], Hiroaki Tanaka[2], Akiko Tanaka[2], Naohiro Sato[3]	1.Nagoya City Univ., 2.Confocal Science Co., Ltd., 3.Japan Manned Space Systems Corp.
2C	17:10	17:40	Space-Inspired Skincare for a Prosperous Future in Space and on Earth	*Tomoki Igari[1]	1.POLA Chemical Industries
Tuesday, 3rd			**5. [Session] Dispersion and Aggregation**		
2D	10:10	10:40	Nanoparticle Dynamics and Mechanics of DNA Solutions and Blends	*Jacinta Conrad[1]	1.University of Houston
2D	10:40	10:55	Aggregation-state Dynamics Drive Double Cooperativity between Antimicrobial Peptides	*Kaori Sugihara[1]	1.Institute of Industrial Science, The University of Tokyo
2D	10:55	11:10	Colloidal Rod Dynamics under Large Amplitude Oscillatory Extensional Flow	*Simon James Haward[1], Steffen M Recktenwald[4], Vincenzo Calabrese[2], Amy Q Shen[1], Giovanniantonio Natale[3]	1.Okinawa Institute of Science and Technology, 2.POLYMAT, University of the Basque Country, 3.University of Calgary, 4.Saarland University
2D	11:10	11:25	Investigating Janus Particle Dynamics using Microfluidic Devices	*Stephen Chung[1, 2], Geoff R. Willmott[1, 2]	1.The MarDiarmid Institute for Advanced Materials and Nanotechnology, 2.The University of Auckland
2D	11:25	11:40	Optical Trapping and Assembly of Polymer Nanoparticles Using TiO_2 Nanowrinkle Structures	Yuji Sato[1], Kohei Yamaguchi[1], *Tatsuya Shoji[1]	1.Kanagawa University
2D	11:40	11:55	Shear and Microbial Growth as Coupled Design Levers for Stirred Tank Production of Bacterial Cellulose Microparticles	*Art O'Connor[1], Patrick T Spicer[1]	1.UNSW
2D	11:55	12:10	Ultrafine Bubbles by Design: From Verification to Function	*Noura Alzaidan[1], Vincent S. J. Craig[1]	1.Australian National University

2D	14:40	14:55	Selective Aggregation of Fine Minerals for Improved Recovery in Froth Flotation	*George V. Franks[1]	1.University of Melbourne
2D	14:55	15:10	New Generation of Functionalized 3D-Printed Collectors for Greener Mineral Separation	Patrycja S Bednarek[1], Nima Razavi[1], *Przemyslaw B Kowalczuk[1]	1.Norwegian University of Science and Technology
2D	15:10	15:25	Silica Encapsulation and Incorporation of Biobased Phase Change Materials into Acid-Activated Geopolymer for Thermal Energy Storage Application	*Yann Boland[1], Léa Deville[1], Serge Bourbigot[1], Christel Pierlot[1], Gaëlle Fontaine[1]	1.University of Lille / Centrale Lille
2D	15:25	15:40	Incorporation of Biobased Fatty Acid Phase Change Materials (PCM) in Phosphoric Acid Activated Geopolymers	*Christel Pierlot[1], Yann Boland[1], Serge Bourbigot[1], Gaë lle Fontaine[1]	1.University of Lille / Centralelille Institut
2D	15:40	15:55	Effect of PFAS Adsorption on Charging, Aggregation and Toxicity of Nanoplastic Particles in Aqueous Dispersions	*István Szilágyi[1]	1.University of Szeged
2D	15:55	16:10	Beyond Functionalization: Tailoring the Colloidal Stability of Layered Double Hydroxide Nanozymes and Its Impact on Enzyme Activity	*Viktória Varga[1], Anna Mader[1], Attila Vörös[1], István Szil ágyi[1]	1.University of Szeged
2D	16:10	16:25	Polyelectrolyte-Functionalized Cerium Oxide Nanozymes with Improved Colloidal Stability and Peroxidase-Like Activity	*Tamás Péter[1], Dániel Viczián[1], Nizar Bilal Alsharif[2], Viktória Hornok[1], István Szilágyi[1]	1.University of Szeged, 2.Lund University
2D	16:25	16:40	Characterisation of Non-Spherical Particles on Suspension using Depolarised Dynamic Light Scattering	*Gary Bryant[1], Samir El-Demrdash[1], Amani Alzahrani[1], Ali Ahmadi[1], Philipp Reineck[1]	1.Department of Physics, RMIT University
2D	16:40	16:55	Molecular Insights into Chitin Nanocrystal Deacetylation Process	*Hanieh Mianehrow[1], Tony Jin[1], Yu Ogawa[1], Silvia Vignolini[1]	1.Department of Sustainable and Bio-Inspired Materials, Max Planck Institute of Colloids and Interfaces
2D	16:55	17:10	Microscopic Liquid Marbles for Colloidal Probe Microscopy	*Tomas P Corrales[1], Catalina Navarrete Vera[1], Constanza Rodriguez[1], Diego Cortés[3], Michael Kappl[3], Syuji Fujii[2]	1.Universidad Técnica Federico Santa María, 2.Osaka Institute of Technology, 3.Max Planck Institute for Polymer Research
2D	17:10	17:25	Oil Eating Bacteria are More Efficient Lying Down	*Andrew S Utada[1]	1.Univ. of Tsukuba

2D	17:25	17:40	Development of Functional Materials Based on Ionic Interactions for Cosmetic Applications	*Tatsushi Isojima[1], Tomomi Suga[1], Takehiko Kasai[1], Toru Koike[1], Yoshiki Shibuya[1], Kiyoshi Kanie[2], Yuki Takayama[2], Yuichi Ikeda[1]	1.L'Oréal Research & Innovation, Japan, 2.International Center for Synchrotron Radiation Innovation Smart (SRIS), Tohoku University
Tuesday, 3rd			**2. [Session] Molecular Films**		
2E	10:10	10:40	Compression Behavior of Microgels revealed via direct visualization at fluid interfaces	*Daisuke Suzuki[1]	1.Okayama University
2E	10:40	11:10	Polymer–Tether–Mediated Capture: How Soft Colloids Bypass Interfacial Adsorption Barriers	*Marcel Rey[1]	1.University of Münster
2E	11:10	11:25	Real-Time Neutron Scattering Analysis of Air–Water Interfacial Structures in Dairy and Plant-based Milk Foams	*Shuting Xu[1], Yuan Xu[1], Jason Richard Stokes[1], Elliot Paul Gilbert[2]	1.The University of Queensland, 2.Australian Centre for Neutron Scattering
2E	11:25	11:40	Metal–Phenolic Networks for Biointerface Design and Functional Surface Engineering	*Fred Richard Junghans[1], Frank Caruso[2], Donald Wlodkowic[1], Joseph J Richardson[1]	1.RMIT University, 2.University of Melbourne
2E	11:40	11:55	How Do Surfactants Adsorb at Ice Surfaces? Development of a Novel Polarized Infrared External Reflection Accessory.	*Makoto Uyama[1], Hirohmi Watanabe[1], Tetsuya Hama[2]	1.National Institute of Advanced Industrial Science and Technology, 2.Komaba Institute for Science and Department of Basic Science, The University of Tokyo
2E	11:55	12:10	Molecular Adsorption Stability on Graphite Surfaces: Implications for Regular Two-Dimensional Self-Assembly	*Yoshihiro Kikkawa[1], Seiji Tsuzuki[1, 2]	1.National Institute of Advanced Industrial Science and Technology (AIST), 2.The University of Tokyo
Tuesday, 3rd			**1. [Session] Surfactants and Amphiphilic Materials**		
2E	14:40	15:10	Osmolytes regulate the properties of biomolecules and soft matter through changes in the hydration state	*Mafumi Hishida[1]	1.Department of Chemistry, Faculty of Science, Tokyo University of Science
2E	15:10	15:25	Molecular Length and Adsorption of Surfactants at the Air–Water Interface	*Chi Phan[1]	1.Curtin University
2E	15:25	15:40	Influence of Mesophase Architecture in Hydrocarbon Oil-Doped Cubosomes on Membrane Interactions	*Natinael Koyra[1], Jiali Zhai[1], Brendan Dyett[1], Haitao Yu[1], Calum Drummond[1]	1.RMIT University

2E	15:40	15:55	Molecular Design of Nanostructure in Surface-Active Ionic Liquids	Elise Guerinoni[1], Lin Zheng[1], Alexandra Mort[1], Huaqing Xuan[2], Rob Atkin[2], *Gregory Warr[1]	1.The University of Sydney, 2.The University of Western Australia
2E	15:55	16:10	Underwater Lewis Adduct Formation in Polymers to Control Thermoresponsive Behavior	*Akira Takahashi[1], Shio Uebo[1], Hideyuki Otsuka[1]	1.Institute of Science Tokyo
2E	16:10	16:25	Interaction Between Ion Pair Amphiphile Vesicles and Polymers: A Coarse-Grained Molecular Dynamics Simulation Study	*Sin-Yi Lin[1], Chi-cheng Chiu[1]	1.Department of Chemical Engineering, National Cheng Kung University
2E	16:25	16:40	Interactions between Ribonucleic Acids and Ion Pair Amphiphile Bilayers	*Rui Xian Chen[1], Chi Cheng Chiu[1]	1.National Cheng Kung University
2E	16:40	16:55	From Robust Rods to Fragile Cylinders: Headgroup-Controlled Mixed-Micelle Morphology for High-Performance F3 Foams	*Ramya Khandika[1], Vinuthaa Murthy[1], Jitendra Mata[2], Bogdan Dlugogorski[1]	1.Charles Darwin University, 2.Australian Nuclear Science and Technology Organisation
2E	16:55	17:10	Photoresponsiveness of Lyotropic Liquid Crystals containing Arylazopyrazole Derivatives	*Kyosuke ARAKAWA[1], Daiki Nagai[1], Koji Tsuchiya[1], Kenichi Sakai[1], Hideki Sakai[1]	1.Tokyo University of Science
2E	17:10	17:25	“Surfactants without tails” – How Superchaotropic borate clusters behave in non-ionic surfactant solutions	*Max Hohenschutz[1]	1.RWTH Aachen University
2E	17:25	17:40	Structural Interplay in Block Copolymer-Bile Salt Complexes: From Globules to Ribbons	Suelen Gauna Trindade[1, 2], Guanqun Du[1], Luciano Galantini[3], Lennart Piculell[1], Watson Loh[2], *Karin Schillén[1]	1.Division of Physical Chemistry, Department of Chemistry, Lund University, 2.Institute of Chemistry, University of Campinas (UNICAMP), 3.Department of Chemistry, Sapienza University of Rome
Tuesday, 3rd			**6. [Session] Solid Surfaces: Wetting, Adsorption, Catalysis, Adhesion, and Electrochemistry**		
2F	10:10	10:40	Nanomechanics and Friction of Adsorbed Polymer Layers	*juliette cayer-barrioz[1]	1.LTDS CNRS UMR5513 Ecole centrale de Lyon
2F	10:40	10:55	Adsorbed Anionic Surfactant Bilayers for *Amphibious* Boundary Lubrication	*Shinji YAMADA[1], Hikaru Kimura[1], Taichi Habe[1], Aya Toyoda[1], Tadashi Sugahara[2], Atsushi Miyazaki[2], Takaya Sakai[3]	1.R&D – Analytical Science Research, Kao Corporation, 2.R&D – Biological-Material Science Research, Kao Corporation, 3.R&D – Core Technology Research Center, Kao Corporation

2F	10:55	11:10	Lubrication Properties of Hyperbranched Polymers as Lubricant Additive: Effect of Molecular Structure	*Yutaka Takahashi[1], Yuzhong He[2], Yuhan Jiang[2], Masatoshi Tosaka[3], Masashi Mizukami[1], Shigeru Yamago[2], Kazue Kurihara[1]	1.Tohoku University, 2.Kyoto University, 3.University of Fukui
2F	11:10	11:25	Impact of Molecular Chain Orientational Order in the Adsorbed Molecular Layer on Metal–Alkane Interactions	*Kenji Hisada[1], Naoyuki Anjima[1], Kento Futagi[1], Toyoaki Hirata[1]	1.University of Fukui
2F	11:25	11:40	Adsorption and Lubrication Properties on a Silicon Substrate for Water–Soluble Random Copolymers with the Different Molecular Compositions and Randomnesses	*Shun Yamakado[1], Yoshihisa Fujii[1], Naoya Torikai[1]	1.Department of Applied Chemistry, Graduate School of Engineering, Mie University
2F	11:40	11:55	In-lubro Infrared Spectroscopic Analysis of Hydration Dynamics at Polyelectrolyte Film/Water Interfaces under Aqueous Lubrication	*Motohiro Kasuya[1], Kazunori Nishida[1]	1.Komatsu University
2F	11:55	12:10	Two-Mode Kinetic Friction in Friction Dynamics of Human Skin under Sinusoidal Motion	*Hiroyuki Mayama[1], Ruki Narisawa[2], Yoshimune Nonomura[2]	1.Asahikawa Medical University, 2.Yamagata University
2F	14:40	14:55	Carbon Dioxide Adsorption Properties on Gold Nanoparticle- Loaded Zirconia Synthesized by Surface Hydrolysis–Deposition Precipitation Method	*Shin-ichi Naya[1], Ryo Akashi[2], Yoshikazu Hirose[2], Fuminori Tamazaki[2], Miwako Teranishi[1], Hiroaki Tada[3]	1.Environmental Research Laboratory, Kindai University, 2.R & D Unit, Daiichi Kigenso Kagaku Kogyo Co., Ltd., 3.Institutes of Innovation for Future Society, Nagoya University
2F	14:55	15:10	Effect of Zeolite–Hydrophobicity on Water Adsorption Isotherm of Graphene–Wrapped Zeolite	*Ayumi Furuse[1], Kayoko Suzuki[2], Kei Kubo[2], Hayato Otsuka[1], Katsumi Kaneko[2]	1.Faculty of Engineering, Shinshu University, 2.Institute for Aqua Regeneration, Shinshu University
2F	15:10	15:25	Growth of Medium–Range–Ordered Amorphous Ice in Sub–nanometer Carbon Pores Unveiled by Persistent–Homology–Aided X–ray Scattering	*Yasuhiro Sugiyama[1], Taku Iiyama[2], Ryusuke Futamura[2]	1.Institute for Aqua Regeneration, Shinshu University, 2.Faculty of Science, Shinshu University
2F	15:25	15:40	Shaping Breathing Powders: A Freeze–Drying Strategy That Preserves Gate Opening in Flexible MOFs	*Shotaro Hiraide[1, 2], Ryotaro Saitoh[1], Keisuke Nishimoto[1], Yusuke Takeshi[1], Satoshi Watanabe[1]	1.Kyoto University, 2.Shinshu University
2F	15:40	15:55	Lactate Adsorption by Metal–Organic Frameworks: Performance and Mechanisms	*Ning Yao[1], Fumihiko Kitagawa[2], Masayuki Kondo[2], Yoichi Jimbo[2], Tomohito Kameda[1]	1.Tohoku University, 2.Nikkiso CO., LTD.
2F	15:55	16:10	Effect of Solvent on Liquid–Phase Drug Adsorption in Metal–Organic Frameworks: A Combined Experimental and Monte Carlo Simulation Approach	*Shuji Ohsaki[1], Kazuki Ohshima[1], Hideya Nakamura[1], Satoru Watano[1]	1.Osaka Metropolitan University

2F	16:10	16:25	Mesoscale Engineering of Flexible MOFs Enables IR-Triggered Thermosalient Actuation	*Tommaso Gentili[1], Consiglia Tedesco[2], Linda J. W. Shimon[3], Miri Kazes[3], Alessandra Del Giudice[1], Alessandro Latini[1], Iddo Pinkas[3], Luciano Galantini[1], Dan Oron[3], Maria Chiara di Gregorio[1]	1.Sapienza University of Rome, 2.University of Salerno, 3.Weizmann Institute of Science
2F	16:25	16:40	Controlled Grafting of Polyelectrolyte Brushes via ARGET SI-ATRP within AAO Nanochannels for Tunable Interfacial Properties	*Chien-Wei Chu[1], Pei-Xuan Lai[1], Jing-Tong Lin[1], Deng-Hua Lin[1]	1.National Taiwan University of Science and Technology
2F	16:40	16:55	Applications of Sandwich-Type Graphene-Periodic Mesoporous Silica Nanocomposite with Vertical Pore Alignment for Enzyme Stabilization	*Zheng-Ming Wang[1], Haruki Kawakami[2, 1], Keiichiro Koizumi[2, 1], Yuya Sato[1], Noriko Yoshizawa[1], Ikuma Takahashi[2]	1.AIST, 2.CIT
2F	16:55	17:10	A Novel Microreactor with Rectangular Flow Channels Based on Platinum Loaded Carbon Gel Sheets and Its Application to Gas-Liquid-Solid Reactions	Ryuta Inoguchi[2], Shintaroh Nagaishi[1], Yuta Nakasaka[1], *Shin R. Mukai[1]	1.Faculty of Engineering, Hokkaido University, 2.Graduate School of Chemical Sciences and Engineering, Hokkaido University
2F	17:10	17:25	Nanoreactor Engineering for Efficient Use of Encapsulated Catalysts	*Hana Aizawa[1], Tom A. J. Welling[1, 2], Shin Saito[1], Hikaru Namigata[1], Keishi Suga[1], Kanako Watanabe[1], Daisuke Nagao[1]	1.Department of Chemical Engineering, Tohoku University, 2. Frontier Research Institute for Interdisciplinary Sciences (FRIS), Tohoku University
2F	17:25	17:40	Development of a Method for Evaluating Adhesion Strength of Oil Stain Adhering to a Solid Substrate	*Raimu Futagawa[1], Takanori Kotera[1, 2], Yuya Ishizaki[1], Toshio Sakai[1]	1.Shinshu University, 2.Kao Corporation
Tuesday, 3rd			**17. [Symposium] Nanostructures-Based Interfacial Energy and Separation Science**		
2G	10:10	10:40	Water-mediated ion selectivity in 2D MXene channels	*Yury Gogotsi[1], Yuan Zhang[1], Ming Chen[2], Teng Zhang[1], Tetiana Parker[1], Danzhen Zhang[1], Ruocun Wang[1], Hyunho Kim[1], Paweł Piotr Michałowski[3], Alexei Kornyshev[2]	1.Drexel University, 2.Imperial College London, 3.Łukasiewicz Research Network—Institute of Microelectronics and Photonics
2G	10:40	10:55	Confining Ionic liquids and Deep Eutectic Solvents into Mesoporous Carbon for Enhanced Sorption and Catalytic Properties	Lukas Sallfeldner[1], Julian Kober[1], Justyna Florek[1], Patrick Guggenberger[1], *Freddy Kleitz[1]	1.University of Vienna
2G	10:55	11:10	Adsorption Kinetics of O2 and N2 in CMS Evaluated by Volumetric Measurements for Oxygen Enriched TSA Processes	*Yugo Osaka[1], Taiki Sakamoto[1], Takuya Tsujiguchi, Akio Kodama	1.Kanazawa university
2G	11:10	11:25	Temperature-Driven Graphene Valve-aided Storage of High Density Methane in Carbon Pores at Ambient Temperature	Shuwen Wang[1], Ayumi Furuse[1], Hayato Otsuka[1], Koki Urita[2], Hiroo Notohara[2], Isamu Moriguchi[2], Hideki Tanaka[1], Takuya Hayashi[1], *Katsumi Kaneko[1]	1.Shinshu University, 2.Nagasaki University

2G	11:25	11:40	Graphene-Oxide-Derived Carbon Coatings as an Efficient Route to Electrically Conductive Zeolites	*Diego Felipe Hernández-Barreto[1], Hayato Otsuka[2], Yuta Nishina[3], Katsumi Kaneko[1]	1.Institute for Aqua Regeneration, Shinshu University, Nagano, Nagano, 2.Faculty of Engineering, Shinshu University, Nagano, Nagano, 3.Research Institute for Interdisciplinary Science, Okayama University, Kita, Okayama
2G	11:40	11:55	Highly Efficient Porous Adsorbents for Critical Materials Recovery – Design and Potential Application	*Justyna Florek[1], Aaron Brewer[1], Changxia Li[1], Kazuki Nakanishi[2], Kazuyoshi Kanamori[3], Freddy Kleitz[1]	1.Department of Functional Materials and Catalysis, University of Vienna, 2.Institute for integrated Cell-Material Sciences, Kyoto University Institute of Advanced Study, Kyoto University, 3.Department of Chemistry, Graduate School of Science, Kyoto University
2G	11:55	12:10	In-depth Fine Structure of Carbon Micropores with Carbon-specific Positron Annihilation Lifetime Spectroscopy	*Kei Kubo[1], Hayato Otsuka[2], Daisuke Saeki[2], Ayumi Furuse[2], Takuya Hayashi[2], Piotr Kowalczyk[3], Toshio Sakai[2], Kaneko Katsumi[1]	1.Institute for Aqua Regeneration, Shinshu university, 2.Faculty of Engineering, Shinshu university, 3.School of Mathematics, Statistics, Chemistry, and Physics, Murdoch University
2G	14:40	15:10	Nanoporous Heterojunctions for the Photo(electro)catalytic Conversion of H_2O, CO_2 and N-compounds	*Conchi O. ANIA[1]	1.CNRS (CEMHTI)
2G	15:10	15:25	Visualizing Molecular Adsorption and Interaction Force Landscapes at Solid/Liquid Interfaces with Subnanometer-Resolution AFM	*Hitoshi Asakawa[1]	1.Kanazawa University
2G	15:25	15:40	Recent Advances in the Solidification of Water Droplets on Polymer/Carbon Nanostructured Cold Plates	*Artur Piotr Terzyk[1], Emil Korczeniewski[1], Stanisław Koter[1], Joanna Kujawa[1]	1.N.Copernicus University, Dept. Chemistry, Toruń, Poland
2G	15:40	15:55	Architecting Macroporous Materials through Ice-Crystal Interface Engineering for Energy and Separation	*Hirotomo Nishihara[1]	1.Tohoku University
2G	15:55	16:10	Controlling Intercalation, Exfoliation, and Assembly of 2D Materials for Electrochemical Energy Storage	*Michael A. Pope[1]	1.University of Waterloo
2G	16:10	16:40	2D Nanocarbons in Action: Chemistry-Driven Production, Functionalization, and Applications	*Yuta Nishina[1]	1.Okayama University
2G	16:40	16:55	Carbon Surface Features and the Formation and Stability of γ-Sulfur within its Pore Structure	*Teresa J Bandosz[1, 2], Paola Pauletto[1], Marc Florent[1]	1.The City College of New York, 2.Maria Curie Sklodowska Unviversity
2G	16:55	17:10	Nanoconfined Chemical Reactions Driven by Mechanical Twisting of SWCNT Ropes	*Shigenori Utsumi[1], Hiroto Kasahara[2], Yuki Maru[2], Hayato Otsuka[3], Kei Kubo[3], Ayumi Furuse[3], Katsumi Kaneko[3]	1.Faculty of Engineering, Suwa University of Science, 2.Graduate School of Engineering and Management, Suwa University of Science, 3.Institute for Aqua Regeneration, Shinshu University

2G	17:10	17:25	Interfacial Engineering of $FAPbI_3$ Perovskite Solar Cells via Tetramethylammonium Iodide (TMAI) Surface Passivation for Enhanced Phase Stability and Efficiency	*Chih-Han Yang[1], Jung-Chang Wu[1], Shanmuganathan Venkatesan[1], Yuh-Lang Lee[1]	1.National Cheng Kung University
2G	17:25	17:40	Synthesis and Self-Assembly of Organic-Inorganic Hybrid Metal Hydroxide Salt Nanomaterials for Efficient Electrocatalysts	*Naoki Tarutani[1], Keiichiro Tsujimoto[1], Miki Asanome[1], Hiroki Yamada[2], Kiyofumi Katagiri[1], Kei Inumaru[1]	1.Hiroshima University, 2.Tohoku University
Wednesday, 4th			**Plenary Lecture**		
3S	09:00	09:50	From Molecular Design to Colloidal Architecture in Semiconducting Polymers	*Christine Luscombe[1]	1.Okinawa Institute of Science and Technology
Thursday, 5th			**Plenary Lecture**		
4S	09:00	09:50	(To be announced soon)	*Dganit Danino	1.Technion
Thursday, 5th			**11. [Symposium] Langmuir Symposium**		
4A	10:10	10:40	Engineering Therapeutics for Endothelial/Epithelial Cell Interfaces	Nashmia Zia[1], *Gilbert C. Walker[1]	1.University of Toronto
4A	10:40	11:10	How localized rearrangements drive global failure in capillary suspensions	Jens Allard[1], Lingyue Liu[1], Minne P. Lettinga[1, 2], *Erin Koos[1]	1.KU Leuven, 2.Forschungszentrum Jülich
4A	11:10	11:40	Gas Enrichment at Liquid-Liquid Interfaces	Reza Azadi[1], Alberto Giacomello[2], *Chiara Neto[1]	1.The University of Sydney, 2.Sapienza Università di Roma
4A	11:40	11:55	Interfacial Engineering of Hybrid Nanocolloids for Magneto-Photothermal Biomedical Applications	*Miryana HEMADI[1]	1.Université Paris Cité
4A	13:30	14:00	Understanding Cellular Functions through Interfacial Dynamics	*Motomu Tanaka[1]	1.Heidelberg University

4A	14:00	14:15	Capillary Adhesion of Particles on Thin Liquid Layer	*Sanghyuk Wooh[1]	1.Chung-ang University
4A	14:15	14:45	From Thin Film Mechanics to Strain Engineering in 2D Materials and Templating Metamaterials with Giant Circular Dichroism	*Andreas Fery[1, 2], Tobias Anton Friedrich König[1, 2], Christian Rossner[1, 2], Ningwei Sun[1], Ziwei Zhou[1]	1.Leibniz-Institut für Polymerforschung Dresden e.V., 2.Technical University Dresden, Faculty of Chemistry and Food Chemistry
Thursday, 5th			**4. [Session] Fine Particles, Nanoparticles and Nanomaterials**		
4B	10:10	10:40	Quantum Lepidoptery and Quantum Batteries	Jack Muir[2, 1], Jianfei Yu[1], Laura Ospina Rozo[1], Kieran Hymas[2], Daniel Tibben[3], Joel van Embden[3], Tadahiko Hirai[2], Christopher Dunn[2], Daniel Gomez[3], Trevor Smith[1], Ann Roberts[1], James Quach[2], Devi Stuart-Fox[1], *James Andell Hutchison[1]	1.The University of Melbourne, 2.CSIRO Clayton, 3.RMIT
4B	10:40	10:55	Size-Matched Adsorption of Chiral Ir(III) Complexes on Clay Nanosheets for Amplifying Circularly Polarized Luminescence	*Jun Yoshida[1], Risa Ito[1], Nobuyuki Hara[1]	1.Nihon University
4B	10:55	11:10	Colloidal Synthesis of Cu-Ag-Ge-S Quantum Dots with Tunable Bandgaps for Photovoltaic Applications	*Yuning Mu[1], Kazutaka Akiyoshi[1], Tatsuya Kameyama[1], Norikazu Fujihira[2], Tsukasa Torimoto[1]	1.Graduate School of Engineering, Nagoya University, 2.Murata Manufacturing Co., Ltd.
4B	11:10	11:25	Shift in Design Focus: Upgrading g-C_3N_4 from a Photocatalyst to a Next-Generation Cosmetic Pigment	*Masanori Sakamoto[1]	1.Niihama KOSEN
4B	11:25	11:40	Development of a Portable Sensor Platform for Detection of Bacterial Pathogens	*Serena Ch'ng[1], Aaron Elbourne[1], Paul Ramsland[1], Sumeet Walia[1]	1.RMIT University
4B	11:40	11:55	Metal-Organic Frameworks for Highly Nonlinear Photonics	*Maria Chiara di Gregorio[1], Hadar Nasi[2], Miri Kazes[2], Tommaso Gentili[1], Michal Leskes[2], Hagai Cohen[2], Ayelet Vilan[2], Linda J. W. Shimon[2], Ifat Kaplan-Ashiri[2], Michal Lahav[2], Dan Oron[2]	1.Department of Chemistry, Sapienza University of Rome, 2.Weizmann Institute of Science
4B	11:55	12:10	One-Pot Nanoparticle Synthesis of Chromium MOFs from Waste PET via Simultaneous Depolymerization and Framework Formation	Kayee Chan[1, 2], Frantisek Miksik[3], Hao Wang[1], Guanglong Huang[1], Yoshiaki Kawajiri[3, 4], *Anatoly Zinchenko[1]	1.Nagoya University, Graduate School of Environmental Studies, 2.School of Fashion and Textiles, The Hong Kong Polytechnic University, 3.Institute of Innovation for Future Society, Nagoya University, 4.Department of Materials Process Engineering, Nagoya University
4B	13:30	13:45	Ultrasmall Ligand-Protected Ag7 Nanoclusters Enable Dual-Mode ROS Generation for Cancer Nanotherapy	*Hideya Kawasaki[1], Divinah Manoharan[2], Kana Yamamoto[1], Li-Chan Chang[2], Chouma Kurihashi[3], Issey Osaka[3], Yin-Fen Liu[2], Siou-Wei Liang[2], Wen-Pin Su[4], Chen-Sheng Yeh[2]	1.Kansai University, 2.National Cheng Kung University, 3.Toyama Prefectural University, 4.National Cheng Kung University Hospital

4B	13:45	14:00	Rice-Derived γ-Oryzanol-KC2 Lipid Nanoparticles for Safe and Efficient In Vivo mRNA Delivery	*Pengkai Shi[1, 2], Haikun Liu[1, 2], Ahmed Refaat[1, 2], Hung Nguyen[1, 2], Anne Nguyen[2], Kaiting Miao[2, 3], Yuyang Song[1, 2], Sylvain Trépout[3], Rico F. Tabor[3], Liliana de Campo[4], Karlheinz Peter[1, 5, 2, 3], Mark Louis P. Vidallon[1, 2, 3, 5], Xiaowei Wang[1, 2, 3, 5]	1.The University of Melbourne, 2.Baker Heart and Diabetes Institute, 3.Monash University, 4.Australian Nuclear Science and Technology Organisation (ANSTO), 5.La Trobe University
4B	14:00	14:15	A Nature-Inspired Antimicrobial Polymeric Colloidal System Based on (+)-Usnic Acid and Poly(vinylbenzyl chloride)	*R. Bengü Karabacak[1], Turgay Tay[1], Merih Kivanc[1]	1.Eskişehir Technical University
4B	14:15	14:30	Chitosan-Based TiO_2 Spheres for Photocatalytic Fluidized Bed Applications	Ming-Wei Chen[1], Wei-Lun Huang[1], Yu-Ting Huang[1], *Chao-Wei Huang[1]	1.National Cheng Kung University
4B	14:30	14:45	Mechano-Virucidal Nanostructured Surfaces: From Piercing to Blunt-Force Viral Rupture	*Samson WL Mah[1, 2], Denver P. Linklater[1, 3], Vassil Tsanov[4], Chaitali Dekiwadia[1], Sergey Rubanov[3], Phuc H Le[1], Laleh Tafakori[1], Ranya Simons[2], Graeme Moad[2], Soichiro Saita[5], Takashi Yanagishita[6], Hideki Masuda[6], Vladimir Baulin[4], Natalie A Borg[1], Elena P. Ivanova[1]	1.RMIT University, 2.CSIRO Manufacturing, 3.University of Melbourne, 4.Universitat Rovira i Virgili, 5.Mitsubishi Chemical Co., 6.Tokyo Metropolitan University
4B	14:45	15:00	Non-Cytotoxic Binary Mixtures of Cationic Nanoparticles and Polymer Chains Kill Polymicrobial Communities	*Hubert Buksa[1], Mawgan Trebell[1], Ryo Suzuki[2], Natasha Holt[3], Motomu Tanaka[2, 4], William M. Durham[1], Rebecca M. Corrigan[5], Steven Peter Armes[1]	1.School of Mathematical and Physical Sciences, University of Sheffield. 2.Center for Integrative Medicine and Physics, Kyoto University. 3.GEO Specialty Chemicals. 4.Institute of Physical Chemistry, Heidelberg University. 5.School of Medicine, University College Dublin.
4B	15:00	15:15	Characterization of Antioxidant Prussian Blue Nanozymes for Therapeutic Applications in Inflammatory Bowel Disease	*Ami Saito[1], István Szilágyi[2], Kaori Sugihara[1]	1.Institute of Industrial Science, The University of Tokyo, 2.University of Szeged
4B	15:15	15:30	Surfactant Distribution and Redistribution in Pharmaceutical Injectable Nanosuspensions Influences Stability, Polymorphic Form and Redispersibility	*Ben Boyd[1], Yuen-Yi Lam[1]	1.Monash University
Thursday, 5th			**12. [Symposium] New Trends in Innovative Cross-Disciplinary Research Created by Interfacial Structure Analysis**		
4C	10:10	10:40	Unravelling the Mechanisms behind the Stabilization of Oil Foams	*Anne-laure Fameau[1], Smaragda-Maria Argyri[1], Arnaud Saint-jalmes[2], Emanuel Schneck[3]	1.INRAE, 2.Université de Rennes, 3.TU Darmstadt
4C	10:40	10:55	Hierarchical Colloidal Gel Networks Formed by Aluminum Salts and Their Formation Mechanism	*Sachiko Masaoka[1, 2], Atsunori Morigaki[1], Yasushi Kakizawa[1], Yuichi Fujiwara[1], Takaaki Sato[2]	1.LION Corporation, 2.Shinshu University
4C	10:55	11:10	Probing Gelation, Structure, and Fluid Interactions in Twin-Chain Gels by Small-Angle Scattering	*Rosangela Mastrangelo[1], Teresa Guaragnone[1], Emiliano Fratini[1, 2], Piero Baglioni[1, 2]	1.Center for Colloid and Surface Science, Florence, Italy, 2.Department of Chemistry, University of Florence

4C	11:10	11:25	Cold-Crystallization Behavior of Condensed Deep-Sea Water Enables Non-Occlusive Skin Hydration	*Mohammad ALAM[1], Hirata Naoyuki[2], Toshifumi Shiroya[3], Yukiko Tanaka[4], Masaru Tanaka[5]	1.Manager in Wamiles Cosmetics R&D, 2.Manager in Wamiles cosmetics R & D, 3.Director in Wamiles Cosmetics R & D, 4.Research Assistant in Kyushu University, 5.Professior in Kyushu University
4C	11:25	11:55	Hierarchical cleansing jelly emulsions: modulating interfacial bending rigidity for self-supporting network architectures in a bicontinuous microemulsion matrix	*Yuko Shimma[1], Takaaki Sato[2], Toshihiko Ogura[3], Piero Baglioni[4], Taku Ogura[5]	1.ALBION Co., LTD., 2.Shinshu University, 3.AIST, 4.University of Florence, 5.Tokyo University of Science
4C	13:30	14:00	Nanostructured Twin Hydrogels for Applications in Art Conservation and Bacterial Inactivation	*Piero Baglioni[1]	1.CSGI, University of Florence
4C	14:00	14:15	Low-dielectric Anomaly of Water in Phospholipid Aqueous Dispersions: Structural Depolarization versus Long-range Hydration	Koji Takahashi[1], Richard Buchner[2], *Takaaki Sato[1]	1.Department of Chemistry and Materials, Faculty of Textile Science and Technology, Shinshu University, 2.Institut für Physikalische und Theoretische Chemie, Universität Regensburg, D-93040 Regensburg
4C	14:15	14:30	Machine Learning-Assisted Detection and Concentration Regression of Microplastics Using Flow Profile Analysis in a Paper-Based Microfluidic Chip	*Junseung Bae[1], Daesik Son[1], Chanwoo Park[1], Soo Chung[1]	1.Seoul National University
4C	14:30	14:45	Direct observation of living mammalian cells in aqueous condition by scanning electron assisted dielectric microscopy	*Toshihiko Ogura[1], Tomoko Okada[1]	1.National Institute of Advanced Industrial Science and Technology (AIST)
4C	14:45	15:15	Rheo-Impedance Spectroscopy for Soft Materials and Slurry Analysis	*Isao Shitanda[1], Yoshifumi Yamagata[2], Keisuke Miyamoto[2], Taku Ogura[1], Hikari Watanabe[1], Masayuki Itagaki[1]	1.Tokyo University of Science, 2. Anton Paar Japan K. K.
Thursday, 5th			**5. [Session] Dispersion and Aggregation**		
4D	10:10	10:40	Structure-Function Relationships of Ligands for Dispersion Stability	*Yohei Okada[1]	1.Tokyo University of Agriculture and Technology
4D	10:40	10:55	A New Method for Estimating the Hamaker Constants of Liquids and Polymers Based on Their Hansen Solubility Parameters	*Hiroyuki Ohshima[1], Shin-ichi Takeda[2]	1.Tokyo University of Science, 2.Takeda Colloid Techno-Consulting
4D	10:55	11:10	Toward Thermodynamic Interpretation of Alkylphosphonate-capped TiO_2 Nanoparticle Dispersion: An Experimental Approach	*Shohei Yamashita[1], Yohei Okada[1]	1.Tokyo University of Agriculture and Technology

4D	11:10	11:25	Low-field (LF) NMR Solvent Relaxation as a convenient tool to determine the Hansen Solubility Parameters (HSP) of powders and the factors affecting such values	*David Fairhurst[1], Ravi Sharma[2]	1.Colloid Consultants Ltd., 2.Mageleka Inc.
4D	11:25	11:40	Time-domain Nuclear Magnetic Resonance (TD-NMR) Analysis of Solvent Dynamics in Highly-Concentrated, Monodispersed Nanofluids of Organically Modified Nanoparticles	*Takaaki Tomai[1], Yuko Arai[1], Yuki Ishikawa[1], Chika Takai-Yamashita[2], Junko Ikeda[3]	1.Tohoku University, 2.Nagoya Institute of Technology, 3.Mageleka Japan Co., Ltd.
4D	11:40	11:55	Hollow Silica Nanoparticles: Probing Inner and Outer Surface Affinity by a Time-domain Nuclear Magnetic Resonance (TD-NMR)	*Chika Takai-Yamashita[1, 2], Junko Ikeda[3, 2]	1.Nagoya Institute of Technology, 2.Tohoku University, 3.Mageleka Japan Co,. Ltd.
4D	11:55	12:10	Quantitative Dispersion-state Analysis of One-Pot Synthesized Sub-10-nm $BaTiO_3$ Nanoparticles for Optical Applications	*KIYOSHI KANIE[1], Yukika Yamada[1], Masaki Matsubara[1], Masahiro Ohnuma[2], Masafumi Hidaka[1], Junko Ikeda[1, 3], Megumi Suyama[1], Shin-ichi Takeda[4]	1.Tohoku University, 2.Hokkaido University, 3.Mageleka Japan Co., LTD, 4.Takeda Colloid Techno-Consulting Co., LTD
4D	13:30	13:45	Experimental Investigations of Underscreening in Concentrated Electrolytes	*Vincent Stuart James CRAIG[1], Yurika Nakayama[1], Iqra Maryam[1], Erica J Wanless[2], Grant Webber[2], Alister Page[2]	1.Australian National University, 2.The University of Newcastle
4D	13:45	14:00	The Origins of Anomalous Underscreening in Concentrated Electrolytes	Sophie Baker[1], Lachlann Howard[1], Grant Webber[1], Erica Wanless[1], Vince Craig[2], *Alister Page[1]	1.University of Newcastle, 2.Australian National University
4D	14:00	14:15	Investigating the Temperature Response of Multimodal Underscreening in Concentrated Electrolytes	*Sophie Baker[1], Erica J. Wanless[1], Grant B. Webber[2], Vincent S. J. Craig[3], Alister J. Page[1]	1.Discipline of Chemistry, University of Newcastle , 2.Discipline of Chemical Engineering, University of Newcastle , 3.Department of Materials Physics, Research School of Physics, Australian National University, Canberra
4D	14:15	14:30	Interfacial Forces Across Aqueous Electrolytes: Unexpectedly Weak And Strong Screening	*Regine von Klitzing[1], Thomas Tilger[1], Esther Ohnesorge[1], Michalis Tsintsaris[1], Hayden Robertson[1]	1.TU Darmstadt
4D	14:30	14:45	Underscreening Between Macroscopic Surfaces Studied by Atomic Force Microscopy	*Naoyuki Ishida[1], Ryoto Ohtsubo[1], Miharu Takahashi[1], Kanato Nakasuji[1]	1.Doshisha University
4D	14:45	15:00	Direct Measurements of Interaction Forces in Concentrated Electrolytes	*Yurika Nakayama[1], Erica Wanless[2], William Ducker[3], Vincent S. J. Craig[1]	1.Australian National University, 2.University of Newcastle, 3.Virginia Tech
4D	15:00	15:15	Direct Force Measurements with Sub-Micrometer Particles	*Georg Papastavrou[1], Andreas Mark[1], Sebastian Sittl[1], Andreas Karg[1], Agnes Specht[1], Mohan Das[2], Nicolas Helfricht[1], Georges Petekidis[2]	1.University of Bayreuth, 2.IESL-FORTH

4D	15:15	15:30	Hypersaline Electrolyte Effects on Silica Nanoparticle Aggregation	*Geran S. Dunlop[1], Mikayla Nisbet-Gore[1], Elliot P. Gilbert[2], Anna Sokolova[2], Liliana de Campo[2], Andrew R. J. Nelson[2], Stuart W. Prescott[3], Vincent S. J. Craig[4], Alister J. Page[1], Grant B. Webber[1], Erica J. Wanless[1]	1.University of Newcastle, 2.Australian Nuclear Science and Technology Organisation, 3.University of New South Wales, 4.Australian National University
Thursday, 5th			**3. [Session] Soft Matter and Biosystems**		
4E	10:10	10:25	Biomembrane-Hybrid Nanoparticles with Programmable Biointerfaces for Drug Delivery and Cellular Modulation	*Yoshihiro Sasaki[1], Yusuke Tani[1], Mika Suzuki[1], Ryosuke Mizuta[1]	1.Kyoto University
4E	10:25	10:40	DNA-Protein Nanogels: Preparation, Functionalization and Transfection	*Sergii Rudiuk[1]	1.Ecole Normale Supérieure
4E	10:40	10:55	Polymer-Bridged Mesoporous Nanoparticle Networks for Regenerative Tissue Sealants	*Seulgi Kim[1], Raehyun Jung[2], Woo Jin Gil[3], Gi-Ra Yi[4], Chul-Su Yang[3], Su-Mi Hur[2], Jin Woong Kim[1]	1.Sungkyunkwan University, 2.Daegu Gyeongbuk Institute of Science and Technology (DGIST), 3.Hanyang University, 4.Pohang University of Science and Technology (POSTECH)
4E	10:55	11:10	Mapping Native Meat Structures Using Light Sheet Fluorescence Microscopy to Design Alternative Protein Matrices	*Maryam Hosseini[1], Sandra Fok[2], Nathaniel Corrigan[3], Patrick Spicer[1]	1.School of Chemical Engineering, UNSW Sydney. 2.Katharina Gaus Light Microscopy Facility, Mark Wainwright Analytical Centre, UNSW Sydney. 3.Centre for Advanced Manufacturing Technology (CfAMT), School of Engineering, Design and Built Environment, Western Sydney University.
4E	11:10	11:25	Multifunctional Silk Protein-based Nanomedicine: Recent Results in Systemic and Localized Drug Delivery	*ANH T.N. DAO[1]	1.Nagasaki University
4E	11:25	11:40	Chemical Compounds that Modulate Membrane Phase Separation for Biomedical Applications	*Toshiyuki Murai[1], Kazuma Yasuhara[2]	1.The University of Osaka, 2.Nara Institute of Science and Technology
4E	11:40	11:55	Exploring The Interface of Emulsions With Gastrointestinal Fluids – Biomolecular Corona Formation And Biofunctional Consequences During Gastrointestinal Digestion	*Anastasiia Artuyants[1], Malinda Salim[1], Livia Salvati Manni[1], Anna Pham[1], Ben J. Boyd[1]	1.Monash University
4E	11:55	12:10	Direct QCM-D/AFM Analysis of Antimicrobial Agent-Bacteria Interactions Reveals Surfactant-LPS Binding and Enhanced Accumulation	*Ippei Furikado[1], Yoshiko Miyahara[2], Takehisa Yano[2], Shigeto Inoue[1]	1.Analytical Scienece Laboratory, Kao corporation, 2.Safety Science Research, Kao Corporation
4E	13:30	13:45	Engineering Paper Biomedical Diagnostics: A Colloidal and Interfacial Perspective	*Gil Garnier[1], Anuragmani Tripathi[1], Rishabh More[1], Simon Corrie[1], Gil Garnier Garnier[1]	1.Monash University

4E	13:45	14:00	From Adhesion to Release: Mechanistic Insights Into Nanoparticle–Membrane Interactions	*Ioana Ilie[1], Massimiliano Paesani[1], Indigo Bekaert[1], Maarten Stork[1], Joost Reek[1]	1.University of Amsterdam
4E	14:00	14:15	CO_2–Responsive Supramolecular Drug–Carrier Systems: Toward Safer and More Effective Cancer Therapies	*Chih-Chia Cheng[1]	1.National Taiwan University of Science and Technology
4E	14:15	14:30	Lonic Liquid–Based Nano Carrier for Needle–Free Transdermal mRNA Vaccine	*Masahiro Goto[1], Tomohiro Higashi[1]	1.Kyushu University
4E	14:30	14:45	Influence of Internal Nanostructure on Cellular Uptake of Lipid Nanoparticles	*Nhiem Tran[1]	1.RMIT University
4E	14:45	15:00	Hybrid Exosome Platform for Targeted Skin Layer Delivery and Improved Anti-Aging Efficacy	*JiHoon Ha[1], Sung Eun Kim[1], Jin Youn Kim[1], Jin Mo Kim[1]	1.Kolmar Korea
4E	15:00	15:15	Self-Assembled Polysaccharide Nanogels as Colloidal Vaccine Carriers for Spatiotemporally Controlled Immune Activation	*Yuki Yazawa[1], Ryosuke Mizuta[1], Naomi Matsuura[2], Yoshiro Tahara[3], Kazunari Akiyoshi[4], Yoshihiro Sasaki[1]	1.Graduate School of Engineering, Kyoto University, 2.Faculty of Applied Science and Engineering, University of Toronto, 3.Graduate School of Science and Engineering, Doshisha University, 4.Institute for Integrated Cell-Material Science (WPI-iCeMS), Kyoto University
4E	15:15	15:30	Toward predictable mRNA–lipid nanoparticle drug delivery: lessons from human blood kinetics of mRNA vaccines	*Yi (David) Ju[1, 2]	1.Olivia Newton-John Cancer Research Institute, 2.School of Cancer Medicine, La Trobe University
Thursday, 5th			**1. [Session] Surfactants and Amphiphilic Materials**		
4F	10:10	10:40	Tuning Luminescence of Fluorescent Small Molecules via Controlled Assembly	*Jing Liu[1]	1.Shaanxi Normal University
4F	10:40	10:55	Predicting the Size of Surfactant Micelles Incorporating Hydrophobic Additives – Quantitative Model vs Experimental Data	*Joyce Lemmer[1], Karen Edler[2], Jyoti Gupta[3], Nicholas Brownbill[3], Gokhan Topcu[3], Adam Squires[1]	1.University of Bath, 2.Lund University, 3.Unilever
4F	10:55	11:10	Concentrated Rhamnolipid Solutions: Chemodiversity Drives Structure, Flow Behavior, and Functionality	*Gerardino D'Errico[1, 2]	1.University of Naples Federico II, 2.CSGI

4F	11:10	11:25	Electron Density Determination and Phase Retrieval in Bicontinuous Cubic Phases of Lyotropic Liquid Crystals	*Toshihiko Oka[1]	1.Shizuoka University
4F	11:25	11:40	Effects of Protonation on the Properties of Low Molecular Weight Hydrogels Formed by Amidoamine Oxide Surfactants	*Rie Kakehashi[1], Naoji Tokai[1], Makoto Nakagawa[1], Kazuma Yasuhara[2], Moe Araida[3], Yoshifumi Yamagata[3]	1.Osaka Research Institute of Industrial Science and Technology, 2. Nara Institute of Science and Technology, 3.Anton Paar Japan K. K.
4F	11:40	11:55	Structure-Property Relationships in Amphiphilic Molecular Design for Tailor-Made Hydrogels	*Peer Nölte[1], Johannes Brendel[1], Sebastian Städter[1]	1.University of Bayreuth
4F	11:55	12:10	Surface Structure of Liquid Crystalline Soft Matter Revealed by Neutron Reflectometry	*Fumiya Nemoto[1]	1.National Defense Academy of Japan
4F	13:30	13:45	Universal Double Emulsions Made Simple	*Jonathan Martín-González[1], Nicolas Vogel[1]	1.Friedrich-Alexander University of Erlangen-Nuremberg
4F	13:45	14:00	Hydrophobically Modified Hyaluronic Acid as an Amphiphilic Emulsifier for Improved Skin Hydration	*jongryeol Yang[1], Yunhoe Heo[2], In Ki Hong[2], JIn Woong Kim[1]	1.Sungkyunkwan university, 2.Kolmar Korea
4F	14:00	14:15	Influence of Plant Protein Type on the Formation and Physicochemical Stability of MCT and Algal Oil-in-Water Emulsions: Soy, Pea, and Mung Bean Proteins	*Thitaya Hoonwatthanakoon[1], Thongkorn Ploypetchara[2], Jansuda Kumpa[2]	1.Khon Kaen University, 2.Thailand Institute of Scientific and Technological Research (TISTR)
4F	14:15	14:30	Temperature-Dependent Interfacial Hydration and Structural Evolution of Microalgal Oil-in-Water Microemulsions	*Ting-Chen Lee[1], Chien-Hsiang Chang[1]	1.Department of Chemical Engineering, National Cheng Kung University, Tainan, Taiwan
4F	14:30	14:45	Light-Controlled Janus-to-Dumbbell Transitions in Complex Emulsions via Surfactant Photoisomerization and Self-Assembly	*Che-Jen Lin[1]	1.National Tsing Hua University
4F	14:45	15:00	A Highly Anisotropic and Hydrolytically Degradable Pickering Emulsifier for Oil-in-Water Emulsions	*Joshua Tyler[1], Matthew Farmer[1], Oleksander Mykhaylyk[1], Maria Orchard[2], Osama Musa[2], Steven Armes	1.University of Sheffield, 2.Ashland Specialty Ingredients
4F	15:00	15:15	Pickering Emulsions Stabilized by Biochar for Sustainable Mineral Recovery	*Ellen Moon[1, 2], Sirjana Adhikari[1, 2], Yuri Leandro Rodrigues Lopes Fernandes[1, 2], Negin Amini[1, 2], Erica Wanless[2, 3]	1.Deakin University, 2.ARC Centre of Excellence for Enabling Eco-efficient Beneficiation of Minerals, 3.University of Newcastle

4F	15:15	15:30	Influence of crystal morphology on Pickering Emulsions stabilized by flavonoid crystals	*Basile GALL[1], Nicolas Huang[1], Bertrand Fournier[1]	1. Institut Galien Paris Saclay
Thursday, 5th			**18. [Symposium] Novel Theories and Measurements on Nanoconfined Molecules and Ions**		
4G	10:10	10:40	Effect of Confinement on the Adsorption, Phase and Wetting Behaviour of Fluids: Recent Progress in the Pore Network and Surface Characterization of Nanoporous Materials	*Matthias Thommes[1]	1.Friedrich-Alexander-University Erlangen-Nürnberg
4G	10:40	10:55	Compartmentalization of Adsorbate in Pore Networks and Structure Characterization of Metal-Organic Frameworks	*Alexander V. Neimark[1], Nicholas Corrente[1], Andrew Xie[1], Evan Shley[1]	1.Rutgers University
4G	10:55	11:10	Reactive (N, V, T, Constant-Voltage) Molecular Simulations of Nanoporous Carbon-Based Electrocatalyst For H2 Production	*Roland J.M. Pellenq[1]	1.CNRS and the Université of Montpellier
4G	11:10	11:25	Nanoconfinement as a Route to Link Ionic Liquid Structure, Dynamics and Reactivity	*Maxwell David Coney[1], Nicolas de Souza[2], Stuart Prescott[1], Jason Harper[1]	1.University of New South Wales, 2.ANSTO
4G	11:25	11:40	Hydrogelation and Mesoporous Graphene Formation via Crosslinking between Graphene Oxide and Ionic Liquids	*Ryusuke Futamura[1], Akira Sakima[1], Mami Wada[1], Kaito Watabe[1], Taku Iiyama[1]	1.Shinshu University
4G	11:40	11:55	Vapochromic Visualization of Vapor Adsorption in NanoporesUsing π-Conjugated Ionic Liquids as Optical Probes	*Ayaka Kira[1], Kento Nakamura[1], Taku Iiyama[1], Ryusuke Futamura[1]	1.University of shinshu
4G	11:55	12:10	Rheology of Graphenic Materials in Water – Ionic Liquid Mixtures	*Krisztina Laszlo[1], Benjámin Gyarmati[1], Anna Bulátkó[1], Olga Krafcsik[2, 3], Zsolt Fogarassy[3], Bence Mihalovics[1], Dániel Olasz[3]	1.Department of Physical Chemistry and Materials Science, Budapest University of Technology and Economics, 2.Department of Atomic Physics, Institute of Physics, Budapest University of Technology and Economics, 3.Institute of Technical Physics and Materials Science, HUN-REN Centre for Energy Research
4G	13:30	14:00	Modelling and Characterisation of Micro-Mesoporous Carbons	Anderson Arboleda[1], Fernando Vallejos-Burgos[2], N. Marks[3], Katsumi Kaneko[4], *Carla de Tomas[1]	1.King's College London, 2.Morgan Advanced Materials, 3.Curtin University, 4.Shinshu University
4G	14:00	14:15	Understanding the Capacitance of Nanoporous Carbons using NMR Spectroscopy	*Alexander Forse[1]	1.University of Cambridge

4G	14:15	14:30	*Operando* Soft X-ray Spectroscopy of Solid-Liquid Interfaces and Bulk Liquids	*Masanari Nagasaka[1, 2]	1.Institute for Molecular Science, 2.SOKENDAI
4G	14:30	14:45	Bilayer Ionic Liquids Structures in Graphene Oxide Nanochannels for Selective CO_2 Permeation	*Mami Wada[1], Taku Iiyama[2], Ryusuke Futamura[2]	1.Graduate School of Medicine, Science and Technology, Shinshu University, 2. Faculty of Science, Department of Chemistry, Shinshu University
4G	14:45	15:00	Impact of Mesoporous Silica on Local, Global, and Cooperative Molecular Mobility of Overloaded Pharmaceutical Glasses	*Kohsaku Kawakami[1, 2], Xue Han[1, 2], Francisca Larasati[1, 2]	1.National Institute for Materials Science, 2.University of Tsukuba
4G	15:00	15:15	Functions of Confined Liquids Revealed by Surface Forces Measurement	*Kazue Kurihara[1], Yutaka Takahashi[1], Masashi Mizukami[1]	1.NICHe, Tohoku University
Thursday, 5th			**Plenary Lecture**		
4S	15:50	16:40	Charge Separation by Sliding Drops	*Hans-Juergen Butt[1]	1.Max Planck Institute for Polymer Research
Friday, 6th			**Plenary Lecture**		
5S	09:00	09:50	Liquid Marbles: Opening New Frontiers in Materials Chemistry	*Syuji Fujii[1, 2, 3]	1.Faculty of Engineering, Osaka Institute of Technology, 2.Nanomaterials Microdevices Research Center, Osaka Institute of Technology, 3.Chulalongkorn University
Friday, 6th			**3. [Session] Soft Matter and Biosystems**		
5A	10:10	10:25	Solubilisation of Active Agents in Water-Soluble Interpolyelectrolyte Complexes (IPECs)	*Michael Gradzielski[1], Olga Gradzielski Kuzminskaya[1], Max Gradzielski Darge[1], Anton Gradzielski Michel-Busch[1], Sylvain Gradzielski Prevost[2]	1.Technische Universität Berlin, 2.Institut Laue-Langevin
5A	10:25	10:40	Weak and Nonspecific Interactions Control the On / Off Manner of Folding, Organization of Globule and Transcriptional Activity of Giant ds DNA Chain	*Tatsuo Akitaya[1, 2]	1.Asahikawa Medical University, 2.Doshisha University
5A	10:40	10:55	Analysis of Interactions between Benzalkonium Chloride and Feline Calicivirus under Alkaline Conditions	*Tsubasa Yabuchi[1], Ryutaro Jo[1], Taichi Habe[1], Shun Sasaoka[1], Masashi Oguri[1]	1.Kao Corporation

5A	10:55	11:10	Multi-Virus Detection by Graphene FET Sensor Modified with Various Antibodies	*Kazuhiko Matsumoto[1], Kaori Yamamoto[1], Mamiko Yano[1], Eriko Ohnishi[1], Ayano Fukumura[1], Shota Ushiba[2], Shinsuke Tani[2], Masahiko Kimura[2]	1.The University of Osaka, 2.Murata Manufacturing Co., Ltd
5A	11:10	11:25	Soft-Interface Design of Zwitterion-Containing Random Copolymers for Enzyme Thermal Stabilization via Bayesian Optimization	*Shunya Sudo[1], Tsukuru Masuda[1], Satoshi Yamashita[2], Madoka Takai[1]	1.The University of Tokyo, 2.Gel Coat Biomaterials, Inc
5A	11:25	11:40	Using Capillary Assembly to Deposit Cells: From Biohybrid Microswimmers to Designing Microbial Communities	*Isabelle Feller[1], Jakob Paulsen[1], Cameron Boggon[2], Yiyao Hu[1], Jeremy Wong[1], Eleonora Secchi[1], Robert Style[1], Lucio Isa[1]	1.ETH Zurich, 2.Imperial College London
5A	11:40	11:55	Hierarchical Surface Microstructure of White Birch Bark: Solvent-Responsive Optical Properties for Coatings	*Shogo Taira[1], Hiromi Shibui[1], Shinichi Isaji[1], Takayuki Murosaki[2], Hiroyuki Mayama[2]	1.Hokkaido Research Organization, 2.Asahikawa Medical University
5A	11:55	12:10	Single-Polynucleotide Lipid Nanoparticles: Ultrafast Assembly and Multiscale Structure	*Maxime Guichonnet[1], Johanna Mirande-Ney[1], Sebastien Teychene[1], Kevin Roger[1]	1.Laboratoire de Génie Chimique, Université de Toulouse, CNRS, Institut National Polytechnique de Toulouse, Toulouse 31400
5A	13:10	13:25	Development of a Portable Ion Pipette Aspiration (IPA) System On a Chip for Measuring the Mechanical Properties of Viscoelastic Microparticles	*Chi Minh Truong[1, 2], Scylla Sundheim[2, 3], Jenny Malmstrom[2, 3], Geoff Robert Willmott[1, 2]	1.Faculty of Science, The University of Auckland, 2.The MacDiarmid Institute for Advanced Materials and Nanotechnology, 3.Faculty of Engineering and Design, University of Auckland
5A	13:25	13:40	Mechanical Measurement of Blood Cells Using Ion Pipette Aspiration	*Akid Ornob[1], Chi Minh Truong[1], Gergely Toldi[2], Geoff Willmott[1]	1.Department of Physics, University of Auckland, 2.Liggins Institute, University of Auckland
5A	13:40	13:55	Investigating the Molecular Mechanism of Fenton Oxidation in the Headgroup of a DPPC Monolayer	*Mike Casford[1], Alex Fellows[2], Anna Nandhakumar[1], Paul Davies[1]	1.University of Cambridge, 2.Fritz Haber Institut of the Max Planck society
5A	13:55	14:10	Molecular Origins of Foam Stability in Saponin Systems: Interfacial Hydrogen Bonding versus Electrostatic Screening	*Marcel Krzan[1], Ipsita Pani[2], Mateusz Jamrozy[1], Weronika Kieres[1], Sonia Kudłacik-Kramarczyk[1], Małgorzata Nattich-Rak[1], Wojciech Płaziński[1], Bartłomiej Krzan[3], Piotr Warszyński[1], Björn Braunschweig[2]	1.Jerzy Haber Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences, 2.Institute of Physical Chemistry and Center for Soft Nanoscience, University of Münster, 3.Faculty of Medical Sciences in Katowice, Medical University of Silesia, Katowice
5A	14:10	14:25	Supramolecular Restructuring of Ultra-low Crosslinked Microgels	Alan Francisco[1], Tom Höfken[1], Stefanie Schneider[1], *Jérôme Crassous[1, 2]	1.RWTH Aachen University, 2.Forschungszentrum Jülich
5A	14:25	14:40	Osmolyte Effect of Sugars on Thermoresponsive Polymer Brushes	*Grant B Webber[1], Ben Humphreys[2], Edwin C Johnson[1], Hayden Robertson[3], Erica J Wanless[1]	1.University of Newcastle, 2.Institut Laue-Langevin, 3.Technische Universität Darmstadt

5A	14:40	14:55	Photoinduced Solid–Liquid Phase Transitions via Thermally Bistable Molecular Photoswitches	*Keiichi Imato[1], Naoki Kaneda[1], Ryuma Inami[1], Takayuki Ozawa[1], Yousuke Ooyama[1]	1.Hiroshima University
5A	14:55	15:10	Liquid–Liquid Interface Formed Between Alkyl–π and TEG–π Liquids	*Takashi Nakanishi[1, 2], Zhenfeng Guo[1, 2]	1.National Institute for Materials Science, 2.Hokkaido University
Friday, 6th			**4. [Session] Fine Particles, Nanoparticles and Nanomaterials**		
5B	10:10	10:25	Using Light Induced Chemical Activity to Detect Particle Interfacial Properties with Optical Microscopy	*Marek Bekir[1]	1.University of Potsdam
5B	10:25	10:40	Structure and Tensile and Flexural Responses of Polymer Nanocomposite Films Containing Polymer–Grafted Nanoparticles	*Taisei Ueda[1], Yusei Kobayashi[1, 2], Takahiro Ikeda[2, 3], Masashi Yamakawa[1, 2]	1.Kyoto Institute of Technology, 2.High–Perform. Simul. Res. Ctr., 3.Ctr. for Poss. Futures
5B	10:40	10:55	Simulation Analysis for Particle Grinding Behavior in Wet Ball Milling	*Kizuku Kushimoto[1], Junya Kano[1]	1.IMRAM, Tohoku University
5B	10:55	11:10	Durable Copper–Based Nanocomposite Coatings for Robust H_2S Adsorption	*Donald Hill[1], Omotoke Olonisakin[1], Shirin Alexander[1]	1.Swansea University
5B	11:10	11:25	Integrating Hansen Solubility with Drying–Induced Particle Rearrangement for High–Density SiC Green Bodies	*Ying–Chih Liao[1], Yi–Hwa Kao[1]	1.National Taiwan University
5B	11:25	11:40	Polymeric Colloids with Tunable X–ray Contrast and Colloidal Properties	*Asa Jerlhagen[1, 2], Olivia Wilson[1, 2], Tomas Rosén[1], Korneliya Gordeyeva[1], Eva Malmström[1, 2]	1.KTH Royal Institute of Technology, 2.Wallenberg Wood Science Center
5B	11:40	11:55	Micro– and Nanoplastic Contamination of The Waters of Central–Eastern Europe	*Zoltán Somosi[1]	1.Mathias Corvinus Collegium – Climate Policy Institute
5B	11:55	12:10	Tiny Particles, Big Impact: Unlocking Lignocellulose Nanoparticles for Versatile Hydrophobic Foam	*Nissa Nurfajrin Solihat[1], Juan José Valle–Delgado[1], Monika Osterberg[1]	1.Department of Bioproducts and Biosystems, Aalto University

5B	13:10	13:25	Balancing Intercluster Interactions and Shell Dynamics for Efficient Solid-State Photoluminescence in $AuCu_{14}$ Cluster Assemblies	*Megumi Suyama[1], Kiyoshi Kanie[1, 2]	1.IMRAM, Tohoku University, 2.SRIS, Tohoku University
5B	13:25	13:40	Self-Assembly Across Different Time- and Length-Scales: From ZIF-8 Nanoparticles to Photonic Mesocrystals	*Sophie Ray[1, 2], Hamish Yeung[1], Andy Smith[2], Phil Chater[2], Satoshi Tominaka[3], Sahel Fajel[4]	1.University of Birmingham, 2.Diamond Light Source, 3.National Institute of Materials Science, 4.Catalan Institute of Nanoscience and Nanotechnology
5B	13:40	13:55	Surface Curvature Effects on Interfacial Heat Transport in Polymer-Grafted Nanoparticle Nanofluids: A Molecular Dynamics Study	*Takahiro Ikeda[1, 2], Yusei Kobayashi[2, 3]	1.Center for the Possible Futures, Kyoto Institute of Technology, 2.High-Performance Simulation Research Center, Kyoto Institute of Technology, 3.Faculty of Mechanical Engineering, Kyoto Institute of Technology
5B	13:55	14:10	Spontaneous formation of free-standing tubular assemblies of gold nanoparticles	*Haruyuki Ishii[1], Masato Yoshihara[1], Kazuya Hatai[1], Tsubasa Uehara[1], Nobuyuki Harada[1]	1.Yamaguchi University
5B	14:10	14:25	Utilizing Turbulence via Microcapsules for Spatiotemporal Productivity at the Micro & Nano Scales	*Sarah Chong[1], Matteo Sabato[2], Yaocheng Li[2], Zhe Xu[1], Daquan Gao[2], Martin J Falk[2], Stefano Sacanna[1], William T. Irvine[2]	1.New York University, 2.University of Chicago
5B	14:25	14:40	Confined Self-Organization of Gold Nanorods through Surface Hydration and Ionic Effects	*Kosuke Sano[1], Takehiro Yachi[1], Megumi Suyama[1], Masaki Matsubara[2, 3], Xiangbing Zeng[4], Goran Ungar[4, 5], Hideyuki Mitomo[6], Kiyoshi Kanie[1, 2]	1.IMRAM, Tohoku University, 2.SRIS, Tohoku University, 3.National Institute of Technology, Sendai College, 4.School of Chemical, Materials and Biological Engineering, University of Sheffield, 5.School of Materials Science and Engineering, Xi'an Jiaotong University, 6.Research Institute for Electronic Science, Hokkaido University
5B	14:40	14:55	G-Quadruplex DNA-Functionalized Gold Nanoparticles for Rapid and Selective Colorimetric Biosensing	*Surachada Chuaychob[1], Masahiro Fujita[2], Mizuo Maeda[2]	1.Institute of Advanced Energy, Kyoto University, 2.RIKEN institute
5B	14:55	15:10	Effect of Outer Glassy Blocks on the Mechanical Deformation of Block Copolymer-Grafted Silica Nanocomposites	*ChaoHung Cheng[1, 2], Shiori Masuda[2], Shuhei Nozaki[2], Chigusa Nagano[2], Tomoyasu Hirai[2, 3, 4], Ken Kojio[2, 3, 4], Atsushi Takahara[2, 3, 4]	1.Department of Chemical Engineering, National Chung Cheng University, 2.Graduate School of Engineering, Kyushu University, 3.IMCE, Kyushu University, 4.WPI-I2CNER, Kyushu University
Friday, 6th			**3. [Session] Soft Matter and Biosystems**		
5C	10:10	10:25	Motile and Adaptive Droplet Force Gradient Sensors	*Lukas Zeininger[1]	1.The University of Melbourne
5C	10:25	10:40	Fabrication of Microscopic Liquid Marbles from SiO_2-CH_3 nanoparticles by Aerosol Spraying	*Constanza Rodriguez Alonso[1], Catalina Navarrete[1], Benjamín Schleyer[1], Tomás Corrales[1], Syuji Fujii[2]	1.Departamento de Física, Universidad Técnica Federico Santa María , 2.Department of Applied Chemistry, Faculty of Engineering, Osaka Institute of Technology

5C	10:40	10:55	Morphological Characterization of Micro-Liquid Marbles Using Digital Lensless Holographic Microscopy	*Martín Vilches[1], Constanza Rodríguez[1], Tomas Corrales[1], Syuji Fujii[2], Jorge Tapia[1]	1.Departamento de Física, Universidad Técnica Federico Santa María, Chile, 2.Department of Applied Chemistry, Faculty of Engineering, Osaka Institute of Technology, Japan
5C	10:55	11:10	Branched and Filled Gels	*Filip Uhlík[1], Oleg V. Borisov[2], Ekaterina B. Zhulina[3]	1.Charles University in Prague, 2. Institut des Sciences Analytiques et de Physico-Chimie Pour l'Environnement et les Matériaux, 3.Institute of Macromolecular Compounds of the Russian Academy of Sciences
5C	11:10	11:25	3D Reflectometry as a Probe for Examining the Architecture of Microgels at Fluid Interfaces	*Hayden Robertson[1], Olaf Soltwedel[1], Regine von Klitzing[1]	1.Technical University of Darmstadt
5C	11:25	11:40	Acousto-responsive Microgels: A Non-invasive Approach for Microgel Dehydration	*Amin Rahimzadeh[1], Regine von Klitzing[1]	1.Technical University of Darmstadt
5C	11:40	11:55	Effect of Particle Volume Fraction on the Deformation Efficiency of Microgels in a Microgel-Reinforced Hydrogel	*Tomoki Yasui[1], Masato Ishimoto[2], Ryotaro Nakamura[2], Takayuki Kurokawa[1]	1.Faculty of Advanced Life Science, Hokkaido University, 2.Graduate School of Life Science, Hokkaido University
5C	11:55	12:10	Universal Active Phase Transition Under Photochemical Reaction	*Jinyao Tang[1], Xiaofeng Li[1], Jialin Lai[1]	1.The University of Hong Kong
5C	13:10	13:25	Emulsion-templated Preparation of Smart Nanocapsules	*Akifumi Kawamura[1], Miyu Shimizu[1], Tatsuya Miyoshi[1], Takashi Miyata[1]	1.Kansai University
5C	13:25	13:40	Architecture-Controlled Formation of Thermoresponsive Polymeric Nanoparticles	*Ken Terao[1]	1.The University of Osaka
5C	13:40	13:55	Synthetic Nano-Chaperones Based on Molecularly Imprinted Polymer Nanoparticles for Protein Stabilization	*Damla ULKER[1], Isobel Finnamore[1], Daniel Shaw[2], Neil Hunt[2], Nicholas Turner[1]	1.School of Mathematical and Physical Sciences, University of Sheffield. 2.Department of Chemistry and York biomedical Research Institute, University of York.
5C	13:55	14:10	Superchaotropic Binding: Polyoxometalate Stabilization and pH-Responsive Crosslinking in Cellulose Ether Solutions and Hydrogels	*Vighnesh Balkrishna Lokare[1], Amina Ledinic[1], Nina Wehr[2], Max Hohenschutz[1]	1.Institute of Physical Chemistry, RWTH Aachen, 2.ITMC, RWTH Aachen
5C	14:10	14:25	Can Soft Confinement Geometry Redirect Gold Nanoparticle Synthesis?	*Hilda Camila Nascimento Nogueira[1], Álvaro Javier Patiño-Agudelo[2], Edvaldo Sabadini[2], Viviane Lutz-Bueno[1]	1.Laboratory for Neutron Scattering and Imaging, PSI Center for Neutron and Muon Sciences, PSI, 2.Institute of Chemistry, University of Campinas, UNICAMP

5C	14:25	14:40	Forming Gold Nanoparticles in Bacterial Growth Media	*Tzu-Lin Helen Ho[1], Meret Kaliske[1], Thomas Kister[1], Wilfried Weber[1, 2], Tobias Kraus[1, 3]	1.INM – Leibniz Institute for New Materials, 2.Saarland University, Department of Materials Science and Engineering, 3.Saarland University, Colloid and Interface Chemistry
5C	14:40	14:55	A Scattering Approach to Understanding Protein–Nanoparticle Interactions within Ionic Liquids and Deep Eutectic Solvents	*Zachary Candiloro[1], Hank Han[1], Andrew Christofferson[1], Calum Drummond[1], Tamar Greaves	1.RMIT University
5C	14:55	15:10	Ultra-Small Gold Nanoparticle Adsorption and Uptake Is Directed by Bio-Membrane Composition	*Aaron Elbourne[1]	1.RMIT University
Friday, 6th			**5. [Session] Dispersion and Aggregation**		
5D	10:10	10:40	Colloidal clusters from confined self-assembly	*Nicolas Vogel[1]	1.Friedrich-Alexander Universität Erlangen-Nürnberg
5D	10:40	10:55	High angle-dependent structural color materials fabricated from hollow particles	*Yukikazu Takeoka[1]	1.Nagoya University
5D	10:55	11:10	Observation of Structure Formation in Photonic Balls via Structural Color Signatures	*Ryosuke Ohnuki[1], Yukikazu Takeoka[2], Shinya Yoshioka[1]	1.Tokyo University of Science, 2.Nagoya University
5D	11:10	11:25	Temperature-Controlled Particle Assembly Structures and Structural Color in Dispersions	*Yui Maejima[1], Keiki Kishikawa[1], Michinari Kohri[1]	1.Chiba University
5D	11:25	11:40	Scalable Synthesis of Structural Color Pigments	*Michelle Berthold[1], Nicolas Vogel[1]	1.Friedrich-Alexander University Erlangen-Nürnberg
5D	11:40	11:55	Control of Order of Photonic Structures towards Angle-Independent Color by Spray Coating	*Annika Mauch[1], Nicolas Vogel[1]	1.Friedrich-Alexander-University Erlangen-Nuernberg
5D	11:55	12:10	The Advantages of Spherical Assemblies of Mesoporous Fine Particles as Hierarchical Materials over Unimodal Mesoporous Particles in Liquid-Phase Packed-Bed Adsorption	*Tom A.J. Welling[1], Natsuho Tsunetomi[1], Kanako Watanabe[1], Daisuke Nagao[1]	1.Tohoku University

5D	13:10	13:25	Raman Analysis of Proteins on Peptide-Modified Gold Nanoparticle Self-Assembled Films	*Hideyuki Mitomo[1], Md Abdul Kaiyum[1], Tianxu Gao[1], Kuniharu Ijiro[1]	1.Hokkaido University
5D	13:25	13:40	Re-entrant Melting and Programmable Assembly in Triplex-forming DNA-Coated Colloids	Matthieu Soula[1], Serge Ravaine[1], *Etienne Ducrot[1]	1.CRPP, CNRS, Bordeaux University
5D	13:40	13:55	Surface-Force-Governed Self-Assembly of Binary Nanoparticle Mixtures during Evaporative Deposition	*Ekhlas Homede[1], Mohammad Abo Jabal[2], Ofer Manor[3]	1.The Institute of Applied Research- The Galilee Society , 2.Shenkar College , 3.Technion- Israel Institute of technology
5D	13:55	14:10	Millisecond X-ray scattering observation for rapid shear melting of colloidal crystals	*Keishi Akada[1], Ryoichi Ishibashi[2], Motoyoshi Kobayashi[2], Hiroshi Sekiguchi[1]	1.Japan Synchrotron Radiation Research Institute, 2.Univ. of Tsukuba
5D	14:10	14:25	Evolution of Polycrystallinity in Homogeneously Nucleated Colloidal Crystals	*Merin Jose[1], Nicholas H. P. Orr[2], Taiki Yanagishima[1], Roel P. A. Dullens[3]	1.Tokyo Metropolitan University , 2.CNRS Paris, 3.Radboud University Nijmegen
5D	14:25	14:40	Surface-Modified Three-Dimensional Metal Selenide Nanocrystal Superlattices for Selective Molecular Uptake and Release	*Masaki Saruyama[1], Yan Xia[1], Toshiharu Teranishi[1]	1.Kyoto University
5D	14:40	14:55	Toughness Enhancement of Porous Patterned Films Formed by Aggregation of UV-Cured Emulsions Using Polymer Latex	*Yoshimi Inaba[1, 2], Takayuki Yanagisawa[1], Yasunori Kurauchi[1], Shuichi Maeda[2]	1.Toppan Holdings Inc., 2.Tokai University
5D	14:55	15:10	Contrasting Pathways in Evaporation-Induced Switching of TiO_2 Suspensions: From Flocculation to Dispersion and Reverse Transitions	*Ryushi Fukuhara[1], Akio Nasu[1], Susumu Inasawa[2, 3]	1.Mirai Technology Institute, Shiseido Co., Ltd., 2.Graduate School of Engineering, TUAT, 3.Department of Applied Physics and Chemical Engineering, TUAT
Friday, 6th			**1. [Session] Surfactants and Amphiphilic Materials**		
5E	10:10	10:40	Colloidal Dispersions Based on Aqueous Two-Phase Systems	*Jordi Esquena[1], Jonathan Miras[1], Susana Vílchez[1], Carlos Rodríguez-Abreu[1]	1.Institute of Advanced Chemistry of Catalonia (IQAC), Spanish National Research Council (CSIC), and Networking Research Center on Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN, ISCIII)
5E	10:40	10:55	Au/SiO_2 Hybrid Nanoparticles as a Versatile Platform for Green Interfacial Catalysis: From Pickering Emulsions to Foam Models	*Jean-François DECHEZELLES[1], Jordan Bassetti[1], Yaoyao Feng[1], Xiaoyi Huang[1], Marc Pera-Titus[2], Véronique Nardello-Rataj[1]	1.UCCS – Centrale Lille Institute, 2.Cardiff Catalysis Institute, Cardiff university

5E	10:55	11:10	In Situ Hydrophilization of Hydrophobic Silica Particles by Polar Oils and Phase Inversion of Pickering Emulsions	*Ryo Murakami[1], Moeto Taniguchi[1]	1.Konan University
5E	11:10	11:25	Understanding the Softening Impact of pNIPAM Nanogel-Based Pickering Emulsions Through On-Chip Microfluidics	*Ricky Frank López-Santiago[1], Minne Paul Lettinga[2, 5], Andrea Scotti[3], Giovanniantonio Natale[4], Walter Richtering[1]	1.RWTH Aachen University, 2.Forschungszentrum Jü lich, 3.Lund University, 4.University of Calgary, 5.KU Leuven
5E	11:25	11:40	Evaluating Formulation and Performance of Polymer-Stabilised HIP Emulsions for Fine Particle Agglomeration	*Yuri Leandro Rodrigues Lopes Fernandes[1, 2], Negin Amini[1, 2], Alisha Debas[1, 3], Erica J. Wanless[1, 4], San H. Thang[1, 3], Ellen Moon[1, 2]	1.ARC Centre of Excellence for Enabling Eco-Efficient Beneficiation of Minerals, 2.Deakin University, 3.Monash University, 4.University of Newcastle
5E	11:40	11:55	Physicochemical Properties of Emulsions Stabilized by High-Pressure Fibrillated Hydroxypropyl Cellulose Mixed with a Cationic Surfactant	*Shiori Adachi[1], Yoshihisa Fujii[1], Naoya Torikai[1]	1.No.1 : Department of Applied Chemistry, Graduate School of Engineering, Mie University
5E	11:55	12:10	Engineering Sensorial Experience Through Emulsion Microstructures in Cosmetics	*Kathryn M Knight[1], Uyai Ikpatt[1], Magali Bonnier[3], Ferdaous El Benni[1], Holly Jones[1], Karine Desseille[3], Mary Grace Miranda[2], Jasmine Leong[2], James Flavell[1], Airit Agasty	1.Croda Europe Ltd, 2.Croda Singapore, 3.Croda France
5E	13:10	13:25	Tuning Interfacial Lipid Crystallisation via Emulsifier Headgroup Structure	Malgorzata Hermanowska-Young[1], Anton Blencowe[2], Rico F. Tabor[3], Brad Mansel[4], Matt Golding[4], David A. Beattie[1], *Marta Krasowska[1]	1.Future Industries Institute, Adelaide University, 2.School of Pharmacy and Biomedical Sciences, College of Health, Adelaide University, 3.School of Chemistry, Monash University, 4.Fonterra Research and Development Centre
5E	13:25	13:40	Viscoelastic Behavior of Interfacial Films Formed by Surfactants and Lipids at the Oil/Water Interface	*Hideki Sakai[1, 2], Hiroki Kuwabara[1, 3], Rio Kitano[1], Koji Tsuchiya[2], Kyosuke Arakawa[1], Yoshifumi Yamagata[4], Kenichi Sakai[1, 2]	1.Faculty of Science and Technology, Tokyo University of Science, 2.Research Institute for Science and Technology, Tokyo University of Science, 3.Ikeda Mohando Co., Ltd., 4.Anton Paar Japan K. K.
5E	13:40	13:55	Spontaneous Flow Dynamics Induced by Two Chemical Species at an Oil/Water Interface	*Kosei Yasuda[1], Florian Voss[2], Uwe Thiele[2], Hiroyuki Kitahata[3], Tomonori Nomoto[3], Kiwamu Yoshii[1], Yutaka Sumino[1]	1.Tokyo University of Science, 2.University of Münster, 3.Chiba University
5E	13:55	14:10	Foamability Enhancement by Polymer-Surfactant Complexes: The Role of Short-Time Physical Stability of Foam Film	*Shunsuke Urabe[1], Shuhei Urashima[2], Kotaro Ichimaru[2], Hiroharu Yui[2], Takaya Sakai[1]	1.Kao Corporation, 2.Tokyo University of Science
5E	14:10	14:25	How Foams Collapse: From Film Rupture to Droplet Emission	*Rei Kurita[1], Naoya Yanagisawa[2]	1.Tokyo Metropolitan University, 2.The University of Tokyo
5E	14:25	14:40	Composite Foams Based on Surfactants and Silica Nanoparticles for Enhanced Oil Recovery	Miras Issakhov[1], Peyman Pourafshary[2], Maratbek Gabdullin[1], Fariza Amankeldi[3], *Saule Aidarova[1]	1.Kazakh-British Technical University, 2.Nazarbayev University, 3.Al-Farabi Kazakh National University

5E	14:40	14:55	Zwitterionic Polymer–Lipid Conjugates for Medical and Cosmeceutical Applications	*Voravee Hoven[1, 2], Pongsakorn Yuntasiri[1]	1.Department of Chemistry, Faculty of Science, Chulalongkorn University, 2.Center of Excellence in Materials and Bio–interfaces, Chulalongkorn University
5E	14:55	15:10	Light Triggered Structural Dynamics In Photoresponsive Lipid Nanoparticles Probed Using Time–Resolved SAXS	*Luigi Talarico[1, 2, 3], Ilaria Clemente[1, 2, 3], Giulia Gabbricci[1, 2, 3], Simone Cataldini[1], Ilektra Mavromatidou[1], Aleksi Sutinen[4], Clement Blanchet[4], Jack Li–Yang Chen[1], Agnese Magnani[1, 2, 3]	1.Department of Biotechnology, Chemistry and Pharmacy, University of Siena, 2.Center for Colloids and Surface Science (CSGI), 3.National Interuniversity Consortium of Material Science and Technology, 4.European Molecular Biology Laboratory (EMBL) Hamburg
Friday, 6th			**6. [Session] Solid Surfaces: Wetting, Adsorption, Catalysis, Adhesion, and Electrochemistry**		
5F	10:10	10:40	The Critical Role of Interface Studies in Advancing Energy Storage Technologies	*Wan–Yu Tsai[1]	1.Lille University
5F	10:40	10:55	Wettability–Engineered Electrolyzer Interfaces for Directional Bubble Transport and Gas Crossover Suppression	*Jungki Ryu[1], Dong Woog Lee[1], Yunseok Kang[1], Seunghyun Lee[1]	1.Ulsan National Institute of Science and Technology
5F	10:55	11:10	Neutron Total Scattering and Computational Modelling as a Method to Probe Electrolyte Structure Confined in Nanoporous Carbon Supercapacitor Electrodes.	*Rakin Gilani[1, 2], Chris Howard[1], Tom Headen[2]	1.University College London, 2.ISIS Neutron and Muon Source
5F	11:10	11:25	Interfacial Compatibility of Hydride–based Electrolytes for Ca Metal Batteries	*Kazuaki Kisu[1]	1.Shibaura Institute of Technology
5F	11:25	11:40	Potential–Dependent Diffusion and Concentration Distribution of Ag^+ near Ionic Liquid/Electrode Interfaces	*Akihtio Imanishi[1], Yosei Uotani[1], Ken–ichi Fukui[1]	1.Graduate School of Engineering Science, Osaka University
5F	11:40	11:55	Interfacial Engineering of Copper–Iodide Complex–Based Double Redox Electrolytes for SustainableDirect–Contact DSSCs	*YUN HAO FAN[1], Zhi Qing Lim[1], Shanmuganathan Venkatesan[1]	1.Department of Chemical Engineering, College of Engineering, National Cheng Kung University, Tainan 701, Taiwan,Republic of China
5F	11:55	12:10	Kinetic Sieving of Li Ions in Capacitive Deionization	Masaaki Matsui[1], Takashi Ishida[1], Hiroo Notohara[1], Yasuyuki Yamane[2], Isamu Moriguchi[1], *Koki Urita[1]	1.Nagasaki University, 2.Osaka Gas Chemicals Co., Ltd.
5F	13:10	13:25	Controlling Solid–Liquid Electrification by Pre–Depositing Surface Charge	Shuajia Chen[1], *Joseph Berry[1]	1.University of Melbourne

5F	13:25	13:40	Bipolar Surface Charging by Evaporating Water Droplets	*NITISH SINGH[1], Aaron D Ratschow[3], Nabeel Aslam[2], Dan Daniel[1, 2]	1.Okinawa Institute of Science and Technology, 2.King Abdullah University of Science and Technology, 3.Max Planck Institute for Polymer Research
5F	13:40	13:55	Spontaneous Electrowetting By Sliding Drops: A Modified Young–Lippmann Equation	*Aaron D. Ratschow[1]	1.Max Planck Institute for Polymer Research
5F	13:55	14:10	Droplet Mobility Probes: Wetting Electrification to Electrochemical Corrosion	*William S. Y. Wong[1, 2], Parham Koochak[1, 3], Marcus Lin[4], Dan Daniel[2], Maja Vuckovac[1]	1.Aalto University, 2.Okinawa Institute of Science and Technology, 3.University of Pennsylvania , 4.University of Tokyo
5F	14:10	14:25	Unusual wettability bifurcation: Repellent/Sticky droplets coexistence on a non–textured surface	*Mizuki Tenjimbayashi[1], Shunto Arai[1]	1.National Institute for Materials Science (NIMS)
5F	14:25	14:40	Springtail–Inspired Surface Architectures for Structure–Driven (Super)Amphiphobicity	*Cerys Cormican[1], Francisco Martin–Martinez[2, 1], Joel Loveridge[1], Shirin Alexander[1]	1.Swansea University, 2.King's College London
5F	14:40	14:55	Enhancing Bubble Removal in Gas Evolution Reactions	*DONG WOOG LEE[1]	1.Ulsan National Institute of Science and Technology (UNIST)
5F	14:55	15:10	Data–Driven Discovery of Thin–Film Dynamics in Superspreading Nanofluids	*Eita Shoji[1], Kai Fukami[1]	1.Tohoku University
Friday, 6th			**2. [Session] Molecular Films**		
5G	10:10	10:40	Creation and Destruction of Gibbs Monolayers Far from Equilibrium	*Colin D Bain[1]	1.Durham University
5G	10:40	10:55	Interfacial Structure of Anions by Nonlinear Vibrational Spectroscopy	*Hongtao Bian[1]	1.Shaanxi Normal University
5G	10:55	11:10	Effect of Audible Sound on the Interactions Between a Particle and an Air–Aqueous Interface	*Cathy McNamee[1], Michael Kappl[2], Hans–Juergen Butt[2]	1.Kyoto University, 2.Max Planck Institute for Polymer Research

5G	11:10	11:25	Lipid Scrambling Amplifies Plasma Membrane Undulations via Domain Reorganization	*Teppei Yamada[1], Wataru Shinoda[2]	1.Graduate School of Environmental, Life, Natural Science and Technology, Okayama University, 2.Research Institute for Interdisciplinary Science, Okayama University
5G	11:25	11:40	Sponge Phase Lipid Nanoparticles for Biomolecular Delivery – Structure and Biomembrane Interactions	Marshall R. Machingauta[1], Thea Kristersdotter[1], Alessandra Luchini[2], Tun Naw Sut[3], Joshua Jackman[3], Ben Humphreys[4], Christelle N. Prinz[1], Karin Schillen[1], *Tommy Nylander[1, 3]	1.Lund University, 2.University of Perugia, 3.Sungkyunkwan University, 4.Institut Max von Laue – Paul Langevin (ILL)
5G	11:40	11:55	Novel Water-Assisted Method to Form Hyper-Giant Liposomes from Prehydrated Precursor Lipid Films	*MINGYU WANG[1], Yuichi Takasaki[1], Yuichi Sakanishi[1], Kazutami Sakamoto[1], Yuichi Sugizaki[1], Yuji Yamashita[1]	1.Kanagawa University
5G	11:55	12:10	Effect of Added Cations on Adhesion and Structural Changes in Multicomponent Lipid Vesicles	*Takanori Takiue[1, 2], Hatsunosuke Maruyama[2], Mika Matsuo[1, 2], Takeharu Sugiyama[3]	1.Faculty of Arts and Science, Kyushu University, 2.Faculty of Science, Kyushu University, 3.RCSLA, Kyushu University
Friday, 6th			**18. [Symposium] Novel Theories and Measurements on Nanoconfined Molecules and Ions**		
5G	13:10	13:40	High-Pressure Effects in Confined Fluids Revealed by Ultrasound and Dilatometry	*Gennady Gor[1]	1.New Jersey Institute of Technology
5G	13:40	13:55	Understanding the glass transition(s) of water under soft nanoconfinement	*Raffaele Mezzenga[1]	1.ETH Zurich
5G	13:55	14:10	Adsorption Behavior of 6-Membered Ring Alicyclic Hydrocarbons on ZIF-8: Insight from the Adsorption Kinetics	*Takahiro Ueda[1], Yuta Yamada[1], Kota Fujii[1], Ryota Mihara[2], Taku Iiyama[2], Yasutaka Hamada[1], Mitsutaka Okumura[1]	1.The University of Osaka, 2.Shinsyu University
5G	14:10	14:25	Molecular Passage Mechanism of Benzene and its Analogues in Flexible ZIF-8 Revealed by Free Energy Analysis	*Ryota Mihara[1], Takahiro Ueda[2], Ryusuke Futamura[1], Taku Iiyama[1]	1.Shinshu University, 2.University of Osaka
5G	14:25	14:40	Enhanced Autoprotolysis of Water in Carbon Nanospace	*Takahiro Ohkubo[1], Norihiro Kowata[1], Tomoyuki Misaki[1], Shotaro Hashimoto[1]	1.Okayama University
5G	14:40	14:55	Mobile to Organized Adsorbed State Transformation of Water in Hydrophobic Carbon Nanopores	*Hayato Otsuka[1], Diego Hernández-Barreto[2], Yasuhiro Sugiyama[2], Yuma Kawamata[3], Masanari Nagasaka[4], Katsumi Kaneko[2]	1.Faculty of Engineering, Shinshu university, 2.Institute for Aqua Regeneration, Shinshu University, 3.Department of Chemistry, Faculty of Science, Shinshu University, 4.Institute for Molecular Science

5G	14:55	15:10	The unique dissolution and precipitation behavior of water nano-solution	Takeru Yokoyama[1], Yuka Matsuda[1], Takahiro Ueda[2], Ryusuke Futamura[1], *Taku Iiyama[1]	1.Shinshu University, 2.University of Osaka