

Track	Presenter Last Name	Presenter First Name	Poster Title
a) Active & Responsive Matter	Gomez	Javier	Collective dynamics of polarizable particles under confinement
a) Active & Responsive Matter	Honnigfort	Christian	Hydroxypropyl cellulose as a green polymer for thermo-responsive aqueous foams
a) Active & Responsive Matter	Lee	Jin Gyun	Electric field driven assembly and reconfiguration of active suprastructures: From micromotors to living crystals
a) Active & Responsive Matter	Pirone	Domenico	Visible light and thermo-triggering of new asymmetric azobenzene compounds
a) Active & Responsive Matter	Zhao	Zhiyuan	Effect of particle diameter and magnetic anisotropy on magnetorelaxometry and magnetic particle imaging performance of immobilized magnetite nanoparticles
b) Bio-Inspired Systems	Caparco	Adam	Medium composition and synthesis environment affects the morphology of protein-inorganic calcium-phosphate supraparticles
b) Bio-Inspired Systems	Dautel	Dylan	Engineering Recombinant Fusion Enzyme Vesicles for Biocatalysis
b) Bio-Inspired Systems	LAN	CHI	A comparison between water hydration behavior of materials with nonionic EO groups and zwitterionic Sulfobetaine (SB) and Carboxybetaine (CB) groups
b) Bio-Inspired Systems	Ordiway	Kaitlin	The uptake and translocation of CuO nanoparticles in Arabidopsis thailana
b) Bio-Inspired Systems	Pittman	Zachariah	Surface Modified Cellulose Nanocrystal Phase Behavior
b) Bio-Inspired Systems	Stefani	Laurel	Presenting an antimicrobial peptide target for CompELS
b) Bio-Inspired Systems	Tsung	Ko-Lan	Formation and characterization of zein-based oleogel
c) Colloidal & Surface Forces	Brown VI	Martin	Self-assembly of microstructures from evaporation of volatile diluted American whiskey
c) Colloidal & Surface Forces	Chakraborty	Sourojeet	Coalescence-based wetting of a surface by an emulsion drop
c) Colloidal & Surface Forces	Maganti	Lasya	Stability of nanoparticles in brines: effect of ligand structure and solvent shell
c) Colloidal & Surface Forces	Min	Younjin	Influence of Nanoconfinement on Geocolloidal Interactions and Relaxation Dynamics
d) Colloids & Macromolecules in Life Sciences	Brambila	Carlos	Microbubble and Nanobubble Expansion using Perfluorocarbon Nanodroplets: A new Strategy for Enhanced Ultrasound Imaging and Therapy
d) Colloids & Macromolecules in Life Sciences	Conner	Cathryn	Development of novel stability assays for protein biopharmaceuticals using time-dependent light scattering analysis
d) Colloids & Macromolecules in Life Sciences	Gonzalez	Carmen	Alginate bead production by co-extrusion technology and application in ginger oil encapsulation
d) Colloids & Macromolecules in Life Sciences	Gonzalez	Carmen	Rheology of water in water emulsions:water-casein-pectin sytem
d) Colloids & Macromolecules in Life Sciences	Isakhov	Bakdaulet	Friction as a means of detecting biomolecules with ultrahigh sensitivity and specificity
d) Colloids & Macromolecules in Life Sciences	Jett	Margaret	Impedance spectroscopy based evaluation of phytoplankton health
d) Colloids & Macromolecules in Life Sciences	Kannan	Aadithya	Interfacial behavior of monoclonal antibody-surfactant mixtures and their effect on aggregation
d) Colloids & Macromolecules in Life Sciences	Karimi	Zahra	Investigating the effect of surface energy of the substrate on algal attachment
d) Colloids & Macromolecules in Life Sciences	Lubecki	Lauren	Characterizing Hydrogels as Drug Delivery Systems to Maximize Release of Active Protein
d) Colloids & Macromolecules in Life Sciences	Park	Ye Jin	Mechanically robust multilayered emulsion films for temperature-responsive drug delivery adhesive patches
d) Colloids & Macromolecules in Life Sciences	Seeman	Daniel	Soluble Precursors in Macromolecular Complex Fluids: Light Scattering as a High Sensitivity Technique for Characterizing Colloidal Clusters
d) Colloids & Macromolecules in Life Sciences	Sharma	Radhika	Development of DNAzyme-Lipid Nanostructures for Targeted Gene Regulation

d) Colloids & Macromolecules in Life Sciences	Shremshock	Mikala	Particle characterization and affect on beer flavor profiles
d) Colloids & Macromolecules in Life Sciences	Tang	Christina	Sequential Delivery of Nanoparticle Drug-Cocktails for Chemotherapy
e) Directed & Self-Assembly	Hamade	Fatima	Microstructure effects of self-assembled graphene/manganese oxide dispersions
e) Directed & Self-Assembly	Rahman	Md Mahmudur	Colloid structure formation through hydrodynamic interactions near a wall in a vertically rotated confined cell
e) Directed & Self-Assembly	Tsyrenova	Ayuna	Amphiphilic Janus sphere assembly mediated with surface-active molecules
e) Directed & Self-Assembly	Victoria-	Jonathan	Self-Assembly of Magnetic Janus Colloids with Radially Shifted Dipoles
e) Directed & Self-Assembly	Yan	Jiarui	Kinetics, ensemble dynamics, and immobilization of colloidal ellipsoids in response to electric fields
f) Electrokinetics, Micropores & Microfluidics	Riad	Adham	Flow Behavior in a Shear Driven Highly Charged Slit Microchannel
g) Emulsions, Bubbles & Foams	Boltyanskiy	Rostisalav	Distinguishing Rocks from Drops using Holographic Video Microscopy
g) Emulsions, Bubbles & Foams	Davis	Cole	Impact of processing route and composition on bilge water emulsion formation and stability
g) Emulsions, Bubbles & Foams	Izmitli	Aslin	Balancing Performance of Defoamers in Wood Coating Formulations
g) Emulsions, Bubbles & Foams	Martins Amado	Juliana	Phase equilibrium of Langmuir films of a natural surfactant and its correlation with stability of cosmetic emulsions
g) Emulsions, Bubbles & Foams	Okesanjo	Omotola	Capillary Foams: Properties and Applications
g) Emulsions, Bubbles & Foams	Parajuli	Sanjiv	Surface and interfacial interactions between cellulose nanocrystals and surfactants in brine and its implications on Pickering emulsion stability
g) Emulsions, Bubbles & Foams	Seah	Khai Wenn	Preparation of highly concentrated monodispersed emulsion using microchannel emulsification
g) Emulsions, Bubbles & Foams	Sun	Yueming	Electrogeneration of highly viscous droplets on demand
g) Emulsions, Bubbles & Foams	Zhang	Tong	One-step fabrication of Pickering double emulsions and their controlled release properties
h) Energy, Catalysis & Separations	Harrison	Andrew	Effect of Polymer Nanoreactor Core Material on Oxidant Availability
h) Energy, Catalysis & Separations	Joshi	Chinmay	Colloidal metal nanoparticles for catalysis.
h) Energy, Catalysis & Separations	Zhu	Jiawei	Efficient Water Oxidation in Acidic Media Enabled by Iridium-based Cubic Nanocages with 1.1-nm-thick Walls
i) Environmental Systems & Sustainability	Sapre	Aditya	Understanding Fundamental Interactions between Spores, Lignin Nanoparticles, Rose Petals, and Their Impacts on Fungal Infection
i) Environmental Systems & Sustainability	Shremshock	Mikala	Effect of nutrient matrix particle characteristics in growing media and hydroponics
i) Environmental Systems & Sustainability	Zhang	Luo	Syntheses and catalytic applications of Ag-Rh core-frame nanocubes and Rh nanoboxes
i) Environmental Systems & Sustainability	Zhang	Wenjing	Effect of different colloids on Fe migration in saturated porous media under variable hydrochemical and hydrodynamic conditions
j) Formulation, Processing & Manufacturing on the Colloidal Length Scale and Beyond	Caicedo-Casso	Eduard	A macroscale visualization technique to calculate dissolution time of polymers used in water-soluble films
j) Formulation, Processing & Manufacturing on the Colloidal Length Scale and Beyond	Chen	Ruhui	Continuous and Scalable Synthesis of Pt Multipods with Enhanced Electrocatalytic Activity toward the Oxygen Reduction Reaction
j) Formulation, Processing & Manufacturing on the Colloidal Length Scale and Beyond	Lan	Tian	Impact of silicone slip/mar additives on the performance and surface characteristics of acrylic emulsion coatings
j) Formulation, Processing & Manufacturing on the Colloidal Length Scale and Beyond	Lee	Sung Min	All-water-based solution processed Ag nanofilms for highly efficient electrocatalytic reduction of CO <sub>2</sub> to CO
j) Formulation, Processing & Manufacturing on the Colloidal Length Scale and Beyond	Ma	Fuduo	Effects of Key Coating Parameters on Cationic Electrodeposition Throwpower
j) Formulation, Processing & Manufacturing on the Colloidal Length Scale and Beyond	Requejo Roque	Katherine	Increasing yield and long-term stability by using poly(vinylpyrrolidone) during synthesis of gold nanoprisms

j) Formulation, Processing & Manufacturing on the Colloidal Length Scale and Beyond	Xie	Minghao	Both reduction kinetics and surface capping play important roles in controlling the formation of Au@Pd concave nanocubes
k) General Session	Durbin	Marlow	Novel approaches towards pi-conjugated hydrogels for bioelectronics
k) General Session	Li	Bingbing	Crystallization of poly(caprolactone) in Langmuir films: effects of multiple hysteresis cycles and compression rate
k) General Session	Li	Tzu-Han	Effect of dispersity on the conformation of polymer-grafted nanoparticles
k) General Session	Mangal	Deepak	Simulation of Nanoparticle Transport through Ordered Porous Media
k) General Session	Visco	Angelo	Characterization of High-Viscosity Liquids Using Surface Light Scattering Spectroscopy
k) General Session	Zhang	Luo	Defect-assisted deposition of Au on Ag for the fabrication of core-shell nanocubes
k) General Session	Zhao	Bin	Thermally Induced Worm-to-Sphere Shape Transitions of Linear Molecular Bottlebrushes in Water
l) Jamming, Gelling & Rheology	Samaniuk	Joseph	Probing dynamics of hydrate film formation and dissociation using interfacial rheology with sub-phase exchange.
l) Jamming, Gelling & Rheology	Seo	Minjeong	Reversible sol-gel transition of biocellulose nanofluids via shear stress-responsive host-guest interaction
l) Jamming, Gelling & Rheology	Shim	Yul Hui	Reduced Viscosity of Graphene Oxide Liquid Crystal Suspension with Polymer-induced Interaction
l) Jamming, Gelling & Rheology	Yang	Gang	Particle tracking microrheology of cytoplasm with total internal reflection microscope (TIRM)
m) Particles & Molecules at Fluid Interfaces	Chen	Jianzhong	Isothermal Cycles of the n-Docosanol Monolayer: Effect of Temperature & Targeted Surface Pressure
m) Particles & Molecules at Fluid Interfaces	Hinton	Zachary	Equilibrium Surfactant Thermodynamics as a Function of Pressure
m) Particles & Molecules at Fluid Interfaces	Portelli	Joseph	Building Better Bubbles: Partitioning the Proteins KFF and KYF onto the Gas-Liquid Interface of Sub-Micron Sized Bubbles
n) Wetting & Adhesion	Daniel	Dan	Mapping wetting variations on surfaces with piconewton force and micrometric lateral resolutions
n) Wetting & Adhesion	Lim	Hyuneui	Effects of lubricant characteristics on wetting behavior of slippery lubricant-infused porous surfaces
n) Wetting & Adhesion	Sanson	Nicolas	New direct measurement of the layer thickness of adsorbed polymer squeezed by an oil droplet