

Fall 2020 COLL LiveStream Program, August 16-20

(All are Pacific Time)

ZOOM links to sessions are below the Presider names

Program and ZOOM links are also posted on COLL website <https://www.colloidssurfaces.org/conferences/>

Time (Pacific Time)	Duration (min)	Abstract ID	Title Presenter; Email Institution
Sunday PM Posters - Oral Pitch Presider: Lorena Tribe, lut1@psu.edu https://psu.zoom.us/j/93937162862?pwd=eDZwNS9ialF1L2N2NDZWN0xlTkQ2QT09			
2:00	10	3428170	Microwave assisted synthesis of cesium lead halide nanoplatelets Zamani, Hedyeh; hzamani@syr.edu Syracuse University
2:10	10	3430221	Forming libraries of uniform magnetic multicore nanoparticles with tunable dimensions for biomedical applications Xiao, Zhen; zhen_xiao@brown.edu Brown University
2:20	10	3430017	Anchoring transitions induced by stimuli-responsive amphiphiles at the liquid crystal-water interface Shivrayan, Manisha; mmanisha@umass.edu UMass Amherst, MA
2:30	10	3431710	Thermodynamic stabilization of nanoparticle size distributions: interfacial energy measurement and limits on monodispersity Nelson, Andrew; awn32@cornell.edu National Institute of Standards and Technology
2:40	10	3432961	Synthesis and characterization of stereospecific cationic glycopolymers for RNA interference in ticks Stockmal, Kelli; kelli.stockmal@usm.edu University of Southern Mississippi
2:50	10	3433840	Thermodynamic and kinetics study of the effects of amphiphilicity of photosensitizers in photodynamic therapy (PDT) Gupta, Anju; Poornima Kalyanram; anjurgupta@gmail.com; pk2544@rit.edu University of Toledo
3:00	10	3418333	Synthesis of gold nanorods with small thiolated molecules Requejo Roque, Katherine; kirequejo@gmail.com

			Rice University; UC Davis
3:10	10	3433700	Covalent organic framework (COF) association with 2-D nanomaterials Beagle, Lucas; lbeagle1@udayton.edu AFRL; UES, Inc.
3:20	10	3432956	Investigating the interparticle spatial properties and phase behavior of DNA-mediated nanoparticle assemblies with incorporated temperature sensitive co-polymers Nugaduwa Vithanage, Buddhini; bcnugadu@syr.edu Syracuse University
3:30	10	3431327	Examining the role of chloride surface ligands on dislocation removal dynamics in imperfectly attached semiconductor nanocrystals McKeown-Green, Amy; amy_mckeown-green@berkeley.edu University of California, Berkeley
3:40	10	3429317	Stabilities of adsorption structures of 2,4,6-tris(4-bromophenyl)-1,3,5-triazine on Au(111) surface Okada, Arifumi; aokada@kit.ac.jp Kyoto Institute of Technology
3:50			Session End
Posters - No Oral Pitch			
		3422715	Production of fibronectin sensitizes EGFR-TKI resistant lung cancers to silver nanoparticle induced endoplasmic reticulum stress Rohde, Monica; mmcmahon@wakehealth.edu Wake Forest School of Medicine
		3422737	Identification of molecular signatures predictive of sensitivity of breast cancer cells to silver nanoparticles Snyder, Christina; cmsnyder@wakehealth.edu Wake Forest School of Medicine
		3433883	Formation of nano-scale interface by networking of amyloidogenic peptides Ichiki, Akane; ai7@geneseo.edu The State University of New York Geneseo College
		3429880	Automated tip conditioning for scanning tunneling spectroscopy Wang, Shenkai; shenkaiwang@berkeley.edu University of California Berkeley
		3431331	Atomic scale observations of electrocatalytic process on porphyrin-modified Au(111) electrode Kim, Yongman; yongman@kaist.ac.kr KAIST; IBS
		3431335	Revealing adsorbate intermediates and superstructures of CO ₂ overlayers on TiO ₂ (110) surface under ambient pressure Kim, Youngjae; youngjae21@kaist.ac.kr

		Korea Advanced Institute of Science and Technology(KAIST); Institute of Basic Science (IBS)	
Monday AM Nanomaterials #1 Presider: James McBride, james.r.mcbride@Vanderbilt.Edu https://vanderbilt.zoom.us/j/93139323330?pwd=ZDdrMVdnazRQNU5nemYxbE11OFQ0dz09			
5:00	20	3424249	Strategies for enhancing the photoluminescence of CdSe magic-sized clusters Pun, Andrew; andrewbpun@gmail.com ETH Zürich
5:20	20	3432566	Purification and sorting of halloysite nanotubes into homogeneous, agglomeration-free fractions by polydopamine functionalization Tas, Cüneyt Erdinc; cuneyterdinc@sabanciuniv.edu Sabanci University; Sabanci University
5:40	20	3429954	How magic-sized clusters grow Mule, Aniket; aniketsmule@gmail.com ETH Zurich
6:00	20	3433568	Energy and charge transfer across the interface of nanoscale heterojunctions of organic semiconductors and CsPbX ₃ perovskite quantum dots Wang, Chen; chen.wang@qc.cuny.edu Queens College, CUNY
6:20	20	3433493	Mechanisms of cellulose nanocrystals in stabilizing iron nanoparticles de Lannoy, Charles-Francois; delannoy@mcmaster.ca McMaster University
6:40	20	3412035	Photovoltaic and photoconductive action due to PbS quantum dots on graphene/SiC Schottky diodes from NIR to UV Kelley, Mathew; kelleym145@gmail.com University of South Carolina
7:00	20	3430278	Templated crystallization: An emerging nanofabrication strategy for naturally derived biopolymers Sun, Hui; huisun@mit.edu Massachusetts Institute of Technology
7:20	20	3421513	Cross-linking approach to stabilizing stimuli-responsive colloidal crystals engineered with DNA Lee, Seungkyu; skeleychem@gmail.com Northwestern University
7:40	20	3416176	Synthesis of monodisperse intermetallic nanoparticles via size refocusing Ashberry, Hannah; hmashberry@gmail.com Indiana University

8:00			Session End
<p>Monday AM Frontiers and Challenges in Nanoparticle-Mediated Chemical Transformations #1 Presiders: Yadong Yin, yadong.yin@ucr.edu; Yugang Sun, ygsun@temple.edu https://ucr.zoom.us/j/93310215279</p>			
5:00	25	3411175	Polyhedral nanoparticles as nanoscale catalytic model surfaces Personick, Michelle; mpersonick@wesleyan.edu Wesleyan University
5:25	25	3427604	Transforming noble-metal nanocrystals into complex nanostructures through facet-selective etching and deposition Qin, Dong; dong.qin@mse.gatech.edu Georgia Institute of Technology
5:50	25	3428370	Intermetallic nanoparticles: synthesis and enhanced chemo- and stereo-selectivity in chemical transformations Huang, Wenyu; whuang@iastate.edu Iowa State University
6:15	25	3430734	Nanoscale crystal phase and structure behaviors and their effects on catalysis Yang, Hong; hy66@illinois.edu University of Illinois
6:40	25	3430948	Investigation into spinel nanoparticles in photothermal-assisted oxygen evolution reaction Lin, Zhiqun; zhiqun.lin@mse.gatech.edu Georgia Institute of Technology
7:05	25	3432032	Visible light range promotion of photocatalytic activity through the synthesis of composite nanoparticles Basim, G. Bahar; gbbasim@ufl.edu University of Florida
7:30	25	3433687	Interfaces between the encapsulated catalysts and metal-organic frameworks Tsung, Chia-Kuang; frank.tsung@bc.edu Boston College
7:55			Session End
<p>Monday AM Basic Research in Colloids, Surfactants and Interfaces #1 Presider: Saad Khan, khan@ncsu.edu https://ncsu.zoom.us/j/91313622942?pwd=VXZEZjJVVdKyMSs5R2lZYWlvdDd3dz09</p>			

5:00	25	3395944	Structure, hydration and thermodynamic behavior of poly(styrene)-block-poly(methacrylic acid) polyelectrolyte-neutral diblock copolymer micellization in aqueous solution by explicit atomistic MD simulations Natarajan, Upendra; unatarajan@iitm.ac.in Indian Institute of Technology (IIT)
5:25	25	3428865	Dynamic and complex multi-compartment and internally ordered emulsions Wang, Xin; xw543@cornell.edu Cornell University
5:50	25	3432665	Towards total internal reflection microscopy of non-spherical particles Dominguez Medina, Sergio; sxd703@case.edu Case Western Reserve University
6:15	25	3433387	Rheology and microstructure of nanodiamonds-stabilized pickering emulsions Khan, Saad; khan@eos.ncsu.edu North Carolina State University
6:40	25	3433418	Probing accelerated salt-induced relaxation dynamics of Laponite suspensions using X-ray photon correlation spectroscopy measurements and molecular dynamics simulations Mohammed, Sohaib Gadikota, Greeshma; sm2793@cornell.edu ge2131@caa.columbia.edu Cornell University Cornell University
7:05	25	3425513	Wormlike micelles in oxidizer brine solutions for high temperature reservoir application Hull, Katherine; katherine.l.hull@gmail.com Aramco Research Center-Houston
7:30	25	3406124	Reversible electrochemical gelation of metal chalcogenide quantum dots Luo, Long; long.luo@wayne.edu Wayne State University
7:55			Session End
<p>Monday PM Nanomaterials #2 Presider: Jennifer A. Hollingsworth, jenn@lanl.gov https://vanderbilt.zoom.us/j/96931042087?pwd=RzdLMTB6TXp4czRmdS8wai9yVWpuUT09</p>			
3:00	30	3432081	Order and transport in 3D epitaxially-connected quantum dot superlattices Law, Matt; lawm@uci.edu University of California, Irvine
3:30	30	3430959	Microwave assisted synthesis of doped and alloyed germanium nanoparticles Kauzlarich, Susan; smkauzlarich@ucdavis.edu University California Davis

4:00	30	3431372	Engineering upconverting nanoparticles for higher quantum yields than bulk materials Cohen, Bruce; becohen@lbl.gov LBNL
4:30	30	3429179	In-situ PDF/DRIFTS study of nanoparticle formation in zeolites Nenoff, Tina; tmnenof@sandia.gov Sandia National Laboratories
5:00	30	3431309	3D atomic structures of colloidal nanoparticles by “one-particle Brownian reconstruction” based on liquid phase TEM Park, Jungwon; jungwonpark@snu.ac.kr Seoul National University
5:30	20	3432138	Cryogenic correlative single-particle photoluminescence spectroscopy and electron tomography of core-shell quantum dots Perez, Davis; davisdp97@gmail.com Stanford
5:50	20	3430905	Direct imaging and interaction spectroscopy of atomic-scale ripples on MoS2 Baykara, Mehmet; mehmet.baykara@ucmerced.edu University of California, Merced
6:10	20	3428668	Probing multi-excitonic hole transfer dynamics in surface-functionalized quantum dots with ultrafast transient absorption spectroscopy Yan, Chang; yanchang0705@gmail.com UC Berkeley; Lawrence Berkeley National Laboratory
6:30			Session End
<p>Monday PM</p> <p>Frontiers and Challenges in Nanoparticle-Mediated Chemical Transformations #2</p> <p>Presiders: Jie He, jie.he@uconn.edu; Ben Liu, ben.liu@njnu.edu.cn https://ucr.zoom.us/j/93310215279</p>			
3:00	25	3432166	Effect of Pd isolation on the reduction of O2 to H2O2 over PdAu bimetallic nanoparticles Flaherty, David; dwflhrt@illinois.edu University of Illinois
3:25	25	3424560	Controlling catalysis at oil-water interfaces with functionalized nanoparticles Medlin, James; will.medlin@colorado.edu University of Colorado
3:50	25	3403205	Synthesis of doped and undoped metal halide perovskite magic sized clusters using molecular ligands; Zhang, Jin; zhang@ucsc.edu Univ of California

4:15	25	3420242	Active surfaces for electrocatalytic CO ₂ coupling through evolution of copper nanoparticles Yang, Peidong; p_yang@berkeley.edu Lawrence Berkeley National Lab; University of California
4:40	25	3430204	Chalcogenide tetrahedral cluster based framework materials for catalytic applications Feng, Pingyun; pingyun.feng@ucr.edu University of California at Riverside
5:05	25	3426872	Optical control of energetically-unfavorable phase transformation mechanisms with plasmonics Sytwu, Katherine; ksytwu@stanford.edu Stanford University
5:30	25	3430780	Carbon doping switching on the hydrogen adsorption activity of NiO for hydrogen evolution reaction Li, Yat; yatli@ucsc.edu University of California, Santa Cruz
5:55	25	3430461	Interface control of hierarchically structured solid materials during phase transition Zheng, Haoquan; zhenghaoquan@snnu.edu.cn Shaanxi Normal University
6:20			Session End

Monday PM

Basic Research in Colloids, Surfactants and Interfaces #2

Presider: Reza Foudazi, rfoudazi@nmsu.edu

<https://nmsu.zoom.us/j/92749450647>

3:00	25	3432676	Scaling nanoparticle hydrophobicity dictates interaction mechanism with supported lipid bilayers Lochbaum, Christian; Lochbaum@wisc.edu Univ of Wisconsin
3:25	25	3412355	Molecular simulation of surfactant deposition on glass surface Yu, Decai; dyu@dow.com Dow
3:50	25	3432222	Adsorption and net structure of nonionic polymer-surfactant complexes at the oil/water interface as affected by surfactant hydrophobic and electrostatic properties Altman, Rebecca; raltman5683@gmail.com University of Oregon
4:15	25	3430059	Divalent ions enhance anionic polymer adsorption on montmorillonite and the effect is salinity dependent Sun, Wenyuan; wenyuan3@ualberta.ca University of Alberta
4:40	25	3400785	Thermodynamic investigation of the reaction of metal halide salts with indium phosphide quantum dots and the role that inter-ligand interactions play

			Calvin, Jason; jasonjcalvin@berkeley.edu University of California, Berkeley
5:05	25	3430759	Foam-templated macroporous polymers Foudazi, Reza; rfoudazi@nmsu.edu New Mexico State University
5:30	25	3416375	Characterization of microemulsions containing large amount of deep eutectic solvent as a potential transdermal carrier of resveratrol Sakuragi, Mina; d08b0101@nano.sojo-u.ac.jp Sojo university
5:55			Session End
<p>Tuesday AM Nanomaterials #3 Presider: James McBride, james.r.mcbride@Vanderbilt.Edu https://vanderbilt.zoom.us/j/94521185882?pwd=ZlFYZjNIIdkt0RFdXY2tsQkRYczFtZz09</p>			
5:00	20	3425442	Metal-tipped semiconductor tetrapods: A modular construct for solar energy conversion and fuel generation Pavlopoulos, Nick; nicholasp@technion.ac.il Technion - Israel Institute of Technology; University of Arizona
5:20	20	3430572	Entropic mechanisms that bundle ultrathin gold nanowires Bettscheider, Simon; simon.bettscheider@leibniz-inm.de INM - Leibniz Institute for New Materials; Saarland University
5:40	20	3431692	Phenomenology of structural symmetry breaking and fast chemical diffusion in the lead-cadmium sulfide cation exchange system Nelson, Andrew; awn32@cornell.edu Cornell University
6:00	20	3433927	Direct synthesis of gold nanorods with ultra-narrow size distribution Chen, Gang; gang.chen@ucf.edu University of Central Florida
6:20	20	3431931	Photomechanical fatigue of nano- and macro-dimensional organic crystalline solids using atomic force microscopy Lansakara, Thiranjeeva; thiranjee-lansakaramudiyanselage@uiowa.edu The University of Iowa
6:40	20	3424458	Smart release-and-kill supramolecular approach for narrow delivery of broad-spectrum antibiotics to Staphylococcus aureus Mohammed Koyasseril Yehiya; Thameez, thameez.ky@gmail.com University of Massachusetts Amherst

7:00	20	3430455	Antioxidant enzyme encapsulation inside archaeal Dps nanocage Waghvani, Hitesh Kumar; hwaghwan@iu.edu Indiana University
7:20	20	3433808	Theranostic biliverdin nanoparticles for multimodal imaging and cancer therapy Fathi, Parinaz; pfathi2@illinois.edu University of Illinois
7:40	20	3416229	Novel heterostructure materials for combating superbugs Pramanik, Avijit; praavijit@gmail.com Jackson State University
8:00			Session End
<p>Tuesday AM Frontiers and Challenges in Nanoparticle-Mediated Chemical Transformations #3 Presiders: Ou Chen, ouchen@brown.edu; Haoquan Zheng, zhenghaoquan@snnu.edu.cn https://brown.zoom.us/j/95730976228</p>			
5:00	25	3431639	Nanonucleases Scrimin, Paolo; paolo.scrimin@unipd.it University of Padova
5:25	25	3402546	Porous nano-size metal oxides for catalytic oxidations and reductions Suib, Steven; Steven.Suib@uconn.edu Univ of Connecticut
5:50	25	3430185	Controlling multicomponent and multiscale cooperation at nanocrystals surfaces for enhanced electrocatalysis Zhang, Sen; sz3t@virginia.edu Univ of Virginia
6:15	25	3433308	Electrochemical oxygen-atom transfer reactions at nanoscale metal oxides Manthiram, Karthish; karthish@gmail.com Massachusetts Institute of Technology
6:40	25	3429097	Sensitizing metal phosphide electrocatalysts for visible-light driven water splitting Brock, Stephanie; sbrock@chem.wayne.edu Wayne State University
7:05	25	3429193	Optical microresonator spectrometers for single nanoparticle chemical dynamics Hogan, Levi; lhogan2@wisc.edu University of Wisconsin Madison
7:30	25	3430226	Emergence of complexity in hierarchically organized chiral particles Kotov, Nicholas; kotov@umich.edu University of Michigan

7:55			Session End
Tuesday AM			
Applications of Colloids in Biology/Medicine #1			
Presiders: Wolfgang Parak, wolfgang.parak@uni-hamburg.de ; Neus Feliu, nfeliu@physnet.uni-hamburg.de ; Beatriz Pelaz, beatriz.pelaz@usc.es https://uni-hamburg.zoom.us/j/92064014026			
5:00	25	3411176	Unraveling the dramatic conformational changes on phase behavior of PNIPAM by biological stimuli- the nature of interactions between polymer - protein Kumar, Krishan; ks90859@gmail.com University of Delhi
5:25	25	3405756	Self-assembled protein nanosheets for the expansion of stem cells at liquid-liquid interfaces Gautrot, Julien; j.gautrot@qmul.ac.uk Queen Mary University of London
5:50	25	3420989	Redox-responsive hyaluronic acid-based nanogels for the topical delivery of visual chromophore to retinal photoreceptors Laradji, Amine; alaradji@wustl.edu Washington University School of Medicine in St. Louis; Department of Veterans Affairs, St. Louis Medical Center
6:15	25	3423408	Investigating the role of surface chemistry in bacterial biofilm penetration via a layer-by-layer nanoparticle library Deiss-Yehiely, Elad; eladdy@mit.edu Massachusetts Institute of Technology
6:40	25	3428096	Synthetic mRNA nanoparticle-mediated tumor suppressor restoration: Applications in cancer biology and treatment Shi, Jinjun; jshi@bwh.harvard.edu Harvard Medical School, Brigham and Women's Hospital
7:05	25	3432739	Naturally active antimicrobial solutions through nanoencapsulation methods Basim, G. Bahar; gbbasim@ufl.edu University of Florida
7:30	25	3428628	Ceria-based nanotheranostic agents for rheumatoid arthritis treatment Kim, Taeho; taehokim13@gmail.com Michigan State University
7:55			Session End
Tuesday AM			

Biomaterials and Biointerfaces #1Presider: Nick Abbott, nla34@cornell.edu<https://cornell.zoom.us/j/94743113198?pwd=UIBmSU5NRjBsTERnTEhKeHZ6MWUzQT09>

5:00	25	3425394	Interacting macromolecules create a distinct chemical environment favorable for calcite nucleation Krounbi, Leilah; lrk73@cornell.edu Weizmann Institute of Science
5:25	25	3403774	Measuring interaction strength and mechanical anisotropy of protein nanofibrils in spider silk ribbons Perera, Dinidu; onperera@email.wm.edu William & Mary
5:50	25	3414160	C-terminus selective single-point immobilization of native peptides to surfaces Xie, Tian; tx19@georgetown.edu University of Maryland - Institute for Bioscience and Biotechnology Research; NIST
6:15	25	3414636	Functionalization of silicon surface for receptor integration towards fieldable biosensing: Optimization and characterization Liu, Sanchao; sanchaol@hotmail.com CCDC Army Research Laboratory
6:40	25	3432371	Dynamic and reversible shape-response of red blood cells interfaced with synthetic liquid crystals Abbott, Nicholas; nabbott@cornell.edu Cornell University
7:05	25	3429131	Design of spherical nucleic acids as vaccines against triple negative breast cancer Callmann, Cassandra; ccallmann@northwestern.edu Northwestern University
7:30			Session End

Tuesday PM

Applications of Colloids in Biology/Medicine #2Presider: Marc Ilies, mailies@temple.edu<https://temple.zoom.us/j/92781707971>

3:00	25	3399352	Treating cystic fibrosis lung infections with bacteria-inspired nanoscale drug delivery systems Finbloom, Joel; joel.finbloom@gmail.com UCSF
3:25	25	3420295	DNA library evolution of carbon nanotube molecular recognition to neurotransmitter serotonin Jeong, Sanghwa; rmanasit@postech.ac.kr UC Berkeley

3:50	25	3432056	Interfacial additives increase the thermal and mechanical stability of aqueous emulsion droplets for high-throughput microfluidic single-cell influenza studies Bikos, Dimitri; dimitri.bikos@montana.edu Montana State University; Montana State University
4:15	25	3425102	Revisiting the reliability of dynasore as a pharmacological inhibitor to evaluate the endocytic pathways of nanomaterials Jiang, Ziwen; jiangziwen@live.cn University of California, San Francisco; University of Massachusetts Amherst
4:40	25	3433433	Gated delivery of veratridine by nanoassemblies for treatment of colorectal cancer Wellala Wijewantha, Nisitha; nisitha.wellalawijew@usd.edu University of South Dakota
5:05			Session End
<p>Tuesday PM Biomaterials and Biointerfaces #2 Presider: Matthew Webber, mwebber@nd.edu https://notredame.zoom.us/j/98245710172?pwd=UnZiYjAyUTYzbkxndlBOYmNoUGIzUT09</p>			
3:00	25	3430231	Enantioselective catalysis with chiral inorganic nanostructures Kotov, Nicholas; kotov@umich.edu University of Michigan
3:25	25	3420139	Dynamic hydrogel biomaterials via supramolecular crosslinks Webber, Matthew; mwebber@nd.edu University of Notre Dame
3:50	25	3409219	Evolution of near-infrared oxytocin nanosensors Navarro, Nicole; nicole.ann.navarro@gmail.com UC Berkeley
4:15	25	3433502	Peptoid microsphere coatings: Effects of helicity, temperature, pH, and ionic strength Roberts, Jesse; Jlr025@uark.edu University of Arkansas
4:40	25	3420171	Understanding corona exchange dynamics on carbon nanotubes with multiplexed fluorescence monitoring Pinals, Rebecca; rebecca_pinals@berkeley.edu University of California, Berkeley
5:05	25	3421124	Surface functionalization of carbon nanotubes in biological environments Jackson, Christopher; ctjackson@me.com UC Berkeley

5:30	25	3420950	Polymersome-amplified fluorescence immunoassay (PAFIA): Fluorescence detection platform of Alzheimer's disease Lee, Sojeong; lysosome78@yonsei.ac.kr Yonsei University
5:55			Session End
<p>Wednesday AM Nanomaterials #4 Presider; Jennifer A. Hollingsworth, jenn@lanl.gov https://vanderbilt.zoom.us/j/93898075183?pwd=MklxdTN0eGduRVFDU0VPdHBybF6UT09</p>			
5:00	20	3429742	Delivery of topically applied hyaluronic acid-coated gold nanoparticles to the retina Karakocak, Bedia; bbkarakocak@gmail.com Washington University in St. Louis School of Medicine; U.S. Department of Veterans Affairs
5:20	20	3429688	Supramolecular nanohelices for drug delivery, ion-transport, and sensing Matson, John; jbmatson@gmail.com Virginia Tech
5:40	20	3433868	Label-free pathogen detection based on Yttrium doped carbon nanoparticles up to single-cell resolution Alafeef, Maha; alafeef2@illinois.edu University of Illinois at Urbana-Champaign
6:00	20	3431708	Dendrimer nanoreactors as emerging nanotherapeutics for treating reactive organophosphate exposure Choi, Seok-Ki; skchoi@med.umich.edu University of Michigan Medical School
6:20	30	3431232	Peptide engineering for targeted, intracellular delivery of siRNA and proteins Sullivan, Millicent; msullivan@udel.edu University of Delaware
6:50	20	3416958	Anisotropic thermal responses to laser-induced heating in colloidal two-dimensional nanomaterials Brumberg, Alexandra; brumberg@u.northwestern.edu Northwestern University
7:10	30	3423348	Nanoscale photoinduced charge transfer with individual quantum dots: Tunability through synthesis, interface design, and interaction with charge traps Mircea Cotlet; cotlet@bnl.gov Brookhaven National Laboratory
7:40	30	3433346	Trapped-hole diffusion in semiconductor nanocrystals Dukovic, Gordana; gordana.dukovic@colorado.edu University of Colorado Boulder

8:10			Session End
<p>Wednesday AM Applications of Colloids in Biology/Medicine #3 Presiders: Wolfgang Parak, wolfgang.parak@uni-hamburg.de; Neus Feliu, nfeliu@physnet.uni-hamburg.de; Beatriz Pelaz, beatriz.pelaz@usc.es https://uni-hamburg.zoom.us/j/99910876706</p>			
5:00	25	3429390	One-pot synthesis of biocompatible, water-stable, upconverting NaYF ₄ : Yb ³⁺ /Er ³⁺ nanoparticles Alonso de Castro, Silvia; silviaalonsodc@gmail.com Sorbonne Université, Laboratoire de Chimie de la Matière Condensée de Paris, (Sorbonne Université, UMR 7574, Paris, France
5:25	25	3402878	Silver-chalcogenide nanoparticles as contrast agents for breast cancer screening Cormode, David; davidcormode@gmail.com University of Pennsylvania
5:50	25	3433899	Tuning the properties of colloidal magnetic metal oxide particles for remote thermometry on the nanoscale Biacchi, Adam; adam.biacchi@nist.gov National Institute of Standards and Technology (NIST)
6:15	25	3433240	Modulating nanoparticle size to understand factors affecting hemostatic efficacy and maximize survival Hong, Celestine; chjh@mit.edu Massachusetts Institute of Technology; MIT
6:40	25	3430754	nanoPRISM: Leveraging high throughput screening to understand targeted nanoparticle delivery Boehnke, Natalie; nboehnke@mit.edu MIT
7:05	25	3430242	Biofilm regulation by biomimetic nanoparticles Kotov, Nicholas; kotov@umich.edu University of Michigan
7:30			Session End
<p>Wednesday AM Biomaterials and Biointerfaces #3 Presider: Ariel Furst, afurst@mit.edu https://mit.zoom.us/j/97255404024?pwd=MFZQdEhzeDZqRDY3MGwzNFVoTEJGUT09</p>			
5:00	25	3413109	Impact of nanostructured surfaces on the aggregation of amyloidogenic peptides John, Torsten; torsten.john@studserv.uni-leipzig.de Monash University; Leibniz Institute of Surface Engineering (IOM); Leipzig University

5:25	25	3425493	Tuning the attachment of living cells to electroactive surfaces using DNA Furst, Ariel; afurst@mit.edu Massachusetts Institute of Technology
5:50	25	3429908	Supramolecular synthesis of long repetitive polypeptides Bermudez, Harry; bermudez@polysci.umass.edu University of Massachusetts
6:15	25	3430283	Precision delivery of multi-scale payloads to tissue-specific targets in plants Cao, Yunteng; ycao@mit.edu Massachusetts Institute of Technology
6:40	25	3430993	Effect of amino acid substitutions on the phase separation of resilin-like polypeptides: Applications in microstructured hydrogels Garcia, Cristobal; cristoga@udel.edu University of Delaware
7:05	25	3432131	Biocompatibility control on titanium-based implants through chemical mechanical nano-structuring Basim, G. Bahar; gbbasim@ufl.edu University of Florida
7:30	25	3429132	Controlling surfactant location to dictate emulsion electrospun fiber morphology and surface properties for tissue engineering applications Johnson, Pamela; pamelajohnson@ku.edu University of Kansas
7:55			Session End
<p>Wednesday PM Surface Chemistry #1 Presider: Steven Tait, tait@indiana.edu https://iu.zoom.us/j/94028525554</p>			
3:00	25	3432779	Solution-mediated annealing pathways are critical for ordering in supramolecular assemblies of complex macrocycles at surfaces Tait, Steven; tait@indiana.edu Indiana University
3:25	25	3421586	Characterization of SiGe(001) thermal oxidation using ambient pressure X-ray photoelectron spectroscopy Herman, Gregory; greg.herman@oregonstate.edu Oregon State University
3:50	25	3430840	Reactive oxygen species storage and surface reaction mechanisms in atomic layer deposition of Fe ₂ O ₃ Schneider, Joel; joelinia@gmail.com Stanford University

4:15	25	3430124	Revealing surface chemical reaction by detecting hot electron flux generated in solid-gas and solid-liquid interfaces Lee, Si Woo; siwoolee@kaist.ac.kr Korea Advanced Institute of Science and Technology (KAIST); Institute for Basic Science (IBS)
4:40	25	3430532	Achieving anti-sintering of platinum nanoparticles by efficient temperature field regulation Wang, Shuting; wangshuting2017@gmail.com China University of Petroleum (Beijing)
5:05			Session End
<p>Wednesday PM</p> <p>Bottom-up Development of Formulations for Delivery of Nucleic Acids and Proteins #1</p> <p>Presider: Kazuo Sakurai, sakurai@kitakyu-u.ac.jp https://temple.zoom.us/j/94734126718</p>			
3:00	30	3428234	Bioresponsive lipid-polymer hybrid nanoplatform for systemic siRNA delivery to solid tumors and atherosclerotic plaques Shi, Jinjun; jshi@bwh.harvard.edu Harvard Medical School, Brigham and Women's Hospital
3:30	30	3430068	Synthetic mRNA nanocarriers for the in situ programming of disease-specific immune cells Stephan, Matthias; mstephan@fredhutch.org Fred Hutchinson Cancer Research Center
4:00	30	3432900	Designing HDL mimetic nanoparticles for in vivo delivery Fischer, Nicholas; fischer29@llnl.gov Lawrence Livermore National Laboratory
4:30	30	3431469	Enzymatic labeling of a protein with lipopeptides for albumin interaction Takahara, Mari; takahara@kct.ac.jp National Institute of Technology, Kitakyushu College
5:00	30	3433281	DNA-templated complexation of schizophyllan/poly(dA) Sumiya, Kazuki; a9mab013@eng.kitakyu-u.ac.jp U of Kitakyushu Dept of Chem
5:30	30	3429387	Furry nanoparticles: Synthesis and characterization of nanoemulsion-mediated core crosslinked nanoparticles and their robust stability in vivo Fujii, Shota; s-fujii@kitakyu-u.ac.jp University of Kitakyushu
6:00			Session End

Thursday AM

Surface Chemistry #2

Presider: Wilfred T Tysoe, wtt@uwm.edu

<https://us02web.zoom.us/j/86192148905>

5:00	25	3435999	Surface-bound and volatile Mo oxides produced during oxidation of single microscale 2H MoS ₂ flakes in air and high relative humidity Szozkiewicz, Robert; rszozkiewicz@chem.uw.edu.pl University of Warsaw
5:25	25	3425681	Bistable room temperature single dipole switching in a molecular monolayer Mertens, Stijn; stmerten@gmail.com Lancaster University; KU Leuven
5:50	25	3428579	Interfacial states, energetics, and atmospheric stability of large-grain antiferroelectric Cs ₂ TiBr ₆ Mendes, Jocelyn; jlmendes@wpi.edu Worcester Polytechnic Institute
6:15	25	3430147	Morphology-induced ordering of small molecules on hydrophobic self-assembled n-alkanethiols Ghosh, Mithun; mghosh2@uh.edu University of Houston
6:40	25	3432225	Exploring enantioselective reactions on chirally modified surfaces in ultrahigh vacuum Tysoe, Wilfred; wtt@uwm.edu University of Wisconsin-Milwaukee
7:05			Session End

Thursday AM

Bottom-up Development of Formulations for Delivery of Nucleic Acids and Proteins #2

Presider: Marc Ilies, mailies@temple.edu

<https://temple.zoom.us/j/97487829567>

5:00	30	3435501	Hidden antibiotics in the human proteome de la Fuente, César; cfuente@penmedicine.upenn.edu University of Pennsylvania, Perelman School of Medicine
5:30	30	3432251	Dynamic constitutional frameworks – new tools for exploring biorecognition Barboiu, Mihai; mihail-dumitru.barboiu@univ-montp2.fr Institute European Membranes
6:00	30	3433168	Amphiphile design and formulation strategies for enhanced nucleic acid delivery Ilies, Marc; mailies@temple.edu Temple University

6:30	30	3428991	Avoiding the endosomal trap: Direct cytosolic delivery of proteins (and CRISPR!) through membrane fusion processes Rotello, Vincent; rotello@chem.umass.edu Univ of Massachusetts
7:00	30	3434215	Using bioorthogonal click chemistry to refill drug depots deep within the brain Brudno, Yevgeny; ybrudno@ncsu.edu UNC - Chapel Hill; NC State
7:30	30	3426590	Biocompatible nanocarriers, exosomes, for protein delivery to the brain Batrakova, Elena; batrakov@email.unc.edu University of North Carolina at Chapel Hill
8:00			Session End
<p>Thursday AM Basic Research in Colloids, Surfactants and Interfaces #3 Presider: Ulrich Scheler, scheler@ipfdd.de https://psu.zoom.us/j/6733962708</p>			
5:00	25	3432387	Effective charge, counterion condensation and ligand binding Scheler, Ulrich; scheler@ipfdd.de Leibniz-Institut für Polymerforschung Dresden
5:25	25	3404184	Force spectroscopy of graphene at the liquid–liquid interface Abeywickrama, Avishi; asabeywickrama@email.wm.edu William and Mary
5:50	25	3432347	Role of voids and porosity on the transport of macromolecules through 3D printed materials Zeigler, Angela; angela.m.zeigler3.civ@mail.mil U. S. Army Futures Command CCDC Chemical Biological Center
6:15	25	3412324	Engineering light absorption in plasmonic hybrid nanoparticles Estrada, Tatiana; testrad@g.clemson.edu Clemson University
6:40	25	3430648	Developing a mechanistic understanding of biofilm formation on aircraft materials Gomez-Bolivar, Jaime; j.gomez-bolivar@sheffield.ac.uk University of Sheffield
7:05	25	3409688	Investigating the in-vitro response of bacterial lipopolysaccharides de-acylation via enzymatically activated hydrolysis in water Pazol, Jessica; jessikapazol@yahoo.com Molecular Science Research Center (MSRC); University of Puerto Rico Rio Piedras

7:30	25	3431691	Self-assembly of bacterial quorum sensing signals in aqueous media: Integrated experimental and molecular dynamics study Gahan, Curran; cgahan@wisc.edu University of Wisconsin - Madison
7:55	25	3432396	Influence of proximal charged groups on the scaling of hydrophobic interaction strength with nonpolar domain area Abbott, Nicholas; nabbott@cornell.edu Cornell University
8:20			Session End