# Division of Colloid and Surface Chemistry (COLL) Technical Program

# American Chemical Society National Meeting March 20-24, 2022 San Diego, California and online

### **COLL Division Non-technical Events**

#### **COLL Division Business Meeting (Open)**

Sunday, March 20, 6:30 PM – 7:00 PM (just before the poster session) San Diego Convention Center, room 23C

#### **COLL Division Lunch**

Tuesday, March 22, 12:00 PM - 2:00 PM San Diego Convention Center, room 8
The lunch will begin with remarks and recognition of awardees and volunteers.

# **COLL Division Technical Program**

Technical sessions are listed in three types:

- **In-person**: speaker and audience are in-person, no online connection option. If speakers are not able to attend in person, they may pre-record their presentation for playback by session presider.
- Virtual: Speaker and audience are online.
- **Hybrid** (or "Broadcast"): An in-person room will be assigned in the convention center, but speakers and audience can also connect online and interact with the in-person attendees.

Note that <u>all presenters</u> (in-person or virtual) will be invited to upload their presentation to the "on-demand" presentation system.

Important: To connect to Virtual or Hybrid sessions, you must log in to the ACS online program using the same credentials with which you registered for the meeting. Links to virtual rooms will be available there. The most up-to-date and official program information is available in the online ACS program. This document is provided only as a convenience.

All times listed are Pacific Daylight Time (PDT, San Diego local time) (UTC/GMT –7 hours)

# Fall 2022 ACS Meeting will be in Chicago: Abstract deadline is March 29!

COLL Division Program Chair: Steven Tait, Indiana University, tait@indiana.edu

Date Time	Session type Presenter name	Symposium title Presentation title	Location Duration	Session ID Abstract ID
Sunday 3/20/2022	Oral - Hybrid	Surface Science Young Investigators  Material surface - analyte interactions with similar	Room 22 (SDCC)	COLL006A
8:00 AM	Chakraborty, Nirman	energy rates vary as quadratic function of topological polar surface area of analytes Adsorption of organophosphate nerve agent VX on the	20	3649859
8:20 AM	Bazargan, Gloria	(101) surface of anatase titanium dioxide Achieving the promise of efficient dropwise	20	3652111
8:40 AM	Antao, Dion	condensation	20	3652552
9:00 AM	Hidayat, Novianto	DFT study on the effects of vicinal edge and terrace sites on N2H4-OH coadsorption system: Ni(211) case Point defects at rutile TiO2: From minority to	15	3653387
9:15 AM	Mohrhusen, Lars	gamechangers in bifunctional oxide (photo-)catalysis First-principles design of a single-atom—alloy propane	15	3654309
9:30 AM	Hannagan, Ryan	dehydrogenation catalyst Investigation of (001), (010), and (100) surface	15	3658635
9:45 AM	Noel, Monique	termination and surface energies of the Zintl Ca5Ga2Sb6 Mapping ligand adsorption affinity and cooperativity in	15	3661385
10:40 AM	Ye, Rong (Rocky)	solution at the sub-particle resolution In situ scanning tunneling microscopy for the study of	20	3653238
11:00 AM	Wenzel, Sabine	model catalysts Copper single crystal electrocatalysts: Interfacial	20	3653381
11:20 AM	Auer, Andrea	structure and reactivity  Design of catalysts realized by materials theory and	20	3653561
11:40 AM	Li, Hao	machine learning	20	3655412
Sunday 3/20/2022	Oral - Hybrid	ACS Award in Surface Chemistry 2022: Symposium in honor of Miquel Salmeron	Room 22 (SDCC)	COLL009A
, ,		Well-defined mixed-oxide and metal-oxide interfaces	, ,	
2:00 PM	Zaera, Francisco	for catalysis using ALD  Mass-selected cluster for conversion of sustainable	30	3640224
2:30 PM	Chorkendorff, Ib	energy Characterization of the MnOx promoted silica	30	3656203
3:00 PM	Bell, Alexis	supported Co nanoparticles used for Fischer-Tropsch synthesis Single atom catalyst Pt1/ZnO for methanol partial	30	3656930
3:30 PM	Rahman, Talat	oxidation: Insights into reaction mechanisms from DFT and experiments Pt stepped surfaces under a pressure of CO: Adsorbed	30	3658801
4:00 PM	Sautet, Philippe	layer and surface restructuring	30	3661043
4:30 PM	Schloegl, Robert	Material science of interfacial catalysts Activation and conversion of CO2 to methanol on	30	3658169
5:00 PM	Rodriguez, Jose	inverse oxide/metal catalysts  Tuning the properties of copper catalysts based on	30	3653877
5:30 PM	Stacchiola, Dario	molecular in situ studies of model systems	30	3653504
Sunday 3/20/2022	Oral - Hybrid	Colloid, Nanomaterial, and Interface Chemistry Research at Primarily Undergraduate Institutions Modulation of livid surface interactions by group I	Room 23A (SDCC)	COLL010A
8:00 AM	Kett, Peter	Modulation of lipid-surface interactions by group I cations at different salt concentrations  Hybrid materials from the cure accelerated grafting	30	3642544
8:30 AM	Rider, David	thermal ring-opening polymerization of benzoxazines in blends with sulfonyl-ester materials	30	3662318

		Deren shall synthesis and anomalous sarbon baran		
	Labunsky, Daniel	Boron shell synthesis and anomalous carbon-boron bond formation on nanoscale diamond surfaces using		
9:00 AM	Wolcott, Abraham	trigonal boron compounds	20	3661306
3.00 AIVI	Wolcott, Abraham	Biofouling resistant polypyrrole films for biologically-	20	3001300
9:20 AM	Knepper, Allen	triggered dopant release	20	3655591
	еррел, ге	Understanding the impact of BHT inhibitor on the		555551
		microstructure of spun-cast nanoporous films of PMMA		
9:55 AM	Flagg, Sadie	exhibiting high surface areas	20	3648110
		Engineered carbon nanoparticle /chitosan composite		
		materials as multi-functional and tunable adsorbents		
10:15 AM	Bowman, Madelynn	for water purification	20	3661311
		Hybrid germania-silica colloids and their application as		
10:35 AM	Destino, Joel	3D-printed glass precursors	30	3644594
		Strategies for the preparation of functional materials		
11:05 AM	Mosby, Brian	from layered zirconium phosphates	30	3658719
Sunday		Colloidal Hybrid Materials Intended for Biological	Room 23B	
3/20/2022	Oral - Hybrid	Applications	(SDCC)	COLL025A
		Nanotransformation of marine derived-materials into		
8:20 AM	Ramon, Eva	added value ingredients for the cosmeceutical field	20	3653559
		Quantum dot complex of ZnS and Pd(II) complex for		
0.40 414	COCOL MADULUEVIA	selective detection of pyrophosphate anion with		
8:40 AM	GOGOI, MADHULEKHA	fluorescence quenching  Development of near-infrared fluorescent nanosensors	20	3655173
9:00 AM	Dewey, Hannah	for the detection of COVID-19 disinfectants	20	2646450
3.00 AIVI	Dewey, Haililan	Gold nanorod–melanin hybrids for enhanced and	20	3646459
		prolonged photoacoustic imaging in the near-infrared-II		
9:20 AM	Yim, Wonjun	window	20	3646794
9:40 AM	Feliu, Neus	Nanoparticles in biological environment		
	•		20	3655918
10:00 AM	Spanjers, järvi	Zwitterionic polymer-lipid hybrid vesicles	20	3649191
10:20 AM	Morena, Angela Gala	Phenolated-lignin nanoparticles as crosslinking agents in nanocomposite hydrogels for biomedical applications	20	3650830
10.20 AW	Morena, Angela Gala	Magnetically driven polymer/enzyme layer-by-layer	20	3030830
		coated bimetallic nanoparticles as a promising		
10:40 AM	Monreal, Marina	alternative to manage bacterial infections	20	3650907
201107		Development of self-assembled iron oxide nanochains	20	3030307
11:00 AM	Kim, Taeho	as sensitive magnetic particle imaging agents	20	3650987
	•	Transmembrane MUC18 targeted polydopamine		
		nanoparticles and a mild photothermal effect		
	Wang, Congzhou   Liu,	synergistically disrupt actin cytoskeleton and migration		
11:20 AM	Jinyuan	of cancer cells	20	3653036
		Antibody functionalized near-infrared emitting polymer		
		dots for super resolution imaging of membrane		
11:40 AM	Riahin, Connor	receptors in plant cells	20	3653824
Sunday		Colloidal Hybrid Materials Intended for Biological	Room 23A	
3/20/2022	Oral - Hybrid	Applications	(SDCC)	COLL025C
2.00.014	0 1 14 1	Synthesis of water soluble fluorinated gold		
2:00 PM	Carril, Monica	nanoparticles and in vivo 19F MRS/MRI	30	3646886
		Glycans coated nanoparticles as a biocompatible shield		
2:30 PM	Soliman, Mahmoud	to increase nanoparticles' colloidal stability and modulate their biological response	20	2652242
2.30 PIVI	Johnnan, Mahimbuu	Bioreceptors-conjugated catalytic nanoparticles for in	30	3652343
3:20 PM	Xia, Xiaohu	vitro diagnostics	20	3655952
3.2011	Maj Muoriu	Assembly and disassembly of Boron nanoparticles in	20	3033332
		potentiating anti-cancer treatment with minimal		
3:40 PM	Keng, Pei Yuin	toxicity	20	3655977
	<u>.</u>	•		

Sunday 3/20/2022	Oral - In-person	Nanomaterials	20BCD Theater 5 (SDCC)	COLL012B
5:15 PM	Stehle, Yijing	membrane: Effect of aluminum cation modification	Room	3651712
4:45 PM	Tribe, Lorena	freshwater coastal carbon dynamics  Dielectric and mechanical property of graphene oxide	30	3657030
4:15 PM	Groves, Michael	groups in physical hole defects of graphene: a computational study Computational studies of adsorption to surfaces in	30	3659058
3:55 PM	Wolcott, Abraham	coating with X-ray absorption spectroscopy Modification of acidic properties of OH-functional	20	3660224
3:20 PM	Dang, Quang Minh	nanoparticles Study of the molecular decoration and suppression of the diamond core-hole exciton by an ultrathin dielectric	20	3638910
2 20 214		computational modeling to assess halogen-bonding strength as a function of molecular structure and exploring halogen-bonding in molecular-detection		
2:50 PM	Niezgoda, Jeffrey	pursuit of new quantum Dot syntheses that utilize functionalized ligands Using NMR titrations, 19F–1H HOESY NMR, and DFT	30	3648159
2:20 PM	Hunter, Rebecca	nanofibrous materials for electrochemical sensing applications On-particle ligand modification: Lessons learned in the	30	3652634
2:00 PM	Devadas, Mary Sajini	anisotropic nanoparticles Electrospinning of conductive and biocompatible	20	3655583
Sunday 3/20/2022	Oral - In-person Aligholizadeh, Dariush	Colloid, Nanomaterial, and Interface Chemistry Research at Primarily Undergraduate Institutions Manipulation of the metal crystal lattice to synthesize	20BCD Theater 4 (SDCC)	COLL010B
4:50 PM	Chiaramonte, Francis	complex fluids/soft matter program	Room	3703725
4:30 PM	Savin, Kenneth	focused on soft matter and meta materials  Overview of the current and future NASA microgravity	20	3642213
3:50 PM	Chaikin, Paul	crystallization in microgravity on the international space station ISS national lab and in space production applications	40	3703722
3:10 PM	Bharti, Bhuvnesh	Dynamic and competitive interactions via the dual nature of ferrofluids  Recent experiments on hard sphere colloidal	20	3656832
2:50 PM	Lynch, Matthew	Measurements on the ISS to inspire and enable the creation of transformative products	20	3662412
2:10 PM	Meyer, Bill	Light microscopy module: A facility overview history and science	40	3703707
Sunday 3/20/2022	Oral - Hybrid	Perspective of Soft Matter Research in Space: Present & Future	Room 23B (SDCC)	COLL036A
5:40 PM	Lyons, Trevor	polyacrylamide and polystyrene nanocomposites and characterization as potential MRI contrast agents	20	3657142
5:20 PM	Ivanova, Kristina	Staphylococcus aureus infections and maintain microbiome balance  Versatile synthesis of paramagnetic metal-oxo cluster-	20	3656398
5:00 PM	Ivanova, Aleksandra	Nano-enabled hybrid materials for controlling bacterial infections and resistance development Engineering targeted nano-hybrids to treat	20	3656246
4:30 PM	Henriksen, Malou	Combining SERS with 3D matrixes to better understand cellular behaviour	30	3656271
4:00 PM	Reimhult, Erik	Lysosome-triggered, cholesterol-mopping nanoparticles for treatment of neurodegenerative diseases	30	3655375

		Ultrasound-assisted synthesis of farnesol nanoparticles		
2:00 PM	Ivanova, Aleksandra	for controlling microbial infections and resistance development	20	3650906
		Tuneable synthetic reduced graphene oxide scaffolds elicit high levels of three-dimensional glioblastoma		
2:20 PM	Brown, Chris	interconnectivity in vitro Nanoscale patterned 2-dimensional MoS2 bio-FET for	20	3656597
2.42.24	5 1 1	ultrasensitive, selective, and reliable biomolecular		
2:40 PM	Park, Heekyeong	detection	20	3659450
3:00 PM	Sultana, Nigar	Developing carbon nanotube-based pH sensor Nanosensor-based hafnium nanoparticles for the	20	3661433
3:20 PM	Alafeef, Maha	detection of SARS-CoV-2 with yoctomole sensitivity Colorimetric glucose monitoring using one-dimensional	20	3661878
4:00 PM	Chen, Gang	plasmonic gold nanoparticles Biomimetic SERS nanoparticles coated with red blood	20	3662114
	Srivastava, Indrajit	cell membranes with improved dispersibility for early		
4:20 PM	Jones, Jamie	disease detections	20	3662548
		Size-limited metal nanoparticles supported by porous		
		poly(arylene ether)s and single-walled carbon		
	Luo, Shao-Xiong	nanotubes (SWCNTs) as selective and robust hydrogen		
4:40 PM	Lennon	sensors	20	3651825
F.OO DN4	Cul Culcab	Understanding the interactions of functionalized carbon	20	2647222
5:00 PM	Gul, Gulsah	nanotubes with lipid bilayers General synthetic approach to nanocrystalline stannides	20	3647392
5:20 PM	Ivanov, Sergei	and antimonides of Cr-Co	20	3647133
		Encapsulation of perovskite nanocrystal solids using		3017233
5:40 PM	Bose, Riya	metal oxides: A closer look into optical properties	20	3640428
Sunday			Room 23C	
3/20/2022	Oral - In-person	Basic Research in Colloids, Surfactants and Interfaces Tuning the solvation of gold nanorods for Au-C	(SDCC)	COLL018B
3/20/2022 2:00 PM	Oral - In-person Park, Kyoungweon			COLL018B 3661644
		Tuning the solvation of gold nanorods for Au-C	(SDCC)	
2:00 PM	Park, Kyoungweon	Tuning the solvation of gold nanorods for Au-C functionalization Automated nuclear and electron-nuclear magnetic resonance relaxometry probes the dynamics of	(SDCC)	
		Tuning the solvation of gold nanorods for Au-C functionalization Automated nuclear and electron-nuclear magnetic resonance relaxometry probes the dynamics of confined water molecules	(SDCC)	
2:00 PM	Park, Kyoungweon	Tuning the solvation of gold nanorods for Au-C functionalization Automated nuclear and electron-nuclear magnetic resonance relaxometry probes the dynamics of confined water molecules Binding interactions at the bisphenol A (BPA) epoxy	(SDCC)	3661644
2:00 PM 2:20 PM	Park, Kyoungweon Franck, John	Tuning the solvation of gold nanorods for Au-C functionalization Automated nuclear and electron-nuclear magnetic resonance relaxometry probes the dynamics of confined water molecules Binding interactions at the bisphenol A (BPA) epoxy coating – metal oxide interface: An isothermal titration	(SDCC) 20 20	3661644 3662124
2:00 PM	Park, Kyoungweon	Tuning the solvation of gold nanorods for Au-C functionalization Automated nuclear and electron-nuclear magnetic resonance relaxometry probes the dynamics of confined water molecules Binding interactions at the bisphenol A (BPA) epoxy coating – metal oxide interface: An isothermal titration calorimetry study	(SDCC)	3661644
2:20 PM 2:20 PM 2:40 PM	Park, Kyoungweon Franck, John Jani, Pallav	Tuning the solvation of gold nanorods for Au-C functionalization Automated nuclear and electron-nuclear magnetic resonance relaxometry probes the dynamics of confined water molecules Binding interactions at the bisphenol A (BPA) epoxy coating – metal oxide interface: An isothermal titration calorimetry study Surface characterization of colloidal oxide nanoparticles	(SDCC) 20 20 20	3661644 3662124 3645016
2:00 PM 2:20 PM 2:40 PM 3:00 PM	Park, Kyoungweon  Franck, John  Jani, Pallav  Marchioro, Arianna	Tuning the solvation of gold nanorods for Au-C functionalization Automated nuclear and electron-nuclear magnetic resonance relaxometry probes the dynamics of confined water molecules Binding interactions at the bisphenol A (BPA) epoxy coating – metal oxide interface: An isothermal titration calorimetry study Surface characterization of colloidal oxide nanoparticles with second harmonic scattering: lon-specific effects	20 20 20 20 20	3661644 3662124 3645016 3649267
2:20 PM 2:20 PM 2:40 PM	Park, Kyoungweon Franck, John Jani, Pallav	Tuning the solvation of gold nanorods for Au-C functionalization Automated nuclear and electron-nuclear magnetic resonance relaxometry probes the dynamics of confined water molecules Binding interactions at the bisphenol A (BPA) epoxy coating – metal oxide interface: An isothermal titration calorimetry study Surface characterization of colloidal oxide nanoparticles with second harmonic scattering: Ion-specific effects Liquids reflectometer at spallation neutron source	(SDCC) 20 20 20	3661644 3662124 3645016
2:00 PM 2:20 PM 2:40 PM 3:00 PM	Park, Kyoungweon  Franck, John  Jani, Pallav  Marchioro, Arianna	Tuning the solvation of gold nanorods for Au-C functionalization Automated nuclear and electron-nuclear magnetic resonance relaxometry probes the dynamics of confined water molecules Binding interactions at the bisphenol A (BPA) epoxy coating – metal oxide interface: An isothermal titration calorimetry study Surface characterization of colloidal oxide nanoparticles with second harmonic scattering: lon-specific effects	20 20 20 20 20	3661644 3662124 3645016 3649267
2:20 PM 2:20 PM 2:40 PM 3:00 PM 3:20 PM	Park, Kyoungweon  Franck, John  Jani, Pallav  Marchioro, Arianna Wang, Hanyu	Tuning the solvation of gold nanorods for Au-C functionalization Automated nuclear and electron-nuclear magnetic resonance relaxometry probes the dynamics of confined water molecules Binding interactions at the bisphenol A (BPA) epoxy coating – metal oxide interface: An isothermal titration calorimetry study Surface characterization of colloidal oxide nanoparticles with second harmonic scattering: lon-specific effects Liquids reflectometer at spallation neutron source Using low-field NMR relaxation to optimise particulate	20 20 20 20 20 20 20	3661644 3662124 3645016 3649267 3647183
2:20 PM 2:20 PM 2:40 PM 3:00 PM 3:20 PM	Park, Kyoungweon  Franck, John  Jani, Pallav  Marchioro, Arianna Wang, Hanyu	Tuning the solvation of gold nanorods for Au-C functionalization Automated nuclear and electron-nuclear magnetic resonance relaxometry probes the dynamics of confined water molecules Binding interactions at the bisphenol A (BPA) epoxy coating – metal oxide interface: An isothermal titration calorimetry study Surface characterization of colloidal oxide nanoparticles with second harmonic scattering: Ion-specific effects Liquids reflectometer at spallation neutron source Using low-field NMR relaxation to optimise particulate dispersions of silica Two-stage deprotonation of polyoxometalates with lanthanide heteroatoms	20 20 20 20 20 20 20	3661644 3662124 3645016 3649267 3647183
2:00 PM 2:20 PM 2:40 PM 3:00 PM 3:20 PM 3:40 PM 4:00 PM	Park, Kyoungweon  Franck, John  Jani, Pallav  Marchioro, Arianna Wang, Hanyu  Fairhurst, David  Xu, Xiaohan	Tuning the solvation of gold nanorods for Au-C functionalization Automated nuclear and electron-nuclear magnetic resonance relaxometry probes the dynamics of confined water molecules Binding interactions at the bisphenol A (BPA) epoxy coating – metal oxide interface: An isothermal titration calorimetry study Surface characterization of colloidal oxide nanoparticles with second harmonic scattering: Ion-specific effects Liquids reflectometer at spallation neutron source Using low-field NMR relaxation to optimise particulate dispersions of silica Two-stage deprotonation of polyoxometalates with lanthanide heteroatoms Absolute size dependence of light-to-heat conversion	20 20 20 20 20 20 20 20	3661644 3662124 3645016 3649267 3647183 3645706 3656609
2:00 PM 2:20 PM 2:40 PM 3:00 PM 3:20 PM 3:40 PM 4:00 PM	Park, Kyoungweon  Franck, John  Jani, Pallav  Marchioro, Arianna Wang, Hanyu  Fairhurst, David  Xu, Xiaohan  Meyer, Sean	Tuning the solvation of gold nanorods for Au-C functionalization Automated nuclear and electron-nuclear magnetic resonance relaxometry probes the dynamics of confined water molecules Binding interactions at the bisphenol A (BPA) epoxy coating – metal oxide interface: An isothermal titration calorimetry study Surface characterization of colloidal oxide nanoparticles with second harmonic scattering: Ion-specific effects Liquids reflectometer at spallation neutron source Using low-field NMR relaxation to optimise particulate dispersions of silica Two-stage deprotonation of polyoxometalates with lanthanide heteroatoms Absolute size dependence of light-to-heat conversion by gold nanorods	20 20 20 20 20 20 20	3661644 3662124 3645016 3649267 3647183 3645706
2:00 PM 2:20 PM 2:40 PM 3:00 PM 3:20 PM 3:40 PM 4:00 PM	Park, Kyoungweon  Franck, John  Jani, Pallav  Marchioro, Arianna Wang, Hanyu  Fairhurst, David  Xu, Xiaohan	Tuning the solvation of gold nanorods for Au-C functionalization Automated nuclear and electron-nuclear magnetic resonance relaxometry probes the dynamics of confined water molecules Binding interactions at the bisphenol A (BPA) epoxy coating – metal oxide interface: An isothermal titration calorimetry study Surface characterization of colloidal oxide nanoparticles with second harmonic scattering: Ion-specific effects Liquids reflectometer at spallation neutron source Using low-field NMR relaxation to optimise particulate dispersions of silica Two-stage deprotonation of polyoxometalates with lanthanide heteroatoms Absolute size dependence of light-to-heat conversion	(SDCC) 20 20 20 20 20 20 20 20 20 20	3661644 3662124 3645016 3649267 3647183 3645706 3656609
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2:00 PM 2:20 PM 2:40 PM 3:00 PM 3:20 PM 4:00 PM 4:20 PM 4:40 PM	Park, Kyoungweon  Franck, John  Jani, Pallav  Marchioro, Arianna Wang, Hanyu  Fairhurst, David  Xu, Xiaohan  Meyer, Sean Singh, Karnika	Tuning the solvation of gold nanorods for Au-C functionalization Automated nuclear and electron-nuclear magnetic resonance relaxometry probes the dynamics of confined water molecules Binding interactions at the bisphenol A (BPA) epoxy coating – metal oxide interface: An isothermal titration calorimetry study Surface characterization of colloidal oxide nanoparticles with second harmonic scattering: Ion-specific effects Liquids reflectometer at spallation neutron source Using low-field NMR relaxation to optimise particulate dispersions of silica Two-stage deprotonation of polyoxometalates with lanthanide heteroatoms Absolute size dependence of light-to-heat conversion by gold nanorods Interaction of active colloids with passive tracers	20 20 20 20 20 20 20 Room 20BCD Theater 4	3661644 3662124 3645016 3649267 3647183 3645706 3656609 3656734 3642793
2:00 PM 2:20 PM 2:40 PM 3:00 PM 3:20 PM 4:00 PM 4:20 PM 4:40 PM	Park, Kyoungweon  Franck, John  Jani, Pallav  Marchioro, Arianna Wang, Hanyu  Fairhurst, David  Xu, Xiaohan  Meyer, Sean	Tuning the solvation of gold nanorods for Au-C functionalization Automated nuclear and electron-nuclear magnetic resonance relaxometry probes the dynamics of confined water molecules Binding interactions at the bisphenol A (BPA) epoxy coating — metal oxide interface: An isothermal titration calorimetry study Surface characterization of colloidal oxide nanoparticles with second harmonic scattering: Ion-specific effects Liquids reflectometer at spallation neutron source Using low-field NMR relaxation to optimise particulate dispersions of silica Two-stage deprotonation of polyoxometalates with lanthanide heteroatoms Absolute size dependence of light-to-heat conversion by gold nanorods Interaction of active colloids with passive tracers  Basic Research in Colloids, Surfactants and Interfaces	(SDCC) 20 20 20 20 20 Room 20BCD	3661644 3662124 3645016 3649267 3647183 3645706 3656609 3656734
2:20 PM 2:40 PM 3:00 PM 3:20 PM 3:40 PM 4:00 PM 4:20 PM 4:40 PM Sunday 3/20/2022	Park, Kyoungweon  Franck, John  Jani, Pallav  Marchioro, Arianna Wang, Hanyu  Fairhurst, David  Xu, Xiaohan  Meyer, Sean Singh, Karnika  Oral - In-person	Tuning the solvation of gold nanorods for Au-C functionalization Automated nuclear and electron-nuclear magnetic resonance relaxometry probes the dynamics of confined water molecules Binding interactions at the bisphenol A (BPA) epoxy coating – metal oxide interface: An isothermal titration calorimetry study Surface characterization of colloidal oxide nanoparticles with second harmonic scattering: lon-specific effects Liquids reflectometer at spallation neutron source Using low-field NMR relaxation to optimise particulate dispersions of silica Two-stage deprotonation of polyoxometalates with lanthanide heteroatoms Absolute size dependence of light-to-heat conversion by gold nanorods Interaction of active colloids with passive tracers  Basic Research in Colloids, Surfactants and Interfaces Investigating the interactions between poloxamer 188	20 20 20 20 20 20 Room 20BCD Theater 4 (SDCC)	3661644 3662124 3645016 3649267 3647183 3645706 3656609 3656734 3642793
2:00 PM 2:20 PM 2:40 PM 3:00 PM 3:20 PM 4:00 PM 4:20 PM 4:40 PM	Park, Kyoungweon  Franck, John  Jani, Pallav  Marchioro, Arianna Wang, Hanyu  Fairhurst, David  Xu, Xiaohan  Meyer, Sean Singh, Karnika	Tuning the solvation of gold nanorods for Au-C functionalization Automated nuclear and electron-nuclear magnetic resonance relaxometry probes the dynamics of confined water molecules Binding interactions at the bisphenol A (BPA) epoxy coating – metal oxide interface: An isothermal titration calorimetry study Surface characterization of colloidal oxide nanoparticles with second harmonic scattering: Ion-specific effects Liquids reflectometer at spallation neutron source Using low-field NMR relaxation to optimise particulate dispersions of silica Two-stage deprotonation of polyoxometalates with lanthanide heteroatoms Absolute size dependence of light-to-heat conversion by gold nanorods Interaction of active colloids with passive tracers  Basic Research in Colloids, Surfactants and Interfaces Investigating the interactions between poloxamer 188 and preservative molecules in protein formulations	20 20 20 20 20 20 20 Room 20BCD Theater 4	3661644 3662124 3645016 3649267 3647183 3645706 3656609 3656734 3642793
2:20 PM 2:40 PM 3:00 PM 3:20 PM 3:40 PM 4:00 PM 4:20 PM 4:40 PM Sunday 3/20/2022	Park, Kyoungweon  Franck, John  Jani, Pallav  Marchioro, Arianna Wang, Hanyu  Fairhurst, David  Xu, Xiaohan  Meyer, Sean Singh, Karnika  Oral - In-person	Tuning the solvation of gold nanorods for Au-C functionalization Automated nuclear and electron-nuclear magnetic resonance relaxometry probes the dynamics of confined water molecules Binding interactions at the bisphenol A (BPA) epoxy coating – metal oxide interface: An isothermal titration calorimetry study Surface characterization of colloidal oxide nanoparticles with second harmonic scattering: lon-specific effects Liquids reflectometer at spallation neutron source Using low-field NMR relaxation to optimise particulate dispersions of silica Two-stage deprotonation of polyoxometalates with lanthanide heteroatoms Absolute size dependence of light-to-heat conversion by gold nanorods Interaction of active colloids with passive tracers  Basic Research in Colloids, Surfactants and Interfaces Investigating the interactions between poloxamer 188	20 20 20 20 20 20 Room 20BCD Theater 4 (SDCC)	3661644 3662124 3645016 3649267 3647183 3645706 3656609 3656734 3642793
2:00 PM 2:20 PM 2:40 PM 3:00 PM 3:20 PM 3:40 PM 4:00 PM 4:20 PM 4:40 PM Sunday 3/20/2022 8:20 AM	Park, Kyoungweon  Franck, John  Jani, Pallav  Marchioro, Arianna Wang, Hanyu  Fairhurst, David  Xu, Xiaohan  Meyer, Sean Singh, Karnika  Oral - In-person  Ford, Rachel	Tuning the solvation of gold nanorods for Au-C functionalization Automated nuclear and electron-nuclear magnetic resonance relaxometry probes the dynamics of confined water molecules Binding interactions at the bisphenol A (BPA) epoxy coating – metal oxide interface: An isothermal titration calorimetry study Surface characterization of colloidal oxide nanoparticles with second harmonic scattering: lon-specific effects Liquids reflectometer at spallation neutron source Using low-field NMR relaxation to optimise particulate dispersions of silica Two-stage deprotonation of polyoxometalates with lanthanide heteroatoms Absolute size dependence of light-to-heat conversion by gold nanorods Interaction of active colloids with passive tracers  Basic Research in Colloids, Surfactants and Interfaces Investigating the interactions between poloxamer 188 and preservative molecules in protein formulations Chiral discrimination induced by non-covalent	20 20 20 20 20 Room 20BCD Theater 4 (SDCC) 20	3661644 3662124 3645016 3649267 3647183 3645706 3656609 3656734 3642793  COLL018D 3651111

		Extraction purification solf assembly and aggregation		
9:40 AM	Mallia, Ajay	Extraction, purification, self-assembly, and aggregation studies of cyclotides	20	3662236
31.37		Crowded phospholipid monolayers are fluid as	20	3002230
10:00 AM	Renggli, Damian	measured by interfacial rheology	20	3660352
		Vapor Mediation: A potential tool to control multiscale		
40.00.444		crystallization and bacterial aggregation in sessile bio-		
10:20 AM	Basu, Saptarshi	fluid droplet deposits	20	3657651
10:40 AM	Graham, Kristin	Polymerization of actin inside liquid-like protein droplets drives spontaneous actin bundling	20	3647830
10.40 AW	Granam, Kristin	SARS-CoV-2: Molecular interaction specifics viewed	20	3047830
11:00 AM	Uskokovic, Vuk	through the prism of nanotechnologies	20	3671813
			Room	
Sunday			20BCD Theater 5	
3/20/2022	Oral - In-person	Colloidal Nanoparticle Synthesis and Assembly	(SDCC)	COLL021A
8:00 AM	Kotov, Nicholas	Chiral nanostructures	30	3648524
		Variational autoencoders for information extraction		
		from high-resolution transmission electron microscopy		
8:30 AM	Wang, Xingzhi	data of semiconductor nanocrystals	20	3643443
0.50 414	Wan la Duai	Crystal phase and size-controllable synthesis of CsPbBr3		
8:50 AM	Wen, Je-Ruei	nanorods Photochemically-triggered formation of 3D epitaxially-	20	3645914
9:10 AM	Qian, Caroline	fused colloidal quantum dot superlattices	20	3646646
3.10711	Qian, caronic	Effective softness-dependent self-assembly of	20	3040040
9:40 AM	Yun, Hongseok	polystyrene-grafted Au nanocrystals	20	3646843
		Plasmonic substrates through surface chemical		
	Vinnacombe-Willson,	patterning and direct bottom-up synthesis of gold		
10:00 AM	Gail	nanoparticles	20	3647028
10:20 AM	McGlothin, Connor	Inorganic self-replicating nanoparticles	20	3652596
		Kinetically controlled assembly of multicomponent		
10.40 AM	Wang Vi	polymer-grafted nanocrystals into ordered	20	2652644
10:40 AM	Wang, Yi		20	3652641
Sunday		polymer-grafted nanocrystals into ordered superstructures using solvent vapor annealing	Room 24A	
	Wang, Yi Oral - In-person	polymer-grafted nanocrystals into ordered		3652641 COLL021B
Sunday		polymer-grafted nanocrystals into ordered superstructures using solvent vapor annealing  Colloidal Nanoparticle Synthesis and Assembly Bulk grain-boundary materials through pressure-processing of nanocrystal	Room 24A	
Sunday 3/20/2022 2:00 PM	Oral - In-person	polymer-grafted nanocrystals into ordered superstructures using solvent vapor annealing  Colloidal Nanoparticle Synthesis and Assembly Bulk grain-boundary materials through pressure-processing of nanocrystal Confined growth of plasmonic nanostructures and their	Room 24A (SDCC)	COLL021B
Sunday 3/20/2022	Oral - In-person	polymer-grafted nanocrystals into ordered superstructures using solvent vapor annealing  Colloidal Nanoparticle Synthesis and Assembly Bulk grain-boundary materials through pressure-processing of nanocrystal Confined growth of plasmonic nanostructures and their transformation and assembly	Room 24A (SDCC)	COLL021B
Sunday 3/20/2022 2:00 PM 2:30 PM	Oral - In-person Chen, Ou Yin, Yadong	polymer-grafted nanocrystals into ordered superstructures using solvent vapor annealing  Colloidal Nanoparticle Synthesis and Assembly Bulk grain-boundary materials through pressure-processing of nanocrystal Confined growth of plasmonic nanostructures and their transformation and assembly Controlled formation and application of three-	Room 24A (SDCC) 30	COLL021B 3647174 3650436
Sunday 3/20/2022 2:00 PM	Oral - In-person Chen, Ou	polymer-grafted nanocrystals into ordered superstructures using solvent vapor annealing  Colloidal Nanoparticle Synthesis and Assembly Bulk grain-boundary materials through pressure-processing of nanocrystal Confined growth of plasmonic nanostructures and their transformation and assembly Controlled formation and application of three-dimensional periodic porous carbon structures	Room 24A (SDCC)	COLL021B 3647174
Sunday 3/20/2022 2:00 PM 2:30 PM 3:00 PM	Oral - In-person  Chen, Ou  Yin, Yadong  Wang, Wei	polymer-grafted nanocrystals into ordered superstructures using solvent vapor annealing  Colloidal Nanoparticle Synthesis and Assembly Bulk grain-boundary materials through pressure-processing of nanocrystal Confined growth of plasmonic nanostructures and their transformation and assembly Controlled formation and application of three-dimensional periodic porous carbon structures On the mechanism of anion exchange in halide	Room 24A (SDCC) 30 30 30	COLL021B 3647174 3650436 3661920
Sunday 3/20/2022 2:00 PM 2:30 PM 3:00 PM 3:40 PM	Oral - In-person  Chen, Ou  Yin, Yadong  Wang, Wei  ABIODUN, SAKIRU	polymer-grafted nanocrystals into ordered superstructures using solvent vapor annealing  Colloidal Nanoparticle Synthesis and Assembly Bulk grain-boundary materials through pressure-processing of nanocrystal Confined growth of plasmonic nanostructures and their transformation and assembly Controlled formation and application of three-dimensional periodic porous carbon structures On the mechanism of anion exchange in halide perovskite quantum dot solutions	Room 24A (SDCC) 30 30 30 20	COLL021B  3647174  3650436  3661920  3662453
Sunday 3/20/2022 2:00 PM 2:30 PM 3:00 PM 3:40 PM 4:00 PM	Oral - In-person  Chen, Ou  Yin, Yadong  Wang, Wei  ABIODUN, SAKIRU  Hernandez-Pagan, Emil	polymer-grafted nanocrystals into ordered superstructures using solvent vapor annealing  Colloidal Nanoparticle Synthesis and Assembly Bulk grain-boundary materials through pressure-processing of nanocrystal Confined growth of plasmonic nanostructures and their transformation and assembly Controlled formation and application of three-dimensional periodic porous carbon structures On the mechanism of anion exchange in halide perovskite quantum dot solutions Cyrene as a "green" solvent for nanoparticles synthesis	Room 24A (SDCC) 30 30 30 20 20	COLL021B  3647174  3650436  3661920  3662453 3661529
Sunday 3/20/2022 2:00 PM 2:30 PM 3:00 PM 3:40 PM	Oral - In-person  Chen, Ou  Yin, Yadong  Wang, Wei  ABIODUN, SAKIRU	polymer-grafted nanocrystals into ordered superstructures using solvent vapor annealing  Colloidal Nanoparticle Synthesis and Assembly Bulk grain-boundary materials through pressure-processing of nanocrystal Confined growth of plasmonic nanostructures and their transformation and assembly Controlled formation and application of three-dimensional periodic porous carbon structures On the mechanism of anion exchange in halide perovskite quantum dot solutions Cyrene as a "green" solvent for nanoparticles synthesis Scalable synthesis of infrared absorbing gold nanowires	Room 24A (SDCC) 30 30 30 20	COLL021B  3647174  3650436  3661920  3662453
Sunday 3/20/2022 2:00 PM 2:30 PM 3:00 PM 3:40 PM 4:00 PM	Oral - In-person  Chen, Ou  Yin, Yadong  Wang, Wei  ABIODUN, SAKIRU  Hernandez-Pagan, Emil	polymer-grafted nanocrystals into ordered superstructures using solvent vapor annealing  Colloidal Nanoparticle Synthesis and Assembly Bulk grain-boundary materials through pressure-processing of nanocrystal Confined growth of plasmonic nanostructures and their transformation and assembly Controlled formation and application of three-dimensional periodic porous carbon structures On the mechanism of anion exchange in halide perovskite quantum dot solutions Cyrene as a "green" solvent for nanoparticles synthesis	Room 24A (SDCC) 30 30 30 20 20	COLL021B  3647174  3650436  3661920  3662453 3661529
Sunday 3/20/2022 2:00 PM 2:30 PM 3:00 PM 3:40 PM 4:00 PM 4:20 PM	Oral - In-person  Chen, Ou  Yin, Yadong  Wang, Wei  ABIODUN, SAKIRU  Hernandez-Pagan, Emil  Park, Kyoungweon	polymer-grafted nanocrystals into ordered superstructures using solvent vapor annealing  Colloidal Nanoparticle Synthesis and Assembly Bulk grain-boundary materials through pressure-processing of nanocrystal Confined growth of plasmonic nanostructures and their transformation and assembly Controlled formation and application of three-dimensional periodic porous carbon structures On the mechanism of anion exchange in halide perovskite quantum dot solutions Cyrene as a "green" solvent for nanoparticles synthesis Scalable synthesis of infrared absorbing gold nanowires Accessing different stoichiometric phases of Cr —	Room 24A (SDCC)  30  30  30  20  20  20  20	COLL021B  3647174  3650436  3661920  3662453 3661529 3661295
Sunday 3/20/2022 2:00 PM 2:30 PM 3:00 PM 3:40 PM 4:00 PM 4:20 PM	Oral - In-person  Chen, Ou  Yin, Yadong  Wang, Wei  ABIODUN, SAKIRU  Hernandez-Pagan, Emil  Park, Kyoungweon	polymer-grafted nanocrystals into ordered superstructures using solvent vapor annealing  Colloidal Nanoparticle Synthesis and Assembly Bulk grain-boundary materials through pressure-processing of nanocrystal Confined growth of plasmonic nanostructures and their transformation and assembly Controlled formation and application of three-dimensional periodic porous carbon structures On the mechanism of anion exchange in halide perovskite quantum dot solutions Cyrene as a "green" solvent for nanoparticles synthesis Scalable synthesis of infrared absorbing gold nanowires Accessing different stoichiometric phases of Cr — tellurides through solution phase synthesis	Room 24A (SDCC)  30  30  30  20  20  20	COLL021B  3647174  3650436  3661920  3662453 3661529 3661295
Sunday 3/20/2022 2:00 PM 2:30 PM 3:00 PM 4:00 PM 4:20 PM 4:40 PM Sunday 3/20/2022	Oral - In-person  Chen, Ou  Yin, Yadong  Wang, Wei  ABIODUN, SAKIRU  Hernandez-Pagan, Emil  Park, Kyoungweon  Parobek, David  Oral - In-person	polymer-grafted nanocrystals into ordered superstructures using solvent vapor annealing  Colloidal Nanoparticle Synthesis and Assembly Bulk grain-boundary materials through pressure-processing of nanocrystal Confined growth of plasmonic nanostructures and their transformation and assembly Controlled formation and application of three-dimensional periodic porous carbon structures On the mechanism of anion exchange in halide perovskite quantum dot solutions Cyrene as a "green" solvent for nanoparticles synthesis Scalable synthesis of infrared absorbing gold nanowires Accessing different stoichiometric phases of Cr — tellurides through solution phase synthesis  Active and Responsive Interfaces AC field powered propulsion and frequency-controlled	Room 24A (SDCC)  30  30  30  20  20  20  Room 23C (SDCC)	COLL021B  3647174  3650436  3661920  3662453  3661529  3661295  3660835  COLL023A
Sunday 3/20/2022 2:00 PM 2:30 PM 3:00 PM 4:00 PM 4:20 PM 4:40 PM Sunday 3/20/2022 8:00 AM	Oral - In-person  Chen, Ou  Yin, Yadong  Wang, Wei  ABIODUN, SAKIRU Hernandez-Pagan, Emil Park, Kyoungweon  Parobek, David  Oral - In-person  Velev, Orlin	colloidal Nanoparticle Synthesis and Assembly Bulk grain-boundary materials through pressure- processing of nanocrystal Confined growth of plasmonic nanostructures and their transformation and assembly Controlled formation and application of three- dimensional periodic porous carbon structures On the mechanism of anion exchange in halide perovskite quantum dot solutions Cyrene as a "green" solvent for nanoparticles synthesis Scalable synthesis of infrared absorbing gold nanowires Accessing different stoichiometric phases of Cr — tellurides through solution phase synthesis  Active and Responsive Interfaces AC field powered propulsion and frequency-controlled steering of engineered metallo-dielectric microparticles	Room 24A (SDCC)  30  30  30  20  20  20  Room 23C	COLL021B  3647174  3650436  3661920  3662453  3661529  3661295  3660835
Sunday 3/20/2022 2:00 PM 2:30 PM 3:00 PM 4:00 PM 4:20 PM 4:40 PM Sunday 3/20/2022	Oral - In-person  Chen, Ou  Yin, Yadong  Wang, Wei  ABIODUN, SAKIRU  Hernandez-Pagan, Emil  Park, Kyoungweon  Parobek, David  Oral - In-person	colloidal Nanoparticle Synthesis and Assembly Bulk grain-boundary materials through pressure- processing of nanocrystal Confined growth of plasmonic nanostructures and their transformation and assembly Controlled formation and application of three- dimensional periodic porous carbon structures On the mechanism of anion exchange in halide perovskite quantum dot solutions Cyrene as a "green" solvent for nanoparticles synthesis Scalable synthesis of infrared absorbing gold nanowires Accessing different stoichiometric phases of Cr — tellurides through solution phase synthesis  Active and Responsive Interfaces AC field powered propulsion and frequency-controlled steering of engineered metallo-dielectric microparticles Active motion of patchy microellipsoids in electric field	Room 24A (SDCC)  30  30  30  20  20  20  Room 23C (SDCC)	COLL021B  3647174  3650436  3661920  3662453  3661529  3661295  3660835  COLL023A
Sunday 3/20/2022 2:00 PM 2:30 PM 3:00 PM 4:00 PM 4:20 PM 4:40 PM Sunday 3/20/2022 8:00 AM 8:17 AM	Oral - In-person  Chen, Ou  Yin, Yadong  Wang, Wei  ABIODUN, SAKIRU  Hernandez-Pagan, Emil  Park, Kyoungweon  Parobek, David  Oral - In-person  Velev, Orlin  Bharti, Bhuvnesh	colloidal Nanoparticle Synthesis and Assembly Bulk grain-boundary materials through pressure- processing of nanocrystal Confined growth of plasmonic nanostructures and their transformation and assembly Controlled formation and application of three- dimensional periodic porous carbon structures On the mechanism of anion exchange in halide perovskite quantum dot solutions Cyrene as a "green" solvent for nanoparticles synthesis Scalable synthesis of infrared absorbing gold nanowires Accessing different stoichiometric phases of Cr — tellurides through solution phase synthesis  Active and Responsive Interfaces AC field powered propulsion and frequency-controlled steering of engineered metallo-dielectric microparticles Active motion of patchy microellipsoids in electric field Multipolar assembly of anisotropic clusters from Janus	Room 24A (SDCC)  30  30  30  20  20  20  Room 23C (SDCC)	COLL021B  3647174  3650436  3661920  3662453  3661529  3661295  3660835  COLL023A  3657210  3656817
Sunday 3/20/2022 2:00 PM 2:30 PM 3:00 PM 4:00 PM 4:20 PM 4:40 PM Sunday 3/20/2022 8:00 AM	Oral - In-person  Chen, Ou  Yin, Yadong  Wang, Wei  ABIODUN, SAKIRU Hernandez-Pagan, Emil Park, Kyoungweon  Parobek, David  Oral - In-person  Velev, Orlin	colloidal Nanoparticle Synthesis and Assembly Bulk grain-boundary materials through pressure- processing of nanocrystal Confined growth of plasmonic nanostructures and their transformation and assembly Controlled formation and application of three- dimensional periodic porous carbon structures On the mechanism of anion exchange in halide perovskite quantum dot solutions Cyrene as a "green" solvent for nanoparticles synthesis Scalable synthesis of infrared absorbing gold nanowires Accessing different stoichiometric phases of Cr — tellurides through solution phase synthesis  Active and Responsive Interfaces AC field powered propulsion and frequency-controlled steering of engineered metallo-dielectric microparticles Active motion of patchy microellipsoids in electric field Multipolar assembly of anisotropic clusters from Janus and isotropic colloids	Room 24A (SDCC)  30  30  30  20  20  20  Room 23C (SDCC)	COLL021B  3647174  3650436  3661920  3662453  3661529  3661295  3660835  COLL023A  3657210
Sunday 3/20/2022 2:00 PM 2:30 PM 3:00 PM 4:00 PM 4:20 PM 4:40 PM Sunday 3/20/2022 8:00 AM 8:17 AM	Oral - In-person  Chen, Ou  Yin, Yadong  Wang, Wei  ABIODUN, SAKIRU  Hernandez-Pagan, Emil  Park, Kyoungweon  Parobek, David  Oral - In-person  Velev, Orlin  Bharti, Bhuvnesh	colloidal Nanoparticle Synthesis and Assembly Bulk grain-boundary materials through pressure- processing of nanocrystal Confined growth of plasmonic nanostructures and their transformation and assembly Controlled formation and application of three- dimensional periodic porous carbon structures On the mechanism of anion exchange in halide perovskite quantum dot solutions Cyrene as a "green" solvent for nanoparticles synthesis Scalable synthesis of infrared absorbing gold nanowires Accessing different stoichiometric phases of Cr — tellurides through solution phase synthesis  Active and Responsive Interfaces AC field powered propulsion and frequency-controlled steering of engineered metallo-dielectric microparticles Active motion of patchy microellipsoids in electric field Multipolar assembly of anisotropic clusters from Janus	Room 24A (SDCC)  30  30  30  20  20  20  Room 23C (SDCC)	COLL021B  3647174  3650436  3661920  3662453  3661529  3661295  3660835  COLL023A  3657210  3656817

		Transformable microarrays of shape reconfigurable		
9:08 AM	Liu, Mingzhu	microparticles	17	3648849
	,	Writing light-powered active nanostructures on		
9:25 AM	Li, Wangxiang	molecular crystals using electron beam lithography	17	3657123
0.42 414	7h aldaaaa Warrhan	Stimuli-responsive 6-dimensional polymer brush		
9:42 AM	Zholdassov, Yerzhan Fontaine, Sarah	hypersurfaces Fabrication of magnetic micropillars for cell	17	3657319
9:59 AM	Ruehe, Juergen	mechanotransduction studies	17	3656558
	, 0	Surface acoustic wave mitigation of precipitate		
		deposition on a solid surface – an active strategy for self		
10:16 AM	Manor, Ofer	cleaning surfacs	17	3650551
10.22 414	Dovozkilia Dinar	Photothermal dye-doped liquid crystals for NIR-	4-7	2642047
10:33 AM	Beyazkilic, Pinar	responsive release applications	17	3643047
10:50 AM	Demers, Steven	FRET based biosensors for CBRN threat detection Light-controlled reconfigurable micromotor swarms in	17	3652545
11:07 AM	Fan, Donglei	an electric field	17	3675368
	, 208.0.	Anomalous potential-dependent friction on Au(111)	Ξ,	3073300
11:24 AM	Pesika, Noshir	measured by AFM	17	3675433
		Ambient bistable single dipole switching in a molecular		
11:41 AM	Mertens, Stijn	monolayer	17	3677663
Sunday 3/20/2022	Oral - In-person	Nanomaterials Using Colloidal Synthesis for Energy Applications and Catalysis	Room 24A	COLLOZOA
3/20/2022	Orar - III-person	Shape controlled emissive properties of Mn-doped	(SDCC)	COLL038A
10:00 AM	Mondal, Debayan	CsPbBr3 nanocrystals	30	3649972
	,	Al@TiO2 core-shell structures for hot carrier		
10:30 AM	Bayles, Aaron	photocatalysis	30	3659616
			Zoom	
_			Room 7	
Sunday	Oral Virtual	Biomembrane Synthesis, Structure, Mechanics, and	Room 7 (Virtual	
Sunday 3/20/2022	Oral - Virtual	Dynamics	Room 7	COLL004A
•	Oral - Virtual	<b>Dynamics</b> Molecular interactions between peptides and model	Room 7 (Virtual	COLL004A
•	Oral - Virtual Chen, Zhan	Dynamics	Room 7 (Virtual	COLL004A 3656439
3/20/2022 10:00 AM	Chen, Zhan Lecommandoux,	Dynamics Molecular interactions between peptides and model cell membranes probed by sum frequency generation vibrational spectroscopy Biomimetic synthetic lipoproteins as model membranes	Room 7 (Virtual Room)	
3/20/2022	Chen, Zhan Lecommandoux, Sebastien	Dynamics Molecular interactions between peptides and model cell membranes probed by sum frequency generation vibrational spectroscopy Biomimetic synthetic lipoproteins as model membranes with controlled permeability	Room 7 (Virtual Room)	
3/20/2022 10:00 AM	Chen, Zhan Lecommandoux,	Dynamics Molecular interactions between peptides and model cell membranes probed by sum frequency generation vibrational spectroscopy Biomimetic synthetic lipoproteins as model membranes with controlled permeability Modulating membrane shape and mechanics by light	Room 7 (Virtual Room)	3656439
3/20/2022 10:00 AM 10:25 AM 10:50 AM	Chen, Zhan Lecommandoux, Sebastien Aleksanyan, Mina	Dynamics Molecular interactions between peptides and model cell membranes probed by sum frequency generation vibrational spectroscopy Biomimetic synthetic lipoproteins as model membranes with controlled permeability Modulating membrane shape and mechanics by light Liquid-liquid phase separation modulates membrane	Room 7 (Virtual Room) 25 25 25	3656439 3657974 3649610
3/20/2022 10:00 AM 10:25 AM	Chen, Zhan Lecommandoux, Sebastien	Dynamics Molecular interactions between peptides and model cell membranes probed by sum frequency generation vibrational spectroscopy Biomimetic synthetic lipoproteins as model membranes with controlled permeability Modulating membrane shape and mechanics by light Liquid-liquid phase separation modulates membrane structure and hydration	Room 7 (Virtual Room) 25	3656439 3657974
3/20/2022 10:00 AM 10:25 AM 10:50 AM	Chen, Zhan Lecommandoux, Sebastien Aleksanyan, Mina Mangiarotti, Agustin	Dynamics  Molecular interactions between peptides and model cell membranes probed by sum frequency generation vibrational spectroscopy Biomimetic synthetic lipoproteins as model membranes with controlled permeability  Modulating membrane shape and mechanics by light Liquid-liquid phase separation modulates membrane structure and hydration  High-throughput production of multi-compartment	Room 7 (Virtual Room) 25 25 25	3656439 3657974 3649610 3645967
3/20/2022 10:00 AM 10:25 AM 10:50 AM 11:15 AM	Chen, Zhan Lecommandoux, Sebastien Aleksanyan, Mina	Dynamics Molecular interactions between peptides and model cell membranes probed by sum frequency generation vibrational spectroscopy Biomimetic synthetic lipoproteins as model membranes with controlled permeability Modulating membrane shape and mechanics by light Liquid-liquid phase separation modulates membrane structure and hydration	Room 7 (Virtual Room) 25 25 25	3656439 3657974 3649610
3/20/2022 10:00 AM 10:25 AM 10:50 AM 11:15 AM	Chen, Zhan Lecommandoux, Sebastien Aleksanyan, Mina Mangiarotti, Agustin Robinson, Tom Pabst, Georg	Dynamics  Molecular interactions between peptides and model cell membranes probed by sum frequency generation vibrational spectroscopy Biomimetic synthetic lipoproteins as model membranes with controlled permeability  Modulating membrane shape and mechanics by light Liquid-liquid phase separation modulates membrane structure and hydration  High-throughput production of multi-compartment synthetic eukaryotic cells  Intrinsic lipid curvatures: Experimental evidence for non-linear and non-additive mixing	Room 7 (Virtual Room) 25 25 25	3656439 3657974 3649610 3645967
3/20/2022 10:00 AM 10:25 AM 10:50 AM 11:15 AM 11:40 AM 12:05 PM	Chen, Zhan Lecommandoux, Sebastien Aleksanyan, Mina Mangiarotti, Agustin Robinson, Tom Pabst, Georg Semeraro, Enrico	Dynamics  Molecular interactions between peptides and model cell membranes probed by sum frequency generation vibrational spectroscopy Biomimetic synthetic lipoproteins as model membranes with controlled permeability  Modulating membrane shape and mechanics by light Liquid-liquid phase separation modulates membrane structure and hydration  High-throughput production of multi-compartment synthetic eukaryotic cells Intrinsic lipid curvatures: Experimental evidence for non-linear and non-additive mixing  Bridging the activity of lactoferricin derivatives in E. coli	Room 7 (Virtual Room) 25 25 25 25 25	3656439 3657974 3649610 3645967 3659812 3651920
3/20/2022 10:00 AM 10:25 AM 10:50 AM 11:15 AM 11:40 AM	Chen, Zhan Lecommandoux, Sebastien Aleksanyan, Mina Mangiarotti, Agustin Robinson, Tom Pabst, Georg	Dynamics  Molecular interactions between peptides and model cell membranes probed by sum frequency generation vibrational spectroscopy Biomimetic synthetic lipoproteins as model membranes with controlled permeability  Modulating membrane shape and mechanics by light Liquid-liquid phase separation modulates membrane structure and hydration  High-throughput production of multi-compartment synthetic eukaryotic cells  Intrinsic lipid curvatures: Experimental evidence for non-linear and non-additive mixing	Room 7 (Virtual Room)  25  25  25  25  25  25  25	3656439 3657974 3649610 3645967 3659812
3/20/2022 10:00 AM 10:25 AM 10:50 AM 11:15 AM 11:40 AM 12:05 PM 12:30 PM	Chen, Zhan Lecommandoux, Sebastien Aleksanyan, Mina Mangiarotti, Agustin Robinson, Tom Pabst, Georg Semeraro, Enrico	Dynamics Molecular interactions between peptides and model cell membranes probed by sum frequency generation vibrational spectroscopy Biomimetic synthetic lipoproteins as model membranes with controlled permeability Modulating membrane shape and mechanics by light Liquid-liquid phase separation modulates membrane structure and hydration High-throughput production of multi-compartment synthetic eukaryotic cells Intrinsic lipid curvatures: Experimental evidence for non-linear and non-additive mixing Bridging the activity of lactoferricin derivatives in E. coli and lipid-only membranes: Partitioning and kinetics	Room 7 (Virtual Room)  25  25  25  25  25  25  25  25  25  2	3656439 3657974 3649610 3645967 3659812 3651920
3/20/2022 10:00 AM 10:25 AM 10:50 AM 11:15 AM 11:40 AM 12:05 PM 12:30 PM Sunday	Chen, Zhan Lecommandoux, Sebastien Aleksanyan, Mina Mangiarotti, Agustin Robinson, Tom Pabst, Georg Semeraro, Enrico Federico	Dynamics Molecular interactions between peptides and model cell membranes probed by sum frequency generation vibrational spectroscopy Biomimetic synthetic lipoproteins as model membranes with controlled permeability Modulating membrane shape and mechanics by light Liquid-liquid phase separation modulates membrane structure and hydration High-throughput production of multi-compartment synthetic eukaryotic cells Intrinsic lipid curvatures: Experimental evidence for non-linear and non-additive mixing Bridging the activity of lactoferricin derivatives in E. coli and lipid-only membranes: Partitioning and kinetics  Biomembrane Synthesis, Structure, Mechanics, and	Room 7 (Virtual Room)  25  25  25  25  25  25  25  25  Virtual	3656439 3657974 3649610 3645967 3659812 3651920 3653400
3/20/2022 10:00 AM 10:25 AM 10:50 AM 11:15 AM 11:40 AM 12:05 PM 12:30 PM Sunday 3/20/2022	Chen, Zhan Lecommandoux, Sebastien Aleksanyan, Mina Mangiarotti, Agustin Robinson, Tom Pabst, Georg Semeraro, Enrico Federico Oral - Virtual	Dynamics Molecular interactions between peptides and model cell membranes probed by sum frequency generation vibrational spectroscopy Biomimetic synthetic lipoproteins as model membranes with controlled permeability Modulating membrane shape and mechanics by light Liquid-liquid phase separation modulates membrane structure and hydration High-throughput production of multi-compartment synthetic eukaryotic cells Intrinsic lipid curvatures: Experimental evidence for non-linear and non-additive mixing Bridging the activity of lactoferricin derivatives in E. coli and lipid-only membranes: Partitioning and kinetics  Biomembrane Synthesis, Structure, Mechanics, and Dynamics	Room 7 (Virtual Room)  25 25 25 25 25 25 25 25 Virtual Room)	3656439 3657974 3649610 3645967 3659812 3651920 3653400
3/20/2022 10:00 AM 10:25 AM 10:50 AM 11:15 AM 11:40 AM 12:05 PM 12:30 PM Sunday	Chen, Zhan Lecommandoux, Sebastien Aleksanyan, Mina Mangiarotti, Agustin Robinson, Tom Pabst, Georg Semeraro, Enrico Federico	Dynamics Molecular interactions between peptides and model cell membranes probed by sum frequency generation vibrational spectroscopy Biomimetic synthetic lipoproteins as model membranes with controlled permeability Modulating membrane shape and mechanics by light Liquid-liquid phase separation modulates membrane structure and hydration High-throughput production of multi-compartment synthetic eukaryotic cells Intrinsic lipid curvatures: Experimental evidence for non-linear and non-additive mixing Bridging the activity of lactoferricin derivatives in E. coli and lipid-only membranes: Partitioning and kinetics  Biomembrane Synthesis, Structure, Mechanics, and Dynamics Surfactant-mediated destruction of myelin figures	Room 7 (Virtual Room)  25  25  25  25  25  25  25  25  Virtual	3656439 3657974 3649610 3645967 3659812 3651920 3653400
3/20/2022 10:00 AM 10:25 AM 10:50 AM 11:15 AM 11:40 AM 12:05 PM 12:30 PM Sunday 3/20/2022	Chen, Zhan Lecommandoux, Sebastien Aleksanyan, Mina Mangiarotti, Agustin Robinson, Tom Pabst, Georg Semeraro, Enrico Federico Oral - Virtual	Dynamics Molecular interactions between peptides and model cell membranes probed by sum frequency generation vibrational spectroscopy Biomimetic synthetic lipoproteins as model membranes with controlled permeability Modulating membrane shape and mechanics by light Liquid-liquid phase separation modulates membrane structure and hydration High-throughput production of multi-compartment synthetic eukaryotic cells Intrinsic lipid curvatures: Experimental evidence for non-linear and non-additive mixing Bridging the activity of lactoferricin derivatives in E. coli and lipid-only membranes: Partitioning and kinetics  Biomembrane Synthesis, Structure, Mechanics, and Dynamics	Room 7 (Virtual Room)  25 25 25 25 25 25 25 25 Virtual Room)	3656439 3657974 3649610 3645967 3659812 3651920 3653400
3/20/2022 10:00 AM 10:25 AM 10:50 AM 11:15 AM 11:40 AM 12:05 PM 12:30 PM Sunday 3/20/2022 4:00 PM	Chen, Zhan Lecommandoux, Sebastien Aleksanyan, Mina Mangiarotti, Agustin Robinson, Tom Pabst, Georg Semeraro, Enrico Federico  Oral - Virtual Speer, Daniel Hamada, Naomi	Dynamics Molecular interactions between peptides and model cell membranes probed by sum frequency generation vibrational spectroscopy Biomimetic synthetic lipoproteins as model membranes with controlled permeability Modulating membrane shape and mechanics by light Liquid-liquid phase separation modulates membrane structure and hydration High-throughput production of multi-compartment synthetic eukaryotic cells Intrinsic lipid curvatures: Experimental evidence for non-linear and non-additive mixing Bridging the activity of lactoferricin derivatives in E. coli and lipid-only membranes: Partitioning and kinetics  Biomembrane Synthesis, Structure, Mechanics, and Dynamics Surfactant-mediated destruction of myelin figures Investigation of miscibility transitions in hybrid biomembranes with fluorescence spectroscopy Polarized deformations: Response of giant vesicles to	Room 7 (Virtual Room)  25 25 25 25 25 25 25 25 Virtual Room) 25	3656439 3657974 3649610 3645967 3659812 3651920 3653400 COLL004B 3660657
3/20/2022 10:00 AM 10:25 AM 10:50 AM 11:15 AM 11:40 AM 12:05 PM 12:30 PM Sunday 3/20/2022 4:00 PM	Chen, Zhan Lecommandoux, Sebastien Aleksanyan, Mina Mangiarotti, Agustin Robinson, Tom Pabst, Georg Semeraro, Enrico Federico  Oral - Virtual Speer, Daniel	Dynamics Molecular interactions between peptides and model cell membranes probed by sum frequency generation vibrational spectroscopy Biomimetic synthetic lipoproteins as model membranes with controlled permeability Modulating membrane shape and mechanics by light Liquid-liquid phase separation modulates membrane structure and hydration High-throughput production of multi-compartment synthetic eukaryotic cells Intrinsic lipid curvatures: Experimental evidence for non-linear and non-additive mixing Bridging the activity of lactoferricin derivatives in E. coli and lipid-only membranes: Partitioning and kinetics  Biomembrane Synthesis, Structure, Mechanics, and Dynamics  Surfactant-mediated destruction of myelin figures Investigation of miscibility transitions in hybrid biomembranes with fluorescence spectroscopy Polarized deformations: Response of giant vesicles to osmotic deflation under confinement	Room 7 (Virtual Room)  25 25 25 25 25 25 25 25 Virtual Room) 25	3656439 3657974 3649610 3645967 3659812 3651920 3653400 COLL004B 3660657
3/20/2022  10:00 AM  10:25 AM  10:50 AM  11:15 AM  11:40 AM  12:05 PM  12:30 PM  Sunday 3/20/2022 4:00 PM  4:25 PM	Chen, Zhan Lecommandoux, Sebastien Aleksanyan, Mina Mangiarotti, Agustin Robinson, Tom Pabst, Georg Semeraro, Enrico Federico  Oral - Virtual Speer, Daniel Hamada, Naomi	Dynamics Molecular interactions between peptides and model cell membranes probed by sum frequency generation vibrational spectroscopy Biomimetic synthetic lipoproteins as model membranes with controlled permeability Modulating membrane shape and mechanics by light Liquid-liquid phase separation modulates membrane structure and hydration High-throughput production of multi-compartment synthetic eukaryotic cells Intrinsic lipid curvatures: Experimental evidence for non-linear and non-additive mixing Bridging the activity of lactoferricin derivatives in E. coli and lipid-only membranes: Partitioning and kinetics  Biomembrane Synthesis, Structure, Mechanics, and Dynamics Surfactant-mediated destruction of myelin figures Investigation of miscibility transitions in hybrid biomembranes with fluorescence spectroscopy Polarized deformations: Response of giant vesicles to	Room 7 (Virtual Room)  25 25 25 25 25 25 25 25 25 25 25 25 25	3656439 3657974 3649610 3645967 3659812 3651920 3653400 COLL004B 3660657 3646792

5:40 PM	Goh, Melvin	Non-raft microdomain formation in cholesterol- containing lipid bilayers induced by polyunsaturated phosphatidylethanolamine Interactions of surfactants with the bacterial cell wall	:	25	3658058
6:05 PM	Sharma, Pradyumn	and inner membrane: Revealing the link between aggregation and antimicrobial activity Understanding the loss of CXCR4-mediated signalling in	2	25	3649274
6:30 PM	Verma, Anant	the presence of oxysterols		25	3658405
Sunday			Exhibit Hall C		
3/20/2022	Poster - In-person	Colloidal Gels Probing interfacial structural dynamics of charged glassy	(SDCC)		COLL003A
7:00 PM	Deptula, Alexander	gels Influence of surface functionalization on the structure		0	3638721
7:00 PM	Green, Allison	of nanocrystal gels assembled with depletion attractions Effects of ligand coverage and linker concentration on		0	3653910
7:00 PM	Lin, Emily	the structure of linker-mediated nanocrystal gels Location of the gel-like boundary in patchy colloidal dispersions: Rigidity percolation, structure, and particle		0	3653952
7:00 PM	Sánchez, Javier	dynamics Wertheim theory predictions for phase behavior and		0	3655073
7:00 PM	Wilcoxson, Tanner	bonding motifs of linker-mediated colloidal gel formers	F. 1.71.71	0	3664301
Sunday 3/20/2022	Poster - In-person	Biomembrane Synthesis, Structure, Mechanics, and Dynamics Role for oxidized phospholipids in regulating membrane	Exhibit Hall C (SDCC)		COLL005A
7:00 PM	Cavazos, Andres	architecture?  Molecular simulations and NMR spectroscopy reveal		0	3652088
7:00 PM	Brown, Michael	antimicrobial peptide membrane interactions Osmotic stress and crowding in G-protein-coupled		0	3653154
7:00 PM	Brown, Michael	receptor activation  New door to membrane mechanics: Collective lipid		0	3655933
7:00 PM	Doktorova, Milka	dynamics inform bilayer bending rigidity		0	3659765
Sunday 3/20/2022	Poster - In-person	Colloid, Nanomaterial, and Interface Chemistry Research at Primarily Undergraduate Institutions	Exhibit Hall C (SDCC)		COLL011A
		β-glucosidase immobilized on iron oxide nanoparticle: Impacts of enzyme load and functional group density on			
7:00 PM	Le-Vasicek, Thad	specific activity and storage stability  Observing membrane interactions of American propolis		0	3638698
7:00 PM	Peterson, Gabriela	constiuents with lipids utlizing Langmuir monolayers Influence of mannitol on GeO2 colloid growth and		0	3639490
7:00 PM	Schauer, Ben Lam, Theresa	stability		0	3648539
7:00 PM	Dworkin, Jennie   Popnikolova, Betina Dang, Quang Minh	Investigation of $\beta$ 2-microglobulin networking over goldnanoparticle surfaces		0	3649039
7:00 PM	Gilmore, Samuel   Lalwani, Karthik	Functionalized gold nanoparticles with halogen bonding capability – an avenue for molecular detection schemes Development of MIL-88B(Fe) thin films for applications		0	3651665
7:00 PM	Ruiz, Angel	in drug eluting stents  Exploring the formation of zeolitic imidazolate		0	3652362
7:00 PM	Dag Renjamin	framework-8 films on gold surfaces via self-assembled monolayers		0	2052220
7.00 8101	Dao, Benjamin Cuccurullo, Anthony	Creating conductive polymer nanofibers for biological		0	3652396
7:00 PM	De Leon Gonzalez, Jose	sensing applications		0	3652412

	Holt, Macey   Karam,				
7:00 PM	Marie	Creation of defects in UiO-66 via ball-milling		0	3652833
7.001111	Warre	Iron single atom catalyst as phenylalanine hydroxylase		U	3032033
7:00 PM	Burkert, Seth	mimic		0	3654550
7:00 PM	Miller, John	Post-synthetic exchange in UiO-66 via ball-milling Synthesis of uniform gold nanoparticle embedded		0	3654870
7:00 PM	Zaczyk, Misty	peptoid nanosheets		0	3655470
	Santariello, Jack   Lin,				
	Zichao   Hays, Jackson				
	seram, alexander	Investigation of the nano-size dependent an affinity of			
7:00 PM	Thomas, Joshua	the SARS-CoV-2 spike protein to the gold-colloid		0	3656896
7.00.014	0 11 11 1	Fabrication and evaluation of screen-printed graphene			
7:00 PM	Qualls, Hayden	electrodes for humidity sensors		0	3657110
7:00 PM	Narbay, Elif	Tunable resistive pulse sensing of ultra-soft microgel deformation and translocation		0	3657242
7.001101	Nai Day, Liii	Development of silica-xerogel-based optical humidity		U	3037242
7:00 PM	Bowser, Jacob	sensors		0	3657330
7:00 PM	Pandit, Sanika	Ultra-Low Crosslinked Microgel Based Bioinks		0	3657433
7.001141	r arrait, Sariika	As-synthesized alkyne-coated CdSe quantum Dots for		U	3037433
7:00 PM	Petner, Victoria	site-directed nanoparticle-substrate chemical linkage		0	3658882
		Evaluation of polymer surface modification as an			
	Copeland, Abigail	inhibitor of methicillin-resistant Staphylococcus aureus			
7:00 PM	Pickett, Hannah	(MRSA) biofilm formation		0	3659582
7.00.014		Translucent dye-doped silica aerogels: Aesthetic			
7:00 PM	Capron, Margeaux	approaches to window applications		0	3659704
7:00 PM	Hanigan-Diebel, Jennifer	Mixed-monolayer gold nanoparticle interactions with bovine serum albumin		0	3660950
7.00 FIVI	Jennier	Mixed-monolayer gold nanoparticles: Compositional		0	3660850
7:00 PM	Carroll, Matthias	analysis with an internal standard 1H-NMR experiment		0	3661184
	Afzal, Hamayl	Urea in confinement: Investigation of size and loading			
7:00 PM	Gourley, Bridget	limit study		0	3661362
		Hydrogen peroxide synthesis and the influence of			
		graphene acidity of OH groups from physical hole			
7:00 PM	Strattan, Ricci	defects		0	3661363
		Multi-functional polymer-nanoparticle composites for surface-enhanced Raman scattering sensing			
7:00 PM	Patrick, Samantha	applications		0	3661542
7.001101	ratrick, Samartia	Co-electrodeposition of nickel and platinum nanowires		U	3001342
7:00 PM	Del Rosario, Lauren	for methanol and ethanol oxidation		0	3661873
		Synthesis of SERS-active silica coated gold/silver alloy			
7:00 PM	Klinger, Bailey	nanostructures		0	3662169
	Flores, Brenda   Jaime,	Systematic search of physical hole defects in graphene			
7:00 PM	Susan	using an evolutionary algorithm		0	3666220
7:00 PM	Borchardt, Christian	Time-dependent spectroscopic study of sol-gel germania colloid growth		0	2667545
	Borcharut, Christian	germania conoid growth	Exhibit	0	3667545
Sunday			Hall C		
3/20/2022	Poster - In-person	Nanomaterials Au@Ag nanobipyramids based nanoplasmonic	(SDCC)		COLL013A
		sandwich immunoassay for tumor-derived exosome			
7:00 PM	Wang, Chuanyu	detection and exosomal PD-L1 profiling		0	3641542
	O/1	Double-helical silica nanotube structures templated by		_	
7:00 PM	Zhang, Shu	mixed pluronic surfactants		0	3642192
		Understanding metal oxide nanocrystal growth using a			
7:00 PM	Knecht, Tawney	continuous addition synthesis		0	3642449

		ZIF-8 coated stainless steel meshes with colloidally capped silver nanoparticles (CC Ag NPs) for removal of			
7:00 PM	Rodriguez, Ricky Jahinge, Tiron   Forbes,	organic dyes and bacterial species Effects of temperature on water ordering within metal-		0	3649775
7:00 PM	Tori	organic nanotubes Investigating surface ligand effects on electronic		0	3654638
7:00 PM	Tan, Lauren	structure of II-VI semiconductor nanoplatelets Tuning nanoscale friction at the graphene interface		0	3655903
7:00 PM	Greenwood, Gus	using an FET-like device Laser reducing graphene oxide for supercapacitor and		0	3656661
7:00 PM	Bashant, Caleb	sensor applications		0	3660223
7:00 PM	Spanedda, Nicole	Calculation of ionization energies and electron affinities of quantum dots and nanowires		0	3660748
		Identification and quantitation of bound surface ligands on semiconductor quantum dots using thermal			
7:00 PM	Van Patten, Paul	desorption-direct analysis in real-time mass spectrometry (TD-DART-MS)		0	3661151
7:00 PM	O'Brien, Konor	A study into the mechanisms in the synthesis of Co3O4 nanotubes		0	3661421
		Application of anti-microbial peptide attached quantum dot nanoplatform for biosensing and treatment of drug			
7:00 PM	Banerjee, Santanu	resistant bacteria	Exhibit	0	3662477
Sunday 3/20/2022	Poster - In-person	Surface Chemistry	Hall C (SDCC)		COLL015A
,	·	Patterned chemical surface functionalization for self-	,		
7:00 PM	Haris, Uroob	propelled micromotors "Off-surface" cross-linking of self-assembled		0	3649595
7:00 PM	Wilczek, Luke	monolayers: Reaction without morphology perturbation Systematic control of thiol groups on proteins for		0	3650054
7:00 PM	ogunlusi, Tosin	manipulating interaction with gold nanoparticles Surface preparation for single-molecule imaging in		0	3652673
7:00 PM	Gu, Kai	organic solvents  Nickel phosphide photocatalyst development for CO2-		0	3654251
7:00 PM	Hennig, Hannah	derived solar fuels		0	3654754
	Deeleepojananan,	Mechanistic study of surface-initiated reactions of household bleach and terpene cleaning products on			
7:00 PM	Cholaphan	indoor relevant surfaces Reactivity and selectivity of single atom catalysts on		0	3657259
7:00 PM	Wasim, Eman	metal oxide surfaces for the selective hydrogenation of acetylene		0	3658409
		Development of economical, low cost wax-on-plastic microfluidic viscometer			
7:00 PM	Van Matre, Stetson	Facile fabrication of extremely wet surface harnessing		0	3659396
7:00 PM	HOSSAIN, Kazi Zihan	5nm-thick gallium oxide on liquid metal Adsorption of organic redox molecules to the Ag (111)		0	3659540
7:00 PM	Sweet, Amelia	surface	Exhibit	0	3661852
Sunday 3/20/2022	Poster - In-person	Biomaterials and Biointerfaces	Hall C (SDCC)		COLL017A
7:00 PM	McClain, Sophia	Complex lipid-coated gold nanoparticles for the study of alpha-synuclein/membrane interactions		0	3645736
7:00 PM	Kummer, Nico	Engineering amyloid stabilized air-water interfaces for functional coatings		0	3649224
7:00 PM	Hoang, Khoi Nguyen	Au-coated iron oxide nanoparticles for proteomic analysis		0	3650390

7:00 PM	Kwon, Jiheon	Enhancing mechanical properties of agarose hydrogels via mineralization		0	3657083
7:00 PM	Fernandes, Natalia	Antibacterial activity of an eco-friendly biosurfactant produced by yeast		0	3657125
7:00 PM	Stegmann, Amy	De novo designed protein templates for directing mineralization of titanium oxides nanoparticles		0	3660225
7:00 PM	Hong, Celestine	Two-component, click-functionalized hemostat for the treatment of internal hemorrhage Engineering coatings for protein nanoclusters to		0	3662149
7:00 PM	Pho, Thomas	understand intranasal biological barriers		0	3662300
Sunday			Exhibit Hall C		
3/20/2022	Poster - In-person	Basic Research in Colloids, Surfactants and Interfaces	(SDCC)		COLL019A
7:00 PM	Yang, Diling	Probing hydrophobic interactions between polymer surfaces and air bubbles or oil droplets: Effects of molecular weight and surfactants Colloidal aggregation structure and temperature dependency of poly(vinyl alcohol) PVA in aqueous		0	3656702
7:00 PM	Natarajan, Upendra	solution investigated by molecular dynamics simulations	Fb.;b.;±	0	3669369
Sunday		Fundamental Research in Colloids, Surfaces and	Exhibit Hall C		
3/20/2022	Poster - In-person	Nanomaterials	(SDCC)		COLL020A
7:00 PM	Wei, Hong	Sensing platform for heavy metal ion detection with a bioinspired approach Mixed-metal aerogels for catalytic converter		0	3637454
7:00 PM	Barry, Patrick	applications: A closer look		0	3637624
7:00 PM	Alvarez, Carolina   Poworoznek, Carlie	Thickness, morphology and stability of hydrophilic polymers prepared on silicon wafers via spin coating		•	2544504
7:00 PM	Ahmed, Syeda Tajin	Forces between mica and end-grafted statistical copolymers of sulfobetaine and oligoethylene glycol in aqueous electrolyte solutions		0	3641684 3644451
7:00 PM	Quirk, Eleanor	Nucleotide adsorption onto TiO2, alpha-Fe2O3, and FeOOH nanoparticles: Probing nano-bio interactions as a function of nanoparticle composition and pH		0	3651550
7:00 PM	Zheng, Qianlu	Electrical double layer of ionic liquids on graphene electrode		0	3652876
7:00 PM	Griffin, Julia	Investigation of adsorption and desorption of poly(vinyl alcohol) from aqueous solution		0	3654002
7:00 PM	Hamilton, Heather	One-step synthesis of multiphasic polymer colloids			
7.00 1 101	riamiton, ricatrici	Damage through repeated low-level exposure: Defect accumulation in gold nanocrystals through non-		0	3655433
7:00 PM	Böttner, Jonas	hydrostatic pressure cycling Effective hard-sphere interactions between colloidal metal oxide nanocrystals by virial coefficient		0	3656811
7:00 PM	Ofosu, Charles	measurements		0	3657657
7:00 PM	Hogarth, Cameron	Hydrophobically modified prodrugs to improve control, stability and drug loading of lipid-based nanoparticles Mechanistic study of secondary cation release from the		0	3658576
7:00 PM	Rivera, Victoria	(001) surface of Li(NiyMnzCo1-y-z)O2 Rational design of phosphonate ligands for		0	3661333
7:00 PM	Hrovat, David	upconverting nanoparticles in biological applications		0	3662053
7:00 PM	Shen, Xinhang	Synthesis inverse diamond lattice by sol-gel method		0	3677702
7:00 PM	Choi, Hyunjun	ROS induced structural collapse of alternatively connected gold and silver nano-branches		0	3691094
7:00 PM	Ng, Ka Chon	FeCl3 species identification at air-aqueous interface using second harmonic generation spectroscopy		0	3694472

Considered			Exhibit		
Sunday 3/20/2022	Poster - In-person	Colloidal Nanoparticle Synthesis and Assembly	Hall C		COLL033A
3/20/2022	Poster - III-person	Gold nanostars: Synthesis, functionalization, and	(SDCC)		COLL022A
7:00 PM	Le, Natasha	application		0	3646741
7:00 PM	KIM, YUJIN	Patchy colloidal clusters with broken symmetry		0	3647461
	Baradaran Kayyal,	Dendronized gold nanorattles as multifunctional hybrid			
7:00 PM	Tohid	nanoparticles		0	3654033
7:00 PM	PARK, SEONG HUN	Self-assembled clusters of ultra-smooth gold nanospheres		•	2656045
7.00 PIVI	PARK, SEOING HON	Holey graphene oxide membranes with dual nano-		0	3656045
		capillaries for efficient water evaporation-induced			
7:00 PM	Lee, Ki Hyun	energy harvesting		0	3656363
	, ,	DNA microstructure-templated growth of iron oxide			
7:00 PM	Ji, Yoonbin	nanoparticles for colorimetric detection		0	3656403
		Controlled assembly of gold nanobipyramids and			
7:00 PM	Lowrance, Chanda	CdSe/CdS quantum Dot		0	3657437
		Metal/metal oxide decorated graphene fiber for highly			
7:00 PM	Jeong, Woojae	NO2 sensing performance		0	3657872
7:00 PM	Shin, Hwansoo	High performance Ti3C2Tx MXene fibers by aligning deformable MXene gel		_	2657000
7.00 PIVI	Silli, fiwalisoo	Metallic nanomaterial decorated silk thin films as		0	3657908
7:00 PM	Wee, Wynn	biocompatible SERS substrate		0	3661221
	wee, wym	Siocomputible Sens substitute	Exhibit	Ü	5001221
Sunday 3/20/2022	Doctor In norson	Active and Responsive Interfaces	Hall C		60110244
3/20/2022	Poster - In-person	Comparative study of mechanical, self-adhesive, self-	(SDCC)		COLL024A
		healable properties of a hybrid hydrogel based on			
7:00 PM	Sahoo, Subhangi	chitosan, tetraethylene glycol and polyacrylic acid		0	3650111
		UV-curable phenylenediamine coatings as a non-			
7:00 PM	Sadeghi, Kambiz	migratory antioxidant packaging film		0	3657495
		Light-responsive, shape-switchable block copolymer			
	Kwon, Seung Ho   Yun,	particles using azobenzene-grated Au nanoparticle			
7:00 PM	Hongseok	surfactants	Exhibit	0	3657781
Sunday		Colloidal Hybrid Materials Intended for Biological	Hall C		
3/20/2022	Poster - In-person	Applications	(SDCC)		COLL026A
		N-heterocyclic carbene-induced etching of gold			
7.00.014	Arabzadeh Nosratabad,	nanoparticles and growth of fluorescent gold			
7:00 PM	Neda Suárez	nanoclusters		0	3648368
7:00 PM	López, Rosa	Applying coarse-grained models to obtain Janus nanoparticle distributions		0	3648443
7.001101	Ladacate, pez, 1103a	Development of NIR-I light-activatable nanoparticles		U	3040443
	Tapia Hernandez,	with integrated NIR-II photoacoustic tracking for in vivo			
7:00 PM	Rodrigo	cargo delivery		0	3649473
	Acosta Santiago,	Developing mitochondria-targeting polymeric			
7:00 PM	Maxier	nanoparticles using peptides as non-covalent stabilizers		0	3652749
		Protein modification as a facile approach to retain			
7:00 PM	Riley, McKenzie	activity upon conjugation to gold nanoparticles		0	3653820
		Investigation of the self-assembly of double-hydrophilic polymer coated boron carbon oxy-nitride (BCNO) as a			
7:00 PM	Chien, Yun Chen	potent boron nanodrug		0	3653997
7.001101	chien, run chen	Plasmonic detection of glycosylated gold nanoparticles:		U	3033997
		influence of the polymeric glyco-linker on signal outputs			
7:00 PM	Georgiou, Panagiotis	due to protein-corona formation		0	3654982
		One-step cap exchange method to produce quantum			
7:00 PM	Rahmani, Paniz	Dot-oligonucleotide conjugates		0	3657134

7:00 PM	Petrek, Zachary	In-situ detection of SARS-CoV-2 pseudovirus via aptamer functionalized gold nanoparticles Development of pH-responsive peptide-coated nanoparticles for targeting and drug delivery to ovarian		0	3660647
7:00 PM	Dragulska, Sylwia	cancer cells	e 1 11 11	0	3661355
Sunday		Synthetic Amphiphiles and Formulations for the	Exhibit Hall C		
3/20/2022	Poster - In-person	Delivery of Drugs, Nucleic Acids and Proteins	(SDCC)		COLL031A
7:00 PM	LEE, JEONGHUN	Reversible interlayer boronic acid/diol crosslinked bottlebrush nanoparticles for drug delivery		0	3642753
7.001101	Cureno Hernandez,	Zwitterionic bottlebrush copolymers for effective		U	3042733
7:00 PM	Karla   Kim, Sung Hoon	mucosal transport		0	3642759
		Synthesis and characterization of rhamnolipids and			
7:00 PM	Compton, Avery	xylolipids using biosynthetic and synthetic b-hydroxy acids		0	3651589
7.001101	compton, Avery	Internalization into cancer cells of zwitterionic amino		U	3031369
7:00 PM	Takano, Shin	acid polymers via amino acid transporter recognition		0	3671531
Sunday		Frontiers and Challenges in Nanoparticle-Mediated	Exhibit Hall C		
3/20/2022	Poster - In-person	Chemical Transformations	(SDCC)		COLL033A
		Plasmonic activation of molecular switches via laser			
7:00 PM	Joy, Karena	irradiation	Exhibit	0	3657317
Sunday			Hall C		
3/20/2022	Poster - In-person	Controlled Assembly of Charged Soft Matter  Development of binary protein arrays composed of	(SDCC)		COLL035A
7:00 PM	Manzo, Elia	oppositely charged cage-like proteins		0	3650605
Sunday		Nanomaterials Using Colloidal Synthesis for Energy	Exhibit		
3/20/2022	Poster - In-person	Applications and Catalysis	Hall C (SDCC)		COLL039A
	·	Ultrafast interfacial electron transfer dynamics between	, ,		
7.00.014	DOV 6011141	CsPbBr3 perovskite nanocrystals and small organic			
7:00 PM	ROY, SOUMI Sanchez Lievanos, Karla	molecules Nanostructured spinel metal ferrites for photocatalytic		0	3650087
7:00 PM	Rosalia	water remediation		0	3656707
		Correlation between nanorheological and			
7:00 PM	Zhang, Xuhui	nanotribological nehavior of ionic liquids		0	3657047
7:00 PM	Dummer, Nicholas	Surfactant control of copper molybdate nanoparticles for photocatalysis		0	2050140
7.00 F W	Dulliller, Nicholas	Famatinite nanomaterial synthesis and characterization		U	3658149
7:00 PM	Jensen, Mitchel	for sustainable energy applications		0	3660960
		Dielectric effects dictate the emission anisotropy in			
7:00 PM	Rodriguez Ortiz, Freddy	colloidal CsPbBr3 nanorods	Exhibit	0	3661393
Sunday		PUNC: Nanomaterials Research at Primarily	Hall C		
3/20/2022	Poster - In-person	Undergraduate Institutions Facile strategy to fabricate WS2 based printable	(SDCC)		COLL041A
7:00 PM	Lyon, Zoe	electrode for VOC sensor		0	3648228
	Huynh, Chris   Banta,	Exploration and prevention of the surface barrier layer			
7:00 PM	Kelsey	on HKUST-1 films		0	3652792
		Nonenzymatic, noninvasive colorimetric detection of glucose on wax-printed microwells via gold			
7:00 PM	Ray, Brooklyn	nanoparticles		0	3653747
	,	Applying gold nanoparticles as force sensors in epoxy			
_	Tabo, Ayana   Hanson,	polymers: Synthesis and characterizations of epoxy			
7:00 PM	Lindsey	nanocomposites		0	3655736
7:00 PM	Kim, Dean	NMR studies on imine bond formation equilibria for the formation of colloidal covalent organic frameworks		0	3656818
	,	and the state of t		J	2020010

		Comparative DNA adductomic analysis of trout gill cells and bacterium B. subtilis upon timed exposure to		
7:00 PM	Lu, Kelly	LiCoO2 nanoparticles  Dynamic formation of H2O2 from nanoscale transition	0	3657489
7:00 PM	Tawakalna, Falak Hong, Brian   Svendahl,	metal oxides (TMOs) in aqueous suspensions	0	3657540
7:00 PM	Erica	Expanding the protein corona across organisms Colloidal covalent organic framework synthesis with	0	3657741
7:00 PM	Tran, Donna	carboxylic acid catalysts Regular dispersion of gold nanoparticles in a peptoid	0	3657763
7:00 PM	O'Connor, Walter	nanosheet Copper sulfide/copper selenide nanorhombuses	0	3660286
7:00 PM	Luo, Qi	through post-synthetic transformation Effect of Se and dodecanethiol on the shape and	0	3660541
7:00 PM	Xie, Wanrui	composition of copper sulfide nanorods Controlled zinc sulfide nanocrystal synthesis through	0	3660584
7:00 PM	Smith, Emily	studies of single-source precursors	0	3661528
Monday		ACS Award in Colloid Chemistry 2020 - Symposium in	Room 22	
3/21/2022	Oral - Hybrid	honor of Molly Stevens	(SDCC)	COLL007A
8:05 AM	Stoddart, James	Supramolecular metallurgical etchnology Encoding high bioactivity in supramolecular	30	3654713
8:35 AM	Stupp, Samuel	nanostructures	30	3659190
9:05 AM	Stellacci, Francesco	Supramolecular antivirals  Multi-functional nanocarrier platforms for anti-cancer	30	3651896
9:50 AM	Nel, Andre	immunity in heterogeneous tumor microenvironments	30	3651066
10:20 AM	Gu, Zhen	Glucose-responsive smart insulin delivery	30	3655162
10:50 AM	Gormley, Adam	Machine-assisted design of biointerfacial nanomaterials	30	3638707
11:20 AM	Spicer, Christopher	Exploring strategies for colloid-biomolecule conjugation	30	3658120
Monday		ACS Award in Colloid Chemistry 2020 - Symposium in	Room 22	
3/21/2022	Oral - Hybrid	honor of Molly Stevens Assembly and degradation of inorganic nanoparticle in	(SDCC)	COLL007B
2:00 PM	Parak, Wolfgang Jimenez de Aberasturi,	biological environment Inorganic nanoparticles/polymer hybrid materials for	30	3655914
2:30 PM	Dorleta	biomedicine Protein nanoparticles as multifunctional drug delivery	30	3656208
3:00 PM	Lahann, Joerg	carriers  Biosensing through chemical reactions on plasmonic	30	3656209
3:30 PM	Liz Marzan, Luis	nanoparticles	30	3642834
4:15 PM	Chandrawati, Rona	Nanozymes for nitric oxide delivery from endogenous and exogenous prodrugs	30	3653273
4:45 PM	Kotov, Nicholas	Graph theoretical methods for design of nanomaterials	30	3648511
5:15 PM	Weiss, Paul	Nanotechnology approaches to biology and medicine	30	3660789
Monday	,	ACS Award in Surface Chemistry 2022: Symposium in	Room 23A	
3/21/2022	Oral - Hybrid	honor of Miquel Salmeron	(SDCC)	COLL009B
0.00.444	ALC A L	Operando studies of CO2, CO and N2 catalytic		
8:00 AM	Nilsson, Anders	hydrogenation reactions with high pressure XPS	30	3653549
8:30 AM	Yang, Peidong	Nanowire photoelectrochemistry  Aqueous solution-vapor interfaces investigated by	30	3651335
9:00 AM	Bluhm, Hendrik	photoelectron spectroscopy  Toward understanding the role of the electrified	30	3650735
	Escudero-Escribano,	interface structure and electrolyte effects on well-		
9:30 AM				
	Maria	defined surfaces for electrocatalysis	30	3656705

		Ordering at metal oxide-aqueous electrolyte light		
10:30 AM	Thornton, Geoffrey	harvesting interfaces	30	3653827
11:00 AM	De Yoreo, James	Nucleation and self-assembly at solid-liquid interfaces	30	3656220
11:30 AM	Kimmel, Greg	Structure and dynamics of deeply supercooled water	30	3657518
Monday 3/21/2022	Oral - Hybrid	ACS Award in Surface Chemistry 2022: Symposium in honor of Miquel Salmeron Atomic-scale friction properties of two-dimensional	Room 23A (SDCC)	COLL009C
2:00 PM	Park, Jeong Young	intercalated water layers  Molecular design of polymer-brush-forming lubricant	30	3658364
2:30 PM	Spencer, Nicholas	additives Seeing the hidden interface: Revealing nanoscale	30	3650780
3:00 PM	Carpick, Robert	mechanisms of contact, adhesion, and friction by in situ experiments Physical and chemical origins of friction on two-	30	3661417
3:30 PM	Kim, Seong	dimensionally flat surface with atomic steps	30	3661679
4:00 PM	Maier, Sabine	On-surface synthesis: A versatile bottom-up strategy to low-dimensional carbon-based nanostructures  Ambient pressure XPS applied to the atomic layer	30	3658452
4:30 PM	Schnadt, Joachim	deposition of HfO2 on InAs: Oxygen relocation during HfO2 ALD on native and thermal oxides of InAs Atomic force microscopy images carry key chemical	30	3656675
5:00 PM	Perez, Ruben	information: Halogen bonds, tautomerization, and molecular identification with deep learning Unraveling the atomic-scale properties of metallic	30	3654197
5:30 PM	Schwarz, Udo	glasses	30	3659770
Monday 3/21/2022	Oral - Hybrid	Colloid, Nanomaterial, and Interface Chemistry Research at Primarily Undergraduate Institutions	Room 23B (SDCC)	COLL010C
3,21,2022	Oral Hybria	Manipulating boric acid crosslinking in polyvinyl alcohol	(SDCC)	COLLOTOC
8:00 AM	Peters, Gretchen	organogels Fast-disintegrating oral drug delivery system based on	30	3652261
8:30 AM	Dash, Kareena	naproxen/cyclodextrin inclusion complex nanofibers Ondansetron/cyclodextrin inclusion complex electrospun nanofibers for fast-disintegrating drug	20	3653170
8:50 AM	Hsiung, Emmy	delivery Study and synthesis of gold nanoparticles and nanorods	20	3653161
9:10 AM	Rodriguez, Dinora	for photothermal therapy  Developing a paradigm of surface interactions of	20	3661486
9:45 AM	Feng, Vivian	nanomaterials with biosurfaces α1-Acid glycoprotein decorated hyaluronic acid	30	3657466
10:15 AM	Omar, Haneen	nanoparticles for suppressing metastasis and overcoming drug resistance breast cancer Efficiency improvement of green catalytic synthesis of	30	3656947
10:45 AM	Liu, Jingbo	ammonia using solid oxide electrolysis cells	30	3647251
Monday	Owel Hisbaria	Calleidal Namanantiala Conthasia and Assaushly	Room 23B	
3/21/2022	Oral - Hybrid	Colloidal Nanoparticle Synthesis and Assembly Design and synthesis of chiroptically active gold	(SDCC)	COLL021D
2:00 PM	Googasian, Jack	nanoparticles Formaiton mechanism of nanoparticle by in situ/liquid	20	3656447
2:20 PM	Park, Jungwon	TEM Shape control of colloidal semiconductor nanocrystals	20	3656197
2:40 PM	Zamkov, Mikhail	through thermodynamically: Driven aggregative growth Stimuli-sensitive ligands for direct lithography of	20	3654840
3:00 PM	Pan, Jia-Ahn	functional inorganic nanomaterials Enhancing the scope of metal oxide nanoparticles via	20	3654821
3:30 PM	Medhi, Riddhiman	doping and plasmonic coupling	20	3652184

3:50 PM	Solti, David	Mechanisms for anisotropic growth of aluminum nanocrystals Colloidal synthesis and charge carrier dynamics of Cs4Cd1-xCuxSb2Cl12 ( $0 \le x \le 1$ ) layered double	20	3650515
4:10 PM	Cai, Tong	perovskite nanocrystals Systematically mapping the morphology and nanoscale	20	3647260
4:30 PM	Johnson, Hannah	distributions of gold and silver in bimetallic alloy nanoparticles	20 Room	3661892
Monday			20BCD Theater 4	
3/21/2022	Oral - In-person	Nanomaterials	(SDCC)	COLL012D
2 22 214		Nanoparticle assembly in high polymer concentration		
2:00 PM	Lee, Margaret	solutions increases superlattice stability Upconversion nanoparticles coated with phosphonate-	20	3644257
2:20 PM	Malhotra, Karan	based polymers have long-term colloidal stability in aqueous buffers	20	3649720
2.2011	Wallotta, Karali	Pluronics-based nanomaterials for self-assembled	20	3049720
2:40 PM	Thedford, Randal	mesoporous superconductors	20	3655465
		Explosive percolation produces highly-conductive		
3:00 PM	Large, Matthew	polymer nanocomposites	20	3656857
		An alternating copolymer exhibiting the microphase-		
3:20 PM	Sakurai, Kazuo	structure transition from ultrathin plate to unimeric sphere	20	3657883
3.2011	Sakarai, Kazao	Reversible martensitic phase transitions in 3D	20	3037883
3:40 PM	Yee, Daryl	nanoparticle superlattices	20	3651372
		Tuning the structure direction of resols by ultra-large		
		molar mass linear diblock copolymers with a binary		
4 20 514	T :: \A#!!!	solvent system: A pathway to carbons with ultra-large,		
4:20 PM	Tait, William	co-continuous pore spaces	20	3660062
4:40 PM	ZHOU, YIFAN	Geometry-directed self-recognition in giant amphiphiles	20	3662247
5:00 PM	Pitcher, Mica	Colloidal engineering of cellulose nanocrystal redispersibility in aqueous media	20	2661225
3.00 F W	Fitcher, whica	Photosensitizer encryption in macrocycles with	20	3661335
5:20 PM	Payne, Daniel	aggregation enhanced singlet oxygen production	20	3662078
	,	Enhancing the optical properties of magic-sized		
5:40 PM	Pun, Andrew	nanocrystals	20	3660522
			Room 20BCD	
Monday			Theater 5	
3/21/2022	Oral - In-person	Basic Research in Colloids, Surfactants and Interfaces	(SDCC)	COLL018C
		Structural characterization of mixed micelles formed by ionic surfactants and nonionic polymers in in aqueous		
8:00 AM	Alexandridis, Paschalis	solutions	20	3662253
8:20 AM	Webley, Ann-Dorie	Local distribution of limonene in phospholipid vesicles		
6.20 AIVI	Webley, Allif-Dolle	Investigation of lipid self-assembly in the presence of	20	3660249
8:40 AM	Lee, Jessica	liquid-liquid phase separation	20	3645397
	,	Synergistic adsorptive behavior of catanionic		
9:00 AM	Jones, Konnor	surfactants at the oil-water interface	20	3649670
9:20 AM	Ruths, Marina	Friction of fatty acid systems at different sliding speeds	20	3656604
		Steric and molecular bonding effects at the surfaces of		
10:00 AM	Tran, Emma	uncharged surfactant and polymer-coated emulsions	20	3652620
10:20 AM	Amirfattahi, Saba	Phase study of bicontinuous interfacially jammed emulsion gels (bijel) via solvent transfer	30	265 477 4
10.20 AIVI	Alliliatialli, Saba	Model for simulations of the CnEm nonionic surfactant	20	3654774
10:40 AM	Swope, William	family derived from recent experimental results	20	3662090
	•	•		

		Molecular simulations of structure and dynamics of poly-(acrylic acid) and non-ionic surfactant in aqueous solutions: Pentaethylene glycol n-octyl ether (C8E5) and		
11:00 AM	Natarajan, Upendra	hexaethylene glycol n-dodecyl ether (C12E6) Chiral selective transport of amino acids through	20	3669350
11:40 AM	Lee, Yohan	protein nanopores	20	3639359
Monday	Oral In norsan	Callaidal Nananartiala Synthasis and Assambly	Room 23C	60110246
3/21/2022	Oral - In-person	Colloidal Nanoparticle Synthesis and Assembly One pot solution phase synthesis of colloidal CrGeTe3	(SDCC)	COLL021C
8:00 AM	Parobek, David	nanoplatelets	20	3660792
		Manipulating color characteristics via x-ray induced		
		sequential Förster resonance energy transfer and a		
8:20 AM	Jones Halov	photonic bandgap in a radioluminescent crystalline	20	2660540
6.20 AIVI	Jones, Haley	colloidal array In-situ electron microscopy to inform superior magnetic	20	3660510
8:40 AM	Watt, John	nanomaterials	20	3659025
		Nanomaterial enhanced photonic colloidal crystals as		
9:10 AM	Waters, Thomas	colorimetric time temperature indicators	20	3658646
0.20 414	7hau Chan	Self-assemblies of gold tetrahedra with unconventional	20	2657702
9:30 AM	Zhou, Shan	symmetry breaking Directed covalent assembly of functionalized iron oxide	20	3657783
9:50 AM	Al-Husseini, Jacob	nanoparticles into monolayer thin films	20	3656852
		Synthesis and assembly of rod-shaped silica colloids into		
10:10 AM	Al Harraq, Ahmed	spherical shells	20	3656816
Monday 3/21/2022	Oral - In-person	Colloidal Hybrid Materials Intended for Biological Applications	Room 24A (SDCC)	COLL025E
8:00 AM	He, Qilin	Polymer-based photonic microparticles	20	3657434
0.20 484	Matternal Hadi	Evaluating the enzymatic activity of the breast cancer		
8:20 AM	Mattoussi, Hedi	marker MMP-14 using AuNP-peptide-dye conjugates Enzymatic surface functionalization of nanoparticles for	20	3657704
9:00 AM	Perez Rafael, Silvia	building blocks in nanocomposite hydrogels	20	3658019
	, , , , , , , , , , , , , , , , , , , ,	Adsorption behavior of chemically/charged modified		
9:20 AM	Driskell, Jeremy	antibody on gold nanoparticles	20	3658406
0.40.484		Secondary packaging of nanoparticles for enhanced		
9:40 AM	Joo, Jinmyoung	intracellular trafficking  Multifunctional contrast agent for 19F-based magnetic	20	3658500
10:00 AM	Mattoussi, Hedi	resonance imaging	30	3657743
	,	Peptide amphiphile coating of gold nanorods: Ordered,		
		dense coatings promote stability and facilitate in vivo		
10:30 AM	Kros, Alexander	two-photon imaging	30	3658453
11:00 AM	Sharma, Shubham	Vortex assisted precipitation dynamics of acoustically levitated saline droplet	20	2650500
11.00 AW	Silailila, Silubilaili	Shaped nanoparticles with enhanced antimicrobial	20	3658598
11:20 AM	Puertas, Antonio	features.	20	3658912
		Morphological effects of gold nanoparticle cytotoxicity		
11:40 AM	Jenkins, Samir	induced by ionizing and visible radiation	20	3659305
Monday 3/21/2022	Oral - In-person	Colloidal Hybrid Materials Intended for Biological Applications	Room 24A (SDCC)	COLL025G
0/ 21/ 2022	Ordin in person	Self-assembled hybrid multilamellar vesicles of	(3000)	COLLUZJU
		phospholipids and block copolymers for efficacious		
2:00 PM	Kambar, Nurila	delivery of insoluble drugs to cells	20	3659319
		Reversing epithelial-mesenchymal transition in		
2:20 PM	Wang, Congzhou	metastatic cancer cells using engineered black phosphorus nanosheets and a mild photothermal effect	20	3659874
2.2011		Engineering and validation of peptide-stabilized	20	3033074
2:40 PM	Mieszawska, Aneta	nanomaterials for drug delivery and cancer therapy	20	3660409

		Antibody coated polymersomes with encapsulated indocyanine green J-aggregates for photoacoustic		
3:00 PM	Kawelah, Mohammed	cancer imaging Designing biodegradable inorganic nanoparticles for	20	3661518
3:20 PM	Dennis, Allison	optical applications in biomedicine Lifetime tunable type II "giant" quantum dot imaging	20	3662539
3:40 PM	Snee, Preston	agents	30	3660635
4:10 PM	Hubbard, Mische	Antibiofilm activity of chiral graphene nanoparticles Biomimetic synthesis of versatile biodegradable polyethylenimine/calcium phosphate micro-	30	3661697
4:40 PM	he, tengyu	/nanostructures for transient ultrasound imaging Synthesis, surface modification and environmental	20	3661982
5:00 PM	Sengupta, Shreyasi	impact of InSe 2D nanomaterials	20	3662515
			Room 20BCD	
Monday 3/21/2022	Oral - In-person	Frontiers and Challenges in Nanoparticle-Mediated Chemical Transformations	Theater 5 (SDCC)	COLL032A
3/21/2022	Oral - III-person	Activation of supported cobalt oxide nanoparticles for	(SDCC)	COLLUSZA
2:00 PM	Li, Gonghu	solar CO2 reduction	30	3656110
		Unraveling the mystery of poly(vinylpyrrolidone) in		
		stabilizing and capping colloidal silver nanocrystals by		
2:30 PM	Qin, Dong	spectroscopy fingerprinting	30	3641091
		Impact of surface ligand coverage on ionization		
3:00 PM	Spanedda, Nicole	potential of semiconductor nanoparticles	20	3655718
2.20 DM	Murphy Cathorina	Mixing it up in colloidal gold nanocrystals: Some minor	20	2650574
3:20 PM	Murphy, Catherine	catalytic insights  Joint experimental and DFT-based studies of the surface	30	3650574
		properties of colloidal ultra-small Ruthenium		
4:10 PM	Poteau, Romuald	nanoparticles	20	3660453
	r occaa, nomaara	Basal surface functionalization of redox exfoliated	20	3000433
4:30 PM	Jawaid, Ali	group V LTMDs	30	3658502
	•	Size of Pd ensemble and entropic effects govern HD		
		exchange kinetics over dilute Pd-in-Au alloy		
5:00 PM	Sautet, Philippe	nanoparticle catalysts	30	3659771
Monday		PUNC: Nanomaterials Research at Primarily	Room 23C	
3/21/2022	Oral - In-person	Undergraduate Institutions	(SDCC)	COLL040A
		Introducing PUNC: The primarily undergraduate		
2:00 PM	Hughes, Steven	nanomaterials cooperative	20	3657200
2 20 514		Zinc oxide: A catalyst for photo-oxidation reactions and		
2:20 PM	St Angelo, Sarah	undergraduate research Microwave-assisted synthesis of non-precious	20	3661128
2:40 PM	Njoki, Peter	bimetallic nanoparticles	20	3656460
2.401111	NJOKI, I CICI	Identifying intermediates formed during a ZnSe	20	3030400
3:00 PM	Munro, Andrea	nanorod heat-up synthesis	20	3659300
	,	Defect-facilitated anion exchange of copper		
3:35 PM	Plass, Katherine	chalcogenide nanorods	20	3661349
		Synthesis of single-source precursors and their		
3:55 PM	Hendricks, Mark	conversion to zinc sulfide nanocrystals	20	3661510
		Tetrahedrite nanomaterials for thermoelectrics:		
		Synthetic versatility, reaction pathway, and thermal		
4:15 PM	Anderson, Mary	stability	20	3660738
		Search for molecular corks beyond carbon monoxide: A		
4:35 PM	Simpson Scatt	quantum mechanical study of N-Heterocyclic carbene adsorption on single atom alloys (SAAs)	20	20504.44
4.33 PIVI	Simpson, Scott	Role of human serum and solution chemistry in	20	3650141
4:55 PM	Wheeler, Korin	fibrinogen peptide–nanoparticle interactions	20	3657109
7.551 101	TTHECICI, NOTH	marmagen peptide nanoparticle interdetions	20	303/103

			Zoom	
Monday 3/21/2022	Oral - Virtual	Biomembrane Synthesis, Structure, Mechanics, and Dynamics	Room 7 (Virtual Room)	COLL004C
3, ==, ===	O. a. Th. Caa.	Dramatic influence of vesicle size on shape and	noonij	COLLOGIC
10:00 AM	Santore, Maria	morphology of compact solid domains Sterol conjugated lipids results in improved liposomal	25	3659652
10:25 AM	Kumarage, Teshani	stability  Dysregulation of integrin function and actin	25	3657438
10:50 AM	Trache, Andreea	cytoskeleton in aged vascular smooth muscle cells Effect of cholesterol on the elastic and viscous	25	3656931
11:15 AM	Shih, Kuo-Chih	properties of saturated lipid bilayers: A neutron spin Echo study	25	3647121
11:40 AM	Gawrisch, Klaus	Kinetics of rhodopsin-transducin interaction: Functional characterization and SANS	25	3660729
12:05 PM	Naumann, Christoph	Polymer gel-tethered lipid bilayer (PGTB): A cell surface mimetic of adjustable viscoelasticity	25	3652525
12:30 PM	Chuduana Kridnut	Assembly and characterization of polymer gel-tethered lipid bilayer (PGTB)	25	2652405
12:30 PIVI	Chuduang, Kridnut	lipid bilayer (PGTB)	25 Zoom	3652495
Monday		Biomembrane Synthesis, Structure, Mechanics, and	Room 7	
3/21/2022	Oral - Virtual	Dynamics	(Virtual Room)	COLL004D
3/21/2022	Ordi Virtual	Lipid droplets as flexible biological substrates for	Roomj	COLLU04D
3:00 PM	Gil, Daniel	disordered protein condensation and assembly	25	3649673
	,	Intrinsically disordered proteins generate steric		
3:25 PM	Houser, Justin	pressure through polymer-like crowding	25	3649155
		Balance of attractive and repulsive forces controls the		
		direction of membrane bending by intrinsically		
3:50 PM	Yuan, Feng	disordered proteins	25	3656955
	- " " - "	Impact of glycosylation on uptake of receptors by		
4:15 PM	Gollapudi, Sadhana	endocytosis	25	3649703
4:40 PM	Schneider, Gerald	Dynamics of membrane model systems	25	3658657
		Selective nanoscale pores in liposomes by a		
E.OE DNA	M/impless M/illinum	synthetically evolved peptide: Implications for triggered		
5:05 PM	Wimley, William	release Influence of substrate composition on nanoparticle and	25	3657629
5·30 PM	Lochbaum, Christian	protein interaction with supported lipid bilayers	25	3637597
3.30 T W	Locindadiii, Ciiristiaii	protein interaction with supported lipid bilayers	25 Zoom	3037397
Monday			Room 19	
3/21/2022	Oral - Virtual	Nanomaterials	(Virtual Room)	COLL012C
3, 21, 2022	Ordi Virtual	Optimizing the T2 relaxation dynamics of iron oxide	Roomj	COLLUIZC
		nanocrystals for the rational design of advanced MRI		
10:00 AM	Villanova, Jake	contrast agents: size and surface engineering	20	3650208
		Tetraalkylammonium halide-functionalized perovskite		
		nanocrystals for highly enhanced long-term stability and		
10:20 AM	Ryu, Han Jung	controlled photoluminescence	20	3647446
		Fabrication of novel cellulose acetate hybrid nanofibers		
44.00.444	Canga, Emine Merve	to enhance the viability of probiotics in the		
11:20 AM	Dudak, Fahriye Ceyda	gastrointestinal tract	20	3650101
12.00 084	Pahamanda Janira	Role of functional groups in drug loading capacity of	22	2054542
12:00 PM	Bahamonde, Janire	Zein nano-drug delivery systems	20 Virtual	3651542
Monday		Colloid, Nanomaterial, and Interface Chemistry	Room	
3/21/2022	Poster - Virtual	Research at Primarily Undergraduate Institutions	(Zoom)	COLL011A
12:00 PM	Kazakov, Sergey	Lipobeads in the presence of reducing agents: Kinetics of degradation	0	3655669

12:00 PM	Zhang, Fengfan	Study on the preparation of two-dimensional magnetic response nanoparticles		0	3657636
		Effect of variation of nanoparticle concentration on			
12:00 PM	Halder, Krishna	protein corona formation	Virtual	0	3658213
Monday			Room		
3/21/2022	Poster - Virtual	Nanomaterials	(Zoom)		COLL013A
		Nano-emulsion/Nano-suspension as precursors for oral			
12.00 DM	Vang Vuan	dissolvable films to enhance bioavailability for poorly		^	2650442
12:00 PM	Yang, Yuan	water-soluble drugs Surface passivation of Ge1-xSnx nanocrystals by silica		0	3650412
12:00 PM	Spera, Drew	coating		0	3651389
12.001101	Spera, Drew	One-pot large-scale synthesis of polymer-capped		U	3031369
12:00 PM	Kim, Yoon Hyuck	plasmonic nanoparticles in a deep eutectic solvent		0	3651713
	, ,	Expanding chemical versatility of Ge1–x Snx			
		nanocrystals for the fabrication of thin films with high			
12:00 PM	Barbieri, Rachel	electrical conductivity and tunable energy gaps		0	3654811
		Facile synthesis of ferromagnetic single crystal VS2 by			
12:00 PM	Chiu, Sheng-Kuei	chemical vapor deposition		0	3656610
		Solid-phase copper-curcumin nanocomposites: Novel			
12:00 PM	Nair, Shweta	synthetic method and antibacterial activity		0	3659145
Monday			Virtual Room		
3/21/2022	Poster - Virtual	Surface Chemistry	(Zoom)		COLL015A
		AFM-IR spectroscopy as a tool to probe micro and			
		nanoscale heterogeneities within environmental films			
		containing organic matter, biological components,			
12:00 PM	Kim, Deborah	oxyanions, and minerals		0	3649742
		Structure and reactivity of metal-supported ultrathin			
12:00 PM	LI, LINFEI	iron oxides		0	3656599
		Self-assembled metal ion incorporated poly vinyl			
12.00 DN/	M Sai Kiran	alcohol hydrogel beads for fluoride removal from			2650204
12:00 PM	M, Sai Kiran	alcohol hydrogel beads for fluoride removal from groundwater		0	3658384
12:00 PM 12:00 PM	M, Sai Kiran Singh, Britney	alcohol hydrogel beads for fluoride removal from	Virtual	0	3658384 3677997
	•	alcohol hydrogel beads for fluoride removal from groundwater	Virtual Room		
12:00 PM	•	alcohol hydrogel beads for fluoride removal from groundwater Investigating the effects of force and speed on reactions  Biomaterials and Biointerfaces			
12:00 PM Monday	Singh, Britney	alcohol hydrogel beads for fluoride removal from groundwater Investigating the effects of force and speed on reactions  Biomaterials and Biointerfaces Probing morphology and orientation of VOC binding	Room		3677997
12:00 PM Monday 3/21/2022	Singh, Britney  Poster - Virtual	alcohol hydrogel beads for fluoride removal from groundwater Investigating the effects of force and speed on reactions  Biomaterials and Biointerfaces Probing morphology and orientation of VOC binding peptides at biotic/abiotic surfaces using near-edge X-ray	Room	0	3677997 COLL017A
12:00 PM Monday	Poster - Virtual sant'anna, gustavo	alcohol hydrogel beads for fluoride removal from groundwater Investigating the effects of force and speed on reactions  Biomaterials and Biointerfaces Probing morphology and orientation of VOC binding peptides at biotic/abiotic surfaces using near-edge X-ray absorption fine-structure spectroscopy	Room		3677997
12:00 PM Monday 3/21/2022 12:00 PM	Poster - Virtual  sant'anna, gustavo Hart, Lucy   Banerjee,	alcohol hydrogel beads for fluoride removal from groundwater Investigating the effects of force and speed on reactions  Biomaterials and Biointerfaces Probing morphology and orientation of VOC binding peptides at biotic/abiotic surfaces using near-edge X-ray absorption fine-structure spectroscopy In silico studies of novel peptide-based bolaamphiphiles	Room	0	3677997 COLL017A 3646197
12:00 PM Monday 3/21/2022	Poster - Virtual sant'anna, gustavo	alcohol hydrogel beads for fluoride removal from groundwater Investigating the effects of force and speed on reactions  Biomaterials and Biointerfaces Probing morphology and orientation of VOC binding peptides at biotic/abiotic surfaces using near-edge X-ray absorption fine-structure spectroscopy In silico studies of novel peptide-based bolaamphiphiles for potential applications engineering of cartilage	Room	0	3677997 COLL017A
12:00 PM Monday 3/21/2022 12:00 PM 12:00 PM	Poster - Virtual  sant'anna, gustavo Hart, Lucy   Banerjee, Ipsita	alcohol hydrogel beads for fluoride removal from groundwater Investigating the effects of force and speed on reactions  Biomaterials and Biointerfaces Probing morphology and orientation of VOC binding peptides at biotic/abiotic surfaces using near-edge X-ray absorption fine-structure spectroscopy In silico studies of novel peptide-based bolaamphiphiles for potential applications engineering of cartilage Cyanuric chloride-based reactive dyeing treatment of	Room	0 0	3677997 COLL017A 3646197 3650716
12:00 PM Monday 3/21/2022 12:00 PM 12:00 PM 12:00 PM	Poster - Virtual  sant'anna, gustavo Hart, Lucy   Banerjee,	alcohol hydrogel beads for fluoride removal from groundwater Investigating the effects of force and speed on reactions  Biomaterials and Biointerfaces Probing morphology and orientation of VOC binding peptides at biotic/abiotic surfaces using near-edge X-ray absorption fine-structure spectroscopy In silico studies of novel peptide-based bolaamphiphiles for potential applications engineering of cartilage	Room	0	3677997 COLL017A 3646197
12:00 PM Monday 3/21/2022 12:00 PM 12:00 PM 12:00 PM Monday	Poster - Virtual  sant'anna, gustavo Hart, Lucy   Banerjee, Ipsita  Tang, Ruogu	alcohol hydrogel beads for fluoride removal from groundwater Investigating the effects of force and speed on reactions  Biomaterials and Biointerfaces Probing morphology and orientation of VOC binding peptides at biotic/abiotic surfaces using near-edge X-ray absorption fine-structure spectroscopy In silico studies of novel peptide-based bolaamphiphiles for potential applications engineering of cartilage Cyanuric chloride-based reactive dyeing treatment of cellulosic fibers with antimicrobial functions	Room (Zoom) Virtual Room	0 0	3677997 COLL017A 3646197 3650716 3651751
12:00 PM Monday 3/21/2022 12:00 PM 12:00 PM 12:00 PM	Poster - Virtual  sant'anna, gustavo Hart, Lucy   Banerjee, Ipsita	alcohol hydrogel beads for fluoride removal from groundwater Investigating the effects of force and speed on reactions  Biomaterials and Biointerfaces Probing morphology and orientation of VOC binding peptides at biotic/abiotic surfaces using near-edge X-ray absorption fine-structure spectroscopy In silico studies of novel peptide-based bolaamphiphiles for potential applications engineering of cartilage Cyanuric chloride-based reactive dyeing treatment of cellulosic fibers with antimicrobial functions  Basic Research in Colloids, Surfactants and Interfaces	Room (Zoom)	0 0	3677997 COLL017A 3646197 3650716
12:00 PM Monday 3/21/2022 12:00 PM 12:00 PM 12:00 PM Monday	Poster - Virtual  sant'anna, gustavo Hart, Lucy   Banerjee, Ipsita  Tang, Ruogu	alcohol hydrogel beads for fluoride removal from groundwater Investigating the effects of force and speed on reactions  Biomaterials and Biointerfaces Probing morphology and orientation of VOC binding peptides at biotic/abiotic surfaces using near-edge X-ray absorption fine-structure spectroscopy In silico studies of novel peptide-based bolaamphiphiles for potential applications engineering of cartilage Cyanuric chloride-based reactive dyeing treatment of cellulosic fibers with antimicrobial functions  Basic Research in Colloids, Surfactants and Interfaces Preparation of silanized cardboard samples and	Room (Zoom) Virtual Room	0 0	3677997 COLL017A 3646197 3650716 3651751
12:00 PM Monday 3/21/2022 12:00 PM 12:00 PM 12:00 PM Monday 3/21/2022	Poster - Virtual  sant'anna, gustavo Hart, Lucy   Banerjee, Ipsita  Tang, Ruogu  Poster - Virtual	alcohol hydrogel beads for fluoride removal from groundwater Investigating the effects of force and speed on reactions  Biomaterials and Biointerfaces Probing morphology and orientation of VOC binding peptides at biotic/abiotic surfaces using near-edge X-ray absorption fine-structure spectroscopy In silico studies of novel peptide-based bolaamphiphiles for potential applications engineering of cartilage Cyanuric chloride-based reactive dyeing treatment of cellulosic fibers with antimicrobial functions  Basic Research in Colloids, Surfactants and Interfaces Preparation of silanized cardboard samples and characterization of their surface properties and	Room (Zoom) Virtual Room	0 0 0	3677997  COLL017A  3646197  3650716  3651751  COLL019A
12:00 PM Monday 3/21/2022 12:00 PM 12:00 PM 12:00 PM Monday	Poster - Virtual  sant'anna, gustavo Hart, Lucy   Banerjee, Ipsita  Tang, Ruogu	alcohol hydrogel beads for fluoride removal from groundwater Investigating the effects of force and speed on reactions  Biomaterials and Biointerfaces Probing morphology and orientation of VOC binding peptides at biotic/abiotic surfaces using near-edge X-ray absorption fine-structure spectroscopy In silico studies of novel peptide-based bolaamphiphiles for potential applications engineering of cartilage Cyanuric chloride-based reactive dyeing treatment of cellulosic fibers with antimicrobial functions  Basic Research in Colloids, Surfactants and Interfaces Preparation of silanized cardboard samples and characterization of their surface properties and hydrocarbon adsorption isotherms	Room (Zoom) Virtual Room	0 0	3677997 COLL017A 3646197 3650716 3651751
12:00 PM Monday 3/21/2022  12:00 PM 12:00 PM 12:00 PM Monday 3/21/2022	Poster - Virtual  sant'anna, gustavo Hart, Lucy   Banerjee, Ipsita  Tang, Ruogu  Poster - Virtual  Kim, Joonyeong	alcohol hydrogel beads for fluoride removal from groundwater Investigating the effects of force and speed on reactions  Biomaterials and Biointerfaces Probing morphology and orientation of VOC binding peptides at biotic/abiotic surfaces using near-edge X-ray absorption fine-structure spectroscopy In silico studies of novel peptide-based bolaamphiphiles for potential applications engineering of cartilage Cyanuric chloride-based reactive dyeing treatment of cellulosic fibers with antimicrobial functions  Basic Research in Colloids, Surfactants and Interfaces Preparation of silanized cardboard samples and characterization of their surface properties and hydrocarbon adsorption isotherms Synergistic effects of silica nanoparticles and	Room (Zoom) Virtual Room	0 0 0 0	3677997  COLL017A  3646197  3650716  3651751  COLL019A  3641424
12:00 PM Monday 3/21/2022 12:00 PM 12:00 PM 12:00 PM Monday 3/21/2022	Poster - Virtual  sant'anna, gustavo Hart, Lucy   Banerjee, Ipsita  Tang, Ruogu  Poster - Virtual	alcohol hydrogel beads for fluoride removal from groundwater Investigating the effects of force and speed on reactions  Biomaterials and Biointerfaces Probing morphology and orientation of VOC binding peptides at biotic/abiotic surfaces using near-edge X-ray absorption fine-structure spectroscopy In silico studies of novel peptide-based bolaamphiphiles for potential applications engineering of cartilage Cyanuric chloride-based reactive dyeing treatment of cellulosic fibers with antimicrobial functions  Basic Research in Colloids, Surfactants and Interfaces Preparation of silanized cardboard samples and characterization of their surface properties and hydrocarbon adsorption isotherms Synergistic effects of silica nanoparticles and nanosurfactant in high salinity water	Room (Zoom) Virtual Room	0 0 0	3677997  COLL017A  3646197  3650716  3651751  COLL019A
12:00 PM Monday 3/21/2022  12:00 PM 12:00 PM 12:00 PM Monday 3/21/2022	Poster - Virtual  sant'anna, gustavo Hart, Lucy   Banerjee, Ipsita  Tang, Ruogu  Poster - Virtual  Kim, Joonyeong	alcohol hydrogel beads for fluoride removal from groundwater Investigating the effects of force and speed on reactions  Biomaterials and Biointerfaces Probing morphology and orientation of VOC binding peptides at biotic/abiotic surfaces using near-edge X-ray absorption fine-structure spectroscopy In silico studies of novel peptide-based bolaamphiphiles for potential applications engineering of cartilage Cyanuric chloride-based reactive dyeing treatment of cellulosic fibers with antimicrobial functions  Basic Research in Colloids, Surfactants and Interfaces Preparation of silanized cardboard samples and characterization of their surface properties and hydrocarbon adsorption isotherms Synergistic effects of silica nanoparticles and nanosurfactant in high salinity water Extended hydrogen bonding through protic ionic liquids	Room (Zoom) Virtual Room	0 0 0 0	3677997  COLL017A  3646197  3650716  3651751  COLL019A  3641424
12:00 PM Monday 3/21/2022  12:00 PM 12:00 PM 12:00 PM Monday 3/21/2022	Poster - Virtual  sant'anna, gustavo Hart, Lucy   Banerjee, Ipsita  Tang, Ruogu  Poster - Virtual  Kim, Joonyeong Al-Sadeg, Hala	alcohol hydrogel beads for fluoride removal from groundwater Investigating the effects of force and speed on reactions  Biomaterials and Biointerfaces Probing morphology and orientation of VOC binding peptides at biotic/abiotic surfaces using near-edge X-ray absorption fine-structure spectroscopy In silico studies of novel peptide-based bolaamphiphiles for potential applications engineering of cartilage Cyanuric chloride-based reactive dyeing treatment of cellulosic fibers with antimicrobial functions  Basic Research in Colloids, Surfactants and Interfaces Preparation of silanized cardboard samples and characterization of their surface properties and hydrocarbon adsorption isotherms Synergistic effects of silica nanoparticles and nanosurfactant in high salinity water Extended hydrogen bonding through protic ionic liquids facilitates the growth and stability of water domains in	Room (Zoom) Virtual Room	0 0 0 0	3677997  COLL017A  3646197  3650716  3651751  COLL019A  3641424
12:00 PM Monday 3/21/2022  12:00 PM 12:00 PM 12:00 PM Monday 3/21/2022  12:00 PM 12:00 PM	Poster - Virtual  sant'anna, gustavo Hart, Lucy   Banerjee, Ipsita  Tang, Ruogu  Poster - Virtual  Kim, Joonyeong	alcohol hydrogel beads for fluoride removal from groundwater Investigating the effects of force and speed on reactions  Biomaterials and Biointerfaces Probing morphology and orientation of VOC binding peptides at biotic/abiotic surfaces using near-edge X-ray absorption fine-structure spectroscopy In silico studies of novel peptide-based bolaamphiphiles for potential applications engineering of cartilage Cyanuric chloride-based reactive dyeing treatment of cellulosic fibers with antimicrobial functions  Basic Research in Colloids, Surfactants and Interfaces Preparation of silanized cardboard samples and characterization of their surface properties and hydrocarbon adsorption isotherms Synergistic effects of silica nanoparticles and nanosurfactant in high salinity water Extended hydrogen bonding through protic ionic liquids	Room (Zoom) Virtual Room	0 0 0 0 0	3677997  COLL017A  3646197  3650716  3651751  COLL019A  3641424  3644314
12:00 PM Monday 3/21/2022  12:00 PM 12:00 PM 12:00 PM Monday 3/21/2022  12:00 PM 12:00 PM	Poster - Virtual  sant'anna, gustavo Hart, Lucy   Banerjee, Ipsita  Tang, Ruogu  Poster - Virtual  Kim, Joonyeong Al-Sadeg, Hala  BANERJEE, SHANKHA	alcohol hydrogel beads for fluoride removal from groundwater Investigating the effects of force and speed on reactions  Biomaterials and Biointerfaces Probing morphology and orientation of VOC binding peptides at biotic/abiotic surfaces using near-edge X-ray absorption fine-structure spectroscopy In silico studies of novel peptide-based bolaamphiphiles for potential applications engineering of cartilage Cyanuric chloride-based reactive dyeing treatment of cellulosic fibers with antimicrobial functions  Basic Research in Colloids, Surfactants and Interfaces Preparation of silanized cardboard samples and characterization of their surface properties and hydrocarbon adsorption isotherms Synergistic effects of silica nanoparticles and nanosurfactant in high salinity water Extended hydrogen bonding through protic ionic liquids facilitates the growth and stability of water domains in	Room (Zoom) Virtual Room	0 0 0 0 0	3677997  COLL017A  3646197  3650716  3651751  COLL019A  3641424  3644314
12:00 PM Monday 3/21/2022  12:00 PM 12:00 PM 12:00 PM Monday 3/21/2022  12:00 PM 12:00 PM	Poster - Virtual  sant'anna, gustavo Hart, Lucy   Banerjee, Ipsita  Tang, Ruogu  Poster - Virtual  Kim, Joonyeong Al-Sadeg, Hala  BANERJEE, SHANKHA Arora, Jayati   Ranjan,	alcohol hydrogel beads for fluoride removal from groundwater Investigating the effects of force and speed on reactions  Biomaterials and Biointerfaces Probing morphology and orientation of VOC binding peptides at biotic/abiotic surfaces using near-edge X-ray absorption fine-structure spectroscopy In silico studies of novel peptide-based bolaamphiphiles for potential applications engineering of cartilage Cyanuric chloride-based reactive dyeing treatment of cellulosic fibers with antimicrobial functions  Basic Research in Colloids, Surfactants and Interfaces Preparation of silanized cardboard samples and characterization of their surface properties and hydrocarbon adsorption isotherms Synergistic effects of silica nanoparticles and nanosurfactant in high salinity water Extended hydrogen bonding through protic ionic liquids facilitates the growth and stability of water domains in hydrophobic environment	Room (Zoom) Virtual Room	0 0 0 0 0	3677997  COLL017A  3646197  3650716  3651751  COLL019A  3641424  3644314

Monday		Fundamental Research in Colloids, Surfaces and	Virtual Room		
3/21/2022	Poster - Virtual	Nanomaterials	(Zoom)		COLL020A
12:00 PM	Feng, Liang xiong, yilin   Shen, Hao	Mechanisorption		0	3642935
12:00 PM	Dong, Zhaoxia   Yang, Zihao	Novel amphiphilic Janus nanosheets for good stability in formation brine Introducing a new method for measuring the polar and		0	3646239
		dispersive components of the surface energy of			
12:00 PM	Honciuc, Andrei	nanoparticles  Modelling optical properties of anisotropic gold		0	3650828
12:00 PM	Sifuentes, Jorge	nanoparticles		0	3651312
12:00 PM	Hui, Carly	Improved scalability of palladium nanocrystal synthesis Characterization of colloidal nanoparticles by DLS—a		0	3652537
12:00 PM	Farkas, Natalia	word of caution  Host targeted multifunctional nano-therapy for		0	3652724
12:00 PM	Patel, Unnatiben	eradication of intracellular bacterial infection Effects of polymer block length asymmetry and		0	3653106
		temperature on the nanoscale morphology of thermoresponsive double hydrophilic block copolymers			
12:00 PM	Vagias, Apostolos	in aqueous solutions		0	3653569
12:00 PM	Diroll, Benjamin	Intraband optical gain in colloidal nanoplates		0	3654360
12:00 PM	Flanagan, John   Banerjee, Ipsita	Interactions of neuronal proteins with sesquiterpenoids and polyphenols		0	3655748
	, , ,	Controlling deposit structures via tuned nanorod interactions for enhanced ultrafiltration properties of			
12:00 PM	kocaman, Ceren	anisotropic membranes Synthesis of deformable hydrophobized microgels with		0	3656185
12:00 PM	Watanabe, Takumi	solid nanoparticles  Development and pharmacological characterization of		0	3657206
		microwave-assisted solid dispersion of General			
12:00 PM	Datt, Neelam	Chemistry I loaded micro-gel for superficial infections Unraveling structure-property relationship of		0	3659932
12:00 PM	Cherukupally, Pavani	oil/water/surfactant system with temperature		0	3661210
12:00 PM	Kamkar, Milad	From sculpted emulsions to structured aerogels		0	3661409
		Alginate lyase guided rhamnolipid coated mesoporous nanoassembly for synergistic delivery of an antibiotic			
		and a quorum sensing inhibitor for the eradication of			
12:00 PM	Rathnayake, Kavini	Pseudomonas aeruginosa biofilms		0	3661613
		NIR triggered reprogrammable shape memory micropillars with accurately controllable friction and			
12:00 PM	Shao, Yanlong	adhesion		0	3662118
Monday			Virtual Room		
3/21/2022	Poster - Virtual	Colloidal Nanoparticle Synthesis and Assembly Highly responsive manganese ferrite clusters toward	(Zoom)		COLL022A
		efficient magnetic heating using battery-operated			
12:00 PM	Xiao, Zhen	inductive heaters		0	3655652
		Fe2+ doped ZnSe nanocrystals: Synthesis and size control via variation of temperature in a microemulsion			
12:00 PM	Wang, Joanna	assisted hydrothermal system		0	3657422
Monday		Synthetic Amphiphiles and Formulations for the	Virtual Room		
3/21/2022	Poster - Virtual	Delivery of Drugs, Nucleic Acids and Proteins	(Zoom)		COLL031A
12:00 PM	Heise, Ryan   Banerjee, Ipsita	Assessment of self-assembling ability and stability of newly designed collagen-mimetic peptides and their		0	3647228

interactions with extracellular matrix proteins computationally

		Computationally	V.C. at I		
Monday 3/21/2022	Poster - Virtual	Frontiers and Challenges in Nanoparticle-Mediated Chemical Transformations	Virtual Room (Zoom)		COLL033A
12:00 PM	Yang, Cao	Photo-induced methane nonoxidative conversion on Ti- containing layered double hydroxide nanocomposite	Virtual	0	3638170
Monday 3/21/2022	Poster - Virtual	Perspective of Soft Matter Research in Space: Present & Future	Room (Zoom)		COLL037A
Monday 3/21/2022	Poster - Virtual	PUNC: Nanomaterials Research at Primarily Undergraduate Institutions	Virtual Room (Zoom)		COLL041A
		Mapping spectral-structure relationships of crystal			
42.00 DN4	Continua e e Alaba a cada	packing in PDI thin films using infrared reflectance			
12:00 PM	Smirnov, Aleksandr	absorbance spectroscopy	Exhibit	0	3659825
Monday			Hall C		
3/21/2022	Sci-mix - In-person	Sci-Mix	(SDCC)		COLL044A
		Probing interfacial structural dynamics of charged glassy			
8:00 PM	Deptula, Alexander	gels		0	3638721
0.00 014	Dana Diva	Encapsulation of perovskite nanocrystal solids using			
8:00 PM	Bose, Riya	metal oxides: A closer look into optical properties		0	3640428
		Au@Ag nanobipyramids based nanoplasmonic			
0.00 DN4	Wana Chuanuu	sandwich immunoassay for tumor-derived exosome		_	2544542
8:00 PM	Wang, Chuanyu	detection and exosomal PD-L1 profiling		0	3641542
8:00 PM	Knecht, Tawney	Understanding metal oxide nanocrystal growth using a continuous addition synthesis		•	2642440
8.00 F W	Kileciti, lawiley	Ultrathin hard magnetic coatings with perpendicular		0	3642449
8:00 PM	Chumakov, Andrei	strong anisotropy by a spray deposition technique		0	3642812
8.00 F W	Chamakov, Anarei	Cleavable polymer amphiphiles for enhanced		U	3042012
8:00 PM	Brega, Valentina	photodynamic therapy		0	3642954
0.001101	brega, valentina	Complex lipid-coated gold nanoparticles for the study of		U	3042934
8:00 PM	McClain, Sophia	alpha-synuclein/membrane interactions		0	3645736
0.001111	Wicciam, Sopina	Gold nanostars: Synthesis, functionalization, and		U	3043730
8:00 PM	Le, Natasha	application		0	3646741
	Suárez	Applying coarse-grained models to obtain Janus		Ū	50.07.12
8:00 PM	López, Rosa	nanoparticle distributions		0	3648443
	,, ,	Engineering amyloid stabilized air-water interfaces for			
8:00 PM	Kummer, Nico	functional coatings		0	3649224
		Development of NIR-I light-activatable nanoparticles			
	Tapia Hernandez,	with integrated NIR-II photoacoustic tracking for in vivo			
8:00 PM	Rodrigo	cargo delivery		0	3649473
		Patterned chemical surface functionalization for self-			
8:00 PM	Haris, Uroob	propelled micromotors		0	3649595
		ZIF-8 coated stainless steel meshes with colloidally			
		capped silver nanoparticles (CC Ag NPs) for removal of			
8:00 PM	Rodriguez, Ricky	organic dyes and bacterial species		0	3649775
		"Off-surface" cross-linking of self-assembled			
8:00 PM	Wilczek, Luke	monolayers: Reaction without morphology perturbation		0	3650054
		Ultrafast interfacial electron transfer dynamics between			
0.00 DN4	DOV COLIMI	CsPbBr3 perovskite nanocrystals and small organic		_	
8:00 PM	ROY, SOUMI	molecules		0	3650087
		Comparative study of mechanical, self-adhesive, self- healable properties of a hybrid hydrogel based on			
8:00 PM	Sahoo, Subhangi	chitosan, tetraethylene glycol and polyacrylic acid		0	3650111
0.00 F IVI	Janioo, Jabilangi	Au-coated iron oxide nanoparticles for proteomic		U	2020111
8:00 PM	Hoang, Khoi Nguyen	analysis		0	3650390
2.00		,		J	5050550

		Synthesis and characterization of rhamnolipids and		
0.00.014		xylolipids using biosynthetic and synthetic b-hydroxy		
8:00 PM	Compton, Avery	acids Decoding the EphA2 active states by negatively charged	0	3651589
8:00 PM	Singh, Pradeep Kumar	membrane lipid regulation through FCCS  Electrical double layer of ionic liquids on graphene	0	3652527
8:00 PM	Zheng, Qianlu	electrode Surface chemistry of indoor relevant organic	0	3652876
8:00 PM	Fan, Hanyu	compounds limonene and carvone on SiO2 Protein modification as a facile approach to retain	0	3652975
8:00 PM	Riley, McKenzie	activity upon conjugation to gold nanoparticles Effects of ligand coverage and linker concentration on	0	3653820
8:00 PM	Lin, Emily Baradaran Kayyal,	the structure of linker-mediated nanocrystal gels  Dendronized gold nanorattles as multifunctional hybrid	0	3653952
8:00 PM	Tohid	nanoparticles  Plasmonic detection of glycosylated gold nanoparticles:	0	3654033
8:00 PM	Georgiou, Panagiotis	influence of the polymeric glyco-linker on signal outputs due to protein-corona formation	0	3654982
8:00 PM	Greenwood, Gus	Tuning nanoscale friction at the graphene interface using an FET-like device	0	3656661
8:00 PM	Parajuli, Sanjiv	Characterization of liquid-liquid interfaces stabilized by chitin and cellulose nanocrystals	0	3656843
8:00 PM	Zhang, Xuhui	Correlation between nanorheological and nanotribological nehavior of ionic liquids	0	3657047
8:00 PM	Kwon, Jiheon	Enhancing mechanical properties of agarose hydrogels via mineralization	0	3657083
8:00 PM	Fernandes, Natalia	Antibacterial activity of an eco-friendly biosurfactant produced by yeast	0	3657125
8:00 PM	Rahmani, Paniz	One-step cap exchange method to produce quantum Dot-oligonucleotide conjugates	0	3657134
8:00 PM	Joy, Karena	Plasmonic activation of molecular switches via laser irradiation	0	3657317
8:00 PM	Lowrance, Chanda	Controlled assembly of gold nanobipyramids and CdSe/CdS quantum Dot	0	3657437
		Effective hard-sphere interactions between colloidal metal oxide nanocrystals by virial coefficient		
8:00 PM	Ofosu, Charles	measurements Orientation analysis of hierarchically oriented molecular self-assembled systems with line scanning vibrational sum frequency generation hyperspectral microscopy	0	3657657
8:00 PM	Wu, Zishan	and machine learning Reactivity and selectivity of single atom catalysts on metal oxide surfaces for the selective hydrogenation of	0	3657804
8:00 PM	Wasim, Eman	acetylene Fluorine and tin co-doped indium oxide nanocubes for	0	3658409
8:00 PM	Roman, Benjamin	tunable IR plasmonics Nanomaterial enhanced photonic colloidal crystals as	0	3658631
8:00 PM	Waters, Thomas	colorimetric time temperature indicators  Mutual polarization method for simulating the	0	3658646
8:00 PM	Sherman, Zachary	plasmonic response of self-assembled nanoparticle gels Facile fabrication of extremely wet surface harnessing	0	3658700
8:00 PM	HOSSAIN, Kazi Zihan	5nm-thick gallium oxide on liquid metal Function-adaptive clustered nanoparticles reverse Streptococcus mutans dental biofilm and maintain	0	3659540
8:00 PM	Ostadhossein, Fatemeh	microbiota balance	0	3659815

8:00 PM	Stegmann, Amy	De novo designed protein templates for directing mineralization of titanium oxides nanoparticles	0	3660225
		Evaluation of the self-assembly behavior of colloidal		
	Carvalho Rocha,	particles with charged lobes via molecular dynamics		
8:00 PM	Brunno	simulations	0	3660375
0.00.014	C II NI I	Calculation of ionization energies and electron affinities		
8:00 PM	Spanedda, Nicole	of quantum dots and nanowires	0	3660748
0.00 DN4	Hanigan-Diebel,	Mixed-monolayer gold nanoparticle interactions with	•	2552252
8:00 PM	Jennifer	bovine serum albumin	0	3660850
8:00 PM	Jensen, Mitchel	Famatinite nanomaterial synthesis and characterization for sustainable energy applications		200000
6.00 PIVI	Jensen, Mittener	Mixed-monolayer gold nanoparticles: Compositional	0	3660960
8:00 PM	Carroll, Matthias	analysis with an internal standard 1H-NMR experiment	0	3661184
8.00 F W	Carron, Mattinas	Development of pH-responsive peptide-coated	U	3001184
		nanoparticles for targeting and drug delivery to ovarian		
8:00 PM	Dragulska, Sylwia	cancer cells	0	3661355
0.001101	Druguiska, syrwia	Dielectric effects dictate the emission anisotropy in	O	3001333
8:00 PM	Rodriguez Ortiz, Freddy	colloidal CsPbBr3 nanorods	0	3661393
0.001		Rational design of phosphonate ligands for	Ü	3001333
8:00 PM	Hrovat, David	upconverting nanoparticles in biological applications	0	3662053
	,	Two-component, click-functionalized hemostat for the		
8:00 PM	Hong, Celestine	treatment of internal hemorrhage	0	3662149
	C.	Reactions of alpha-pinene with SO2 and NO2 on		
8:00 PM	Hettiarachchi, Eshani	hematite surface	0	3662177
		Engineering coatings for protein nanoclusters to		
8:00 PM	Pho, Thomas	understand intranasal biological barriers	0	3662300
		Probing anion adsorption at a charged surfactant		
		monolayer interface with sum frequency generation		
8:00 PM	Wimalasiri, Pubudu	spectroscopy and molecular dynamics simulations	0	3662404
		Internalization into cancer cells of zwitterionic amino		
8:00 PM	Takano, Shin	acid polymers via amino acid transporter recognition	0	3671531
8:00 PM	Shen, Xinhang	Synthesis inverse diamond lattice by sol-gel method	0	3677702
Monday			Virtual	
3/21/2022	Sci-Mix - Virtual	Sci-Mix	Room	COLL044B
3/21/2022	Sci-iviix - Vii tuai	Photo-induced methane nonoxidative conversion on Ti-	(Zoom)	COLLU44B
8:00 PM	Yang, Cao	containing layered double hydroxide nanocomposite	0	3638170
0.0011	xiong, yilin   Shen, Hao	containing layered double riyaroxide hanocomposite	U	3030170
	Dong, Zhaoxia   Yang,	Novel amphiphilic Janus nanosheets for good stability in		
8:00 PM	Zihao	formation brine	0	3646239
0.001		Extended hydrogen bonding through protic ionic liquids	ŭ	30 10233
		facilitates the growth and stability of water domains in		
8:00 PM	BANERJEE, SHANKHA	hydrophobic environment	0	3650826
	,	Modelling optical properties of anisotropic gold		
8:00 PM	Sifuentes, Jorge	nanoparticles	0	3651312
		Cyanuric chloride-based reactive dyeing treatment of		
8:00 PM	Tang, Ruogu	cellulosic fibers with antimicrobial functions	0	3651751
		Ion adsorption on graphene oxide monolayers at the		
8:00 PM	Carr, Amanda	air/water interface	0	3652838
		Host targeted multifunctional nano-therapy for		
8:00 PM	Patel, Unnatiben	eradication of intracellular bacterial infection	0	3653106
		Effects of polymer block length asymmetry and		
		temperature on the nanoscale morphology of		
0.55.5		thermoresponsive double hydrophilic block copolymers		
8:00 PM	Vagias, Apostolos	in aqueous solutions	0	3653569

		Expanding chemical versatility of Ge1-x Snx		
		nanocrystals for the fabrication of thin films with high		
8:00 PM	Barbieri, Rachel	electrical conductivity and tunable energy gaps	0	3654811
	•	Quantum dot complex of ZnS and Pd(II) complex for		
		selective detection of pyrophosphate anion with		
8:00 PM	GOGOI, MADHULEKHA	fluorescence quenching	0	3655173
		Highly responsive manganese ferrite clusters toward		
0.00.014	\cappa_{\cappa\cappa_{\cappa_{\cappa_{\cappa_{\cappa_{\cappa_{\cappa_{\cappa_{\cappa\cappa_{\cappa\cappa_{\cappa\cappa_{\cappa\cappa_{\cappa\cappa_{\cappa\cap	efficient magnetic heating using battery-operated		
8:00 PM	Xiao, Zhen	inductive heaters	0	3655652
8:00 PM	Jimenez de Aberasturi, Dorleta	Inorganic nanoparticles/polymer hybrid materials for biomedicine	0	2656209
8.00 F W	Doneta	Development of photocrosslinkable Kappa-carrageenan	U	3656208
		bioink to fabricate cell-laden scaffolds with high		
8:00 PM	Kumari, Sushma	cytocompatibility	0	3656587
		Self-assembled metal ion incorporated poly vinyl		
		alcohol hydrogel beads for fluoride removal from		
8:00 PM	M, Sai Kiran	groundwater	0	3658384
0.00.014		Unraveling structure-property relationship of		
8:00 PM	Cherukupally, Pavani	oil/water/surfactant system with temperature	0	3661210
		Alginate lyase guided rhamnolipid coated mesoporous nanoassembly for synergistic delivery of an antibiotic		
		and a quorum sensing inhibitor for the eradication of		
8:00 PM	Rathnayake, Kavini	Pseudomonas aeruginosa biofilms	0	3661613
	, ,	NIR triggered reprogrammable shape memory		
		micropillars with accurately controllable friction and		
8:00 PM	Shao, Yanlong	adhesion	0	3662118
Tuesday			Room 22	
3/22/2022	Oral - Hybrid	ACS Award Lectures 2022	(SDCC)	COLL001A
		Engineering the hig material intertace for higgeneing		
2·10 DM	Stevens Molly	Engineering the bio-material interface for biosensing	EO	2677712
2:10 PM	Stevens, Molly	applications	50	3677713
2:10 PM 3:15 PM	Stevens, Molly Salmeron, Miquel		50 50	3677713 3671773
	·	applications Spectroscopic studies of solid-liquid interfaces using		
3:15 PM	·	applications Spectroscopic studies of solid-liquid interfaces using nanometer thin materials  Colloidal Gels	50	
3:15 PM Tuesday 3/22/2022	Salmeron, Miquel  Oral - Hybrid	applications Spectroscopic studies of solid-liquid interfaces using nanometer thin materials  Colloidal Gels Shear-induced anisotropy at the meso- and macro-	50 Room 22	3671773
3:15 PM Tuesday 3/22/2022 8:05 AM	Salmeron, Miquel  Oral - Hybrid  McGorty, Ryan	applications Spectroscopic studies of solid-liquid interfaces using nanometer thin materials  Colloidal Gels Shear-induced anisotropy at the meso- and macroscales in colloidal gels	50 Room 22	3671773
3:15 PM Tuesday 3/22/2022	Salmeron, Miquel  Oral - Hybrid	applications Spectroscopic studies of solid-liquid interfaces using nanometer thin materials  Colloidal Gels Shear-induced anisotropy at the meso- and macroscales in colloidal gels Shear-induced memory effect in boehmite gels	50 Room 22 (SDCC)	3671773 COLL002A
3:15 PM Tuesday 3/22/2022 8:05 AM 8:25 AM	Salmeron, Miquel  Oral - Hybrid  McGorty, Ryan Sudreau, Iana	applications Spectroscopic studies of solid-liquid interfaces using nanometer thin materials  Colloidal Gels Shear-induced anisotropy at the meso- and macroscales in colloidal gels Shear-induced memory effect in boehmite gels How does rigidity emerge and disappear in low density	50 Room 22 (SDCC) 20	3671773 COLL002A 3659269 3650754
3:15 PM Tuesday 3/22/2022 8:05 AM	Salmeron, Miquel  Oral - Hybrid  McGorty, Ryan	applications Spectroscopic studies of solid-liquid interfaces using nanometer thin materials  Colloidal Gels Shear-induced anisotropy at the meso- and macroscales in colloidal gels Shear-induced memory effect in boehmite gels How does rigidity emerge and disappear in low density soft matter?	50 Room 22 (SDCC)	3671773 COLL002A 3659269
3:15 PM Tuesday 3/22/2022 8:05 AM 8:25 AM 8:45 AM	Salmeron, Miquel  Oral - Hybrid  McGorty, Ryan Sudreau, Iana  Mao, Xiaoming	applications Spectroscopic studies of solid-liquid interfaces using nanometer thin materials  Colloidal Gels Shear-induced anisotropy at the meso- and macroscales in colloidal gels Shear-induced memory effect in boehmite gels How does rigidity emerge and disappear in low density soft matter? Theory of scale-dependent activated dynamics in dense	50 Room 22 (SDCC)  20 20 30	3671773 COLL002A 3659269 3650754 3658795
3:15 PM Tuesday 3/22/2022 8:05 AM 8:25 AM	Salmeron, Miquel  Oral - Hybrid  McGorty, Ryan Sudreau, Iana	applications Spectroscopic studies of solid-liquid interfaces using nanometer thin materials  Colloidal Gels Shear-induced anisotropy at the meso- and macroscales in colloidal gels Shear-induced memory effect in boehmite gels How does rigidity emerge and disappear in low density soft matter? Theory of scale-dependent activated dynamics in dense suspensions of attractive colloids	50 Room 22 (SDCC) 20	3671773 COLL002A 3659269 3650754
3:15 PM Tuesday 3/22/2022 8:05 AM 8:25 AM 8:45 AM	Salmeron, Miquel  Oral - Hybrid  McGorty, Ryan Sudreau, Iana  Mao, Xiaoming	applications Spectroscopic studies of solid-liquid interfaces using nanometer thin materials  Colloidal Gels Shear-induced anisotropy at the meso- and macroscales in colloidal gels Shear-induced memory effect in boehmite gels How does rigidity emerge and disappear in low density soft matter? Theory of scale-dependent activated dynamics in dense	50 Room 22 (SDCC)  20 20 30	3671773 COLL002A 3659269 3650754 3658795
3:15 PM Tuesday 3/22/2022 8:05 AM 8:25 AM 8:45 AM 9:15 AM	Salmeron, Miquel  Oral - Hybrid  McGorty, Ryan Sudreau, Iana  Mao, Xiaoming  Schweizer, Kenneth	applications Spectroscopic studies of solid-liquid interfaces using nanometer thin materials  Colloidal Gels Shear-induced anisotropy at the meso- and macroscales in colloidal gels Shear-induced memory effect in boehmite gels How does rigidity emerge and disappear in low density soft matter? Theory of scale-dependent activated dynamics in dense suspensions of attractive colloids Non-exponential stress relaxations in arrested soft	50 Room 22 (SDCC)  20 20 30 30	3671773 COLL002A 3659269 3650754 3658795 3654003
3:15 PM Tuesday 3/22/2022 8:05 AM 8:25 AM 8:45 AM 9:15 AM 10:00 AM 10:20 AM	Salmeron, Miquel  Oral - Hybrid  McGorty, Ryan Sudreau, Iana  Mao, Xiaoming  Schweizer, Kenneth  Song, Jake sciortino, francesco	applications Spectroscopic studies of solid-liquid interfaces using nanometer thin materials  Colloidal Gels Shear-induced anisotropy at the meso- and macroscales in colloidal gels Shear-induced memory effect in boehmite gels How does rigidity emerge and disappear in low density soft matter? Theory of scale-dependent activated dynamics in dense suspensions of attractive colloids Non-exponential stress relaxations in arrested soft materials Playing with DNA hydrogels	50 Room 22 (SDCC)  20 20 30 30 20 30	3671773  COLL002A  3659269 3650754  3658795 3654003  3651225 3647076
3:15 PM Tuesday 3/22/2022 8:05 AM 8:25 AM 8:45 AM 9:15 AM	Salmeron, Miquel  Oral - Hybrid  McGorty, Ryan Sudreau, Iana  Mao, Xiaoming  Schweizer, Kenneth  Song, Jake	applications Spectroscopic studies of solid-liquid interfaces using nanometer thin materials  Colloidal Gels Shear-induced anisotropy at the meso- and macroscales in colloidal gels Shear-induced memory effect in boehmite gels How does rigidity emerge and disappear in low density soft matter? Theory of scale-dependent activated dynamics in dense suspensions of attractive colloids Non-exponential stress relaxations in arrested soft materials	50 Room 22 (SDCC)  20 20 30 30 20	3671773 COLL002A 3659269 3650754 3658795 3654003 3651225
3:15 PM Tuesday 3/22/2022 8:05 AM 8:25 AM 8:45 AM 9:15 AM 10:00 AM 10:20 AM	Salmeron, Miquel  Oral - Hybrid  McGorty, Ryan Sudreau, Iana  Mao, Xiaoming  Schweizer, Kenneth  Song, Jake sciortino, francesco	applications Spectroscopic studies of solid-liquid interfaces using nanometer thin materials  Colloidal Gels Shear-induced anisotropy at the meso- and macroscales in colloidal gels Shear-induced memory effect in boehmite gels How does rigidity emerge and disappear in low density soft matter? Theory of scale-dependent activated dynamics in dense suspensions of attractive colloids Non-exponential stress relaxations in arrested soft materials Playing with DNA hydrogels Modeling linker-mediated assembly of nanocrystal gels	50 Room 22 (SDCC)  20 20 30 30 20 30	3671773  COLL002A  3659269 3650754  3658795 3654003  3651225 3647076
3:15 PM Tuesday 3/22/2022 8:05 AM 8:25 AM 8:45 AM 9:15 AM 10:00 AM 10:20 AM 10:50 AM 11:20 AM Tuesday	Salmeron, Miquel  Oral - Hybrid  McGorty, Ryan Sudreau, Iana  Mao, Xiaoming  Schweizer, Kenneth  Song, Jake sciortino, francesco Howard, Michael  Singh, Murari	applications Spectroscopic studies of solid-liquid interfaces using nanometer thin materials  Colloidal Gels Shear-induced anisotropy at the meso- and macroscales in colloidal gels Shear-induced memory effect in boehmite gels How does rigidity emerge and disappear in low density soft matter? Theory of scale-dependent activated dynamics in dense suspensions of attractive colloids Non-exponential stress relaxations in arrested soft materials Playing with DNA hydrogels Modeling linker-mediated assembly of nanocrystal gels Linker based strategies for tuning optical and mechanical properties of nanocrystal gels	50 Room 22 (SDCC)  20 20 30 30 30 30 30 30	3671773  COLL002A  3659269 3650754  3658795  3654003  3651225 3647076 3650957
3:15 PM Tuesday 3/22/2022 8:05 AM 8:25 AM 8:45 AM 9:15 AM 10:00 AM 10:20 AM 10:50 AM	Salmeron, Miquel  Oral - Hybrid  McGorty, Ryan Sudreau, Iana  Mao, Xiaoming  Schweizer, Kenneth  Song, Jake sciortino, francesco Howard, Michael	applications Spectroscopic studies of solid-liquid interfaces using nanometer thin materials  Colloidal Gels Shear-induced anisotropy at the meso- and macroscales in colloidal gels Shear-induced memory effect in boehmite gels How does rigidity emerge and disappear in low density soft matter? Theory of scale-dependent activated dynamics in dense suspensions of attractive colloids Non-exponential stress relaxations in arrested soft materials Playing with DNA hydrogels Modeling linker-mediated assembly of nanocrystal gels Linker based strategies for tuning optical and mechanical properties of nanocrystal gels Colloidal Gels	50 Room 22 (SDCC)  20 20 30 30 30 30 20	3671773  COLL002A  3659269 3650754  3658795  3654003  3651225 3647076 3650957
3:15 PM Tuesday 3/22/2022 8:05 AM 8:25 AM 8:45 AM 9:15 AM 10:00 AM 10:20 AM 10:50 AM 11:20 AM Tuesday	Salmeron, Miquel  Oral - Hybrid  McGorty, Ryan Sudreau, Iana  Mao, Xiaoming  Schweizer, Kenneth  Song, Jake sciortino, francesco Howard, Michael  Singh, Murari	applications Spectroscopic studies of solid-liquid interfaces using nanometer thin materials  Colloidal Gels Shear-induced anisotropy at the meso- and macroscales in colloidal gels Shear-induced memory effect in boehmite gels How does rigidity emerge and disappear in low density soft matter? Theory of scale-dependent activated dynamics in dense suspensions of attractive colloids Non-exponential stress relaxations in arrested soft materials Playing with DNA hydrogels Modeling linker-mediated assembly of nanocrystal gels Linker based strategies for tuning optical and mechanical properties of nanocrystal gels  Colloidal Gels "Phase mechanics" of arrested colloidal gels: A new	50 Room 22 (SDCC)  20 20 30 30 30 30 20 Room 23A	3671773  COLL002A  3659269 3650754  3658795 3654003  3651225 3647076 3650957  3663846
3:15 PM Tuesday 3/22/2022 8:05 AM 8:25 AM 8:45 AM 9:15 AM 10:00 AM 10:20 AM 10:50 AM 11:20 AM Tuesday 3/22/2022	Salmeron, Miquel  Oral - Hybrid  McGorty, Ryan Sudreau, Iana  Mao, Xiaoming  Schweizer, Kenneth  Song, Jake sciortino, francesco Howard, Michael  Singh, Murari  Oral - Hybrid	applications Spectroscopic studies of solid-liquid interfaces using nanometer thin materials  Colloidal Gels Shear-induced anisotropy at the meso- and macroscales in colloidal gels Shear-induced memory effect in boehmite gels How does rigidity emerge and disappear in low density soft matter? Theory of scale-dependent activated dynamics in dense suspensions of attractive colloids Non-exponential stress relaxations in arrested soft materials Playing with DNA hydrogels Modeling linker-mediated assembly of nanocrystal gels Linker based strategies for tuning optical and mechanical properties of nanocrystal gels  Colloidal Gels "Phase mechanics" of arrested colloidal gels: A new paradigm for non-equilibrium phase transitions in soft	50 Room 22 (SDCC)  20 20 30 30 30 20 30 20 Room 23A (SDCC)	3671773  COLL002A  3659269 3650754  3658795  3654003  3651225 3647076 3650957  3663846  COLL002B
3:15 PM Tuesday 3/22/2022 8:05 AM 8:25 AM 8:45 AM 9:15 AM 10:00 AM 10:20 AM 10:50 AM 11:20 AM Tuesday	Salmeron, Miquel  Oral - Hybrid  McGorty, Ryan Sudreau, Iana  Mao, Xiaoming  Schweizer, Kenneth  Song, Jake sciortino, francesco Howard, Michael  Singh, Murari	applications Spectroscopic studies of solid-liquid interfaces using nanometer thin materials  Colloidal Gels Shear-induced anisotropy at the meso- and macroscales in colloidal gels Shear-induced memory effect in boehmite gels How does rigidity emerge and disappear in low density soft matter? Theory of scale-dependent activated dynamics in dense suspensions of attractive colloids Non-exponential stress relaxations in arrested soft materials Playing with DNA hydrogels Modeling linker-mediated assembly of nanocrystal gels Linker based strategies for tuning optical and mechanical properties of nanocrystal gels  Colloidal Gels  "Phase mechanics" of arrested colloidal gels: A new paradigm for non-equilibrium phase transitions in soft matter	50 Room 22 (SDCC)  20 20 30 30 30 30 20 Room 23A	3671773  COLL002A  3659269 3650754  3658795 3654003  3651225 3647076 3650957  3663846
3:15 PM Tuesday 3/22/2022 8:05 AM 8:25 AM 8:45 AM 9:15 AM 10:00 AM 10:20 AM 10:50 AM 11:20 AM Tuesday 3/22/2022	Salmeron, Miquel  Oral - Hybrid  McGorty, Ryan Sudreau, Iana  Mao, Xiaoming  Schweizer, Kenneth  Song, Jake sciortino, francesco Howard, Michael  Singh, Murari  Oral - Hybrid	applications Spectroscopic studies of solid-liquid interfaces using nanometer thin materials  Colloidal Gels Shear-induced anisotropy at the meso- and macroscales in colloidal gels Shear-induced memory effect in boehmite gels How does rigidity emerge and disappear in low density soft matter? Theory of scale-dependent activated dynamics in dense suspensions of attractive colloids Non-exponential stress relaxations in arrested soft materials Playing with DNA hydrogels Modeling linker-mediated assembly of nanocrystal gels Linker based strategies for tuning optical and mechanical properties of nanocrystal gels  Colloidal Gels "Phase mechanics" of arrested colloidal gels: A new paradigm for non-equilibrium phase transitions in soft	50 Room 22 (SDCC)  20 20 30 30 30 20 30 20 Room 23A (SDCC)	3671773  COLL002A  3659269 3650754  3658795  3654003  3651225 3647076 3650957  3663846  COLL002B

		Does diffusiophoresis play a role in coagulant dipping		
2:50 PM	Williams, Ian	gelation?	20	3649947
3:10 PM	Del Gado, Emanuela	Elasticity, rigidity and rheology in soft particulate gels	30	3660668
3:55 PM	Bischofberger, Irmgard	Yield precursor in primary creep of colloidal gels	30	3650529
	Lehéricey,	, , ,		
4:25 PM	Pierre	Probing plastic rearrangements in colloidal gels	20	3650790
4 45 554		Influence of surface roughness on the yielding of		
4:45 PM	Muller, Florence	thermo-reversible colloidal gels Effect of the gravitational field on the gelation in sticky	20	3650109
5:05 PM	Martínez, Jaime	colloidal dispersions	20	3654182
Tuesday			Room 23A	000 1202
3/22/2022	Oral - Hybrid	Surface Chemistry	(SDCC)	COLL014E
		Electronic and optical property control of		
0.20 484	Eshala Isaa	polycation/MXene layer-by-layer assemblies with		
8:20 AM	Echols, lan	chemically diverse MXenes Surface chemistry of indoor relevant organic	20	3659799
9:00 AM	Fan, Hanyu	compounds limonene and carvone on SiO2	20	3652975
3.007	ran, nanya	Investigation of nonadiabatic effects for H2 at Cu	20	3032373
		surfaces: A unified machine-learned electronic friction		
9:20 AM	Stark, Wojciech	model for multiple facets	20	3653100
		Metal-ligand complexation on model surfaces and on		
10.00 484	Talk Charren	oxide powder supports for single-site heterogeneous		
10:00 AM	Tait, Steven	catalysis	20	3647866
10:20 AM	Duncan, David	Silicene's pervasive surface alloy on Ag(111)	20	3653636
10:40 AM	Reinke, Petra	Oxidation of Ni-Cr alloys: Heterogeneity imparted by alloy microstructure and surface orientation	20	3657100
10.40 AW	Neilike, Fetia	Effects of stoichiometry on the morphology and thermal	20	303/100
11:00 AM	Wang, Jason	stability of metal oxide clusters on metal surfaces	20	3660297
	<u>.</u>	Surface-dependent selective oxidation of ethanol to		
11:20 AM	Baber, Ashleigh	acetaldehyde over TiO2/Au(111)	20	3660476
11:40 AM	Panariti, Persi	New oxidants and etch ligands for ALE of copper	20	3660741
Tuesday		Frontiers and Challenges in Nanoparticle-Mediated	Room 23B	
3/22/2022	Oral - Hybrid	Chemical Transformations	(SDCC)	COLL032B
8:00 AM	Frenkel, Anatoly	Search for active site ensembles in dilute nanoparticle catalysts	30	3648615
0.00 AIVI	Trenkel, Anatoly	Routes to markedly enhanced electrocatalysis via	30	3048013
		photothermal-promoted dynamic active sites		
8:30 AM	Lin, Zhiqun	generation and interfaced with single atoms	30	3640958
	Warkentin, Christopher			
9:00 AM	L.	Ultrafast reducing power of a plasmonic photocatalyst	20	3659350
		Dynamic control of elementary step energetics via pulsed illumination enhances photocatalysis on metal		
9:20 AM	Christopher, Phillip	nanoparticles	30	3659691
3.207	Ciriotophici, i minp	Quantifying oxygen induced surface enrichment of a	30	3033031
10:00 AM	Reece, Christian	dilute PdAu alloy catalyst	30	3637432
		Colloidal synthesis of metal nanocrystals in metastable		
10:30 AM	Xia, Younan	crystal structures	30	3640935
11.00 414	N. da vatla i va va Va vatla i a la	Controlling electrocatalytic oxygen-atom transfer		
11:00 AM	Manthiram, Karthish	reactions  Nanostructure array integration for energy-efficient and	30	3662324
11:30 AM	Gao, Pu-Xian	sustainable CO2 conversion and H2 production	30	3651248
Tuesday		Frontiers and Challenges in Nanoparticle-Mediated	Room 23B	,
3/22/2022	Oral - Hybrid	Chemical Transformations	(SDCC)	COLL032C
		Exploiting colloidal nanocrystal precursors for the		
2:00 PM	Cargnello, Matteo	preparation of uniform heterogeneous catalysts	30	3651590

2:30 PM	Sykes, E Charles	Single-atom alloy catalysts for non-oxidative propane dehydrogenation Supporting colloidal nanoparticles for catalysts for CO2	30	3641100
3:00 PM	Dummer, Nicholas	hydrogenation.  Nanoscale processes associated with the disorder-to- order transformation of carbon-supported alloy	30	3658125
3:30 PM	Skrabalak, Sara	nanoparticle atalysts	30	3658283
4:10 PM	Montemore, Matthew	Computational screening of dilute alloy catalysts Complex oxide electrocatalysts for the oxygen evolution	30	3655934
4:40 PM	Yang, Hong	reaction Controlled synthesis of intermetallic nanoparticles for	30	3662631
5:10 PM	Huang, Wenyu	selective catalytic transformations  Motion control of the hydrogel microspheres driven by chemical oscillation reaction	30	3656066
5:40 PM	Inui, Kohei	chemical oscillation reaction	20 Room	3646820
Tuesday			20BCD	
3/22/2022	Oral - In-person	Nanomaterials	Theater 4 (SDCC)	COLL012E
	•	Photodynamics of Mn2+ doped coupled quantum Dot	(====)	
8:00 AM	chaudhary, vivek	ZnS-CdSe	20	3653341
		Understanding the surface passivation of quantum dots		
0.20.414	Jayaweera,	by small-molecule imidazole ligands: Exchange on		
8:20 AM	Nuwanthaka	oleate-capped cdse/zns core/shell quantum dots Resolving triexciton recombination pathways in	20	3659106
8:40 AM	Klein, Megan	CdSe/CdS core-shell nanocrystal heterostructures Enhanced emission from the bright exciton in	20	3659574
		asymmetrically strained colloidal CdSe/CdxZn1–xSe		
9:00 AM	Fedin, Igor	quantum dots	20	3660483
	-	Enhanced biexciton emission yield in individual		
9:20 AM	Marder, Andrew	CdS/CdSe/CdS nanoshells	20	3654636
		Tuning semiconductor dopant energy levels with double		
10:00 AM	Snee, Preston	doping via the cluster seed method	20	3661797
10:20 AM	Amorim Graf, Aline	Modifying chemical interactions with MoS2 by controlled thermal oxidation	20	2655504
10.20 AIVI	Amorim Grai, Aime	Effect of ligands and self-healing on the CdSe	20	3655594
10:40 AM	McIsaac, Alexandra	nanocrystals' absorption spectrum using TDDFT	20	3646641
		Colloidal silicon nanocrystals as luminescent layer in		00.00.12
	Gro��,	quantum Dot LEDs: Impact of surface group and chain		
11:00 AM	Elisabeth	length on LED performance	20	3646942
		Synthesis and application of lead-free metal halide		
11:20 AM	Chen, Ou	perovskite nanocrystals	20	3647178
11:40 AM	Gomez, Hector	DFT investigation of hydrogenated and oxidized group- IV terminated (111) diamond surfaces	20	2050454
11.40 AW	Goinez, riector	TV terminated (111) diamond surfaces	20 Room	3659451
Tuesday			20BCD	
3/22/2022	Oral - In-person	Surface Chemistry	Theater 5 (SDCC)	COLL014B
	•	Combined computational and spectroscopic structural	, ,	
		characterization of oxygen-terminated diamond (110)		
2:00 PM	Chaudhuri, Shayantan	surfaces	20	3641683
2:20 514	Chandley 84-44	Growing graphene with polycyclic hydrocarbon		
2:20 PM	Stoodley, Matthew	precursors  Energetics and morphology of Ag and Ni on graphone /	20	3650131
		Energetics and morphology of Ag and Ni on graphene / Ni(111) by adsorption calorimetry and ion scattering		
2:40 PM	Rumptz, John	spectroscopy	20	3652874
	Stokes, Camron	Brominated nanodiamond allows for C-C bond	20	2002071
3:00 PM	Wolcott, Abraham	formation without a catalyst at room temperature	20	3661044

3:20 PM	Sohail, Billal	Effects of alkali atom doping on metal-organic frameworks: A joint experimental and computational study	20	3646324
3.20 FIVI	Jonan, Billai	On-demand design of antimicrobial and antifouling	20	3040324
4:00 PM	Zhang, Dong	surfaces and hydrogels  Measuring nanoparticle-induced lipid phase change of varying membrane compositions using a new analysis of	20	3655128
4:20 PM	Kesner, Laura	laurdan fluorescence spectroscopy Tuning interfacial interactions for directed assembly of surface-anchored MOF-14 to tailor film morphology and	20	3655741
4:40 PM	Anderson, Mary	pattern surface features  Overcoming the permeability-selectivity tradeoff via the	20	3660885
5:00 PM	Jiao, Sally	design of heterogeneous pore wall chemistries High-throughput multiscale approach towards natural	20	3660797
5:20 PM	Bononi, Fernanda	gas hydrate additive discovery	20	3691071
Tuesday			Room 20BCD Theater 5	
3/22/2022	Oral - In-person	Biomaterials and Biointerfaces	(SDCC)	COLL016A
8:05 AM	McCue, Caroline	Controlling adhesion of mammalian cells during cell culture using stimulus-driven composite surfaces  Hydrated cable bacteria exhibit protonic conductivity	20	3638046
8:25 AM	Lusk, Bradley	over long distances Biopolymer molecular weight effect on hyaluronic acid-	20	3641552
8:45 AM	Ferreres Cabanes, Guillem	assisted silver nanoparticles synthesis and antimicrobial performance	20	3643892
9:40 AM	Roy, Anindo	Fabrication of nanostructures with tunable aspect ratios for mechanobactericidal activity and cytocompatibility Engineering liquid interfaces with viscoelastic 2D	20	3645146
10:00 AM	Gautrot, Julien	protein networks - microdroplet design for stem cell technologies Self-assembly of lysozyme aggregates with enhanced	20	3646998
10:20 AM	Kummer, Nico	antimicrobial activity	20	3648490
Tuesday 3/22/2022	Oral - In-person	Biomaterials and Biointerfaces	Room 23C (SDCC)	COLL016B
	Ogilvie-Battersby,	Synthesis of photocrosslinkable gelatin/gum Arabic microcapsules as a safe and nontoxic alternative to	(,	
2:25 PM	James	traditional crosslinkers Predicting protein adsorption to carbon nanotubes with	20	3650482
2:45 PM	Pinals, Rebecca	a supervised learning model One-step curable, covalently immobilized coating that	20	3650554
3:05 PM	Ghosh, Sreyan	can kill bacteria, fungi, influenza and SARS-CoV-2 viruses	20	3653392
3:40 PM	Loku Yaddehige, Mahesh	Multifunctional fluorine-19 magnetic resonance imaging (19F MRI) nanoparticles as theranostic agents	20	3654007
4:00 PM	Yokoyama, Kazushige	Characterization of SARS-CoV-2 spike protein at nano- scale interface	20	3654613
Tuesday	, ,	PUNC: Nanomaterials Research at Primarily	Room 23C	
3/22/2022	Oral - In-person	Undergraduate Institutions	(SDCC)	COLL040B
8:05 AM	Toote, Lauren	Simple and inexpensive test for detection of lead (II) in drinking water utilizing colorimetric nanoparticles Release and transformation nanoparticle additives from	20	3651024
8:25 AM	Clar, Justin	surface coatings on pristine & weathered pressure treated lumber	20	3650000
8:45 AM	Tollefson, Emily	Investigations of nanoparticle-protein interactions	20 20	3650909 3661175
3.73 AIVI	. Shelbon, Ennly	mrestigations of nanoparticle protein interactions	20	20011/3

9:05 AM	Gerdon, Aren	DNA aptamers influence calcium materials mineralization dependent on pH Effect of bio-coronas on the release of silver from	20	3658296
9:40 AM	Riley, Kathryn	nanoparticle-containing textiles Polyoxovanadate precursors for colloidal synthesis of	20	3658716
10:00 AM	Buck, Matthew	multi-metal oxide nanocrystals	20	3662062
10:20 AM	Hanson, Lindsey	Limits of pseudoelasticity in gold nanocrystals Lanthanide sensitized silver gallium sulfide (AGS)	20	3638519
10:40 AM	Hughes, Steven	nanocrystals for improved visible light emission	20	3642605
Tuesday 3/22/2022	Oral - In-person	Experimental and Computational Methods for Predictive Self-Assembly	Room 24A (SDCC)	COLL042A
8:05 AM	Gang, Oleg	Programming nanoscale systems: From designed architectures to prescribed processes  DNA-directed assembly of materials and devices with intentionally programmed structure-property	30	3690924
8:35 AM	Macfarlane, Robert	relationships Sequence-encoded synthesis and hierarchical	30	3690926
9:05 AM	Copp, Stacy	organization of DNA-stabilized nanoclusters	20	3660566
9:25 AM	Zhou, Yilong	Interfacial assembly of binary nanoparticle superlattices Evaluation of the self-assembly behavior of colloidal	20	3660793
9:45 AM	Carvalho Rocha, Brunno	particles with charged lobes via molecular dynamics simulations Electron videography of self-assembling nanoparticles into Maxwell mechanical frames and symmetry-	20	3660375
10:25 AM	Chen, Qian	breaking chiral lattices  Modeling and interactions of a DOPC bilayer and	30	3690927
10:55 AM	Amaro Marquez, Rocio	cytochrome c on a AuNP surface Quantifying dual thiol ligands ratio on silver nanocubes based on inductively coupled plasma-mass	20	3656408
11:15 AM	Xie, Yu	spectrometry	20	3647821
Tuesday		Experimental and Computational Methods for	Room 24A	
3/22/2022	Oral - In-person	Predictive Self-Assembly	(SDCC)	COLL042B
		Tilting the balance between hexagonal and square quasi-2D crystalline colloidal assemblies by tuning		
2:05 PM	Escobedo, Fernando	entropic and energetic interactions	30	3690980
		Learning to grow: Control of materials self-assembly		
2:35 PM	Whitelam, Stephen	using evolutionary reinforcement learning	30	3690928
		Signatures of molecular surface forces in the self- assembly of binary mixtures of nanoparticles on a solid		
3:05 PM	Manor, Ofer	substrate	20	3649751
		Experimental and computational investigation of micelle-to-bilayer transition for a system of water-oil-		
3:25 PM	Honaryar, Houman	cationic surfactant	20	3637695
3:45 PM	Hebner, Tayler	Association of alignment methodology and actuation of liquid crystalline elastomers	20	3654054
4:25 PM	Ortony, Julia	Intermolecular cohesion in amphiphilic self-assembly	30	3690929
	•	Peptide stimuli-responsive assembly of supramolecular		
4:55 PM	Hochbaum, Allon	nanostructures C-H vibrational frequency shift as a reporter of	30	3690976
5:25 PM	Urbina, Andres	hydrophobic aggregation: An experimental and computational study	20	3659163
5:25 PM  Tuesday 3/22/2022	Urbina, Andres Oral - Virtual	hydrophobic aggregation: An experimental and	20 Zoom Room 7 (Virtual Room)	3659163 COLL004E

		Name by a continuous and the constitution is also as a very small la		
10.00 414	Uniakawa Kalima	Membrane active peptide melittin induces reversible		
10:00 AM	Hristova, Kalina	blood-brain barrier opening	25	3653805
10:25 AM	Achkar Pana	Cholesterol stiffening of phosphatidylcholine membranes depends on acyl chain unsaturation	25	2057247
10.25 AIVI	Ashkar, Rana		25	3657217
10:50 AM	Kanwarthy Anna	New approaches to uncover how membrane rafts and caveolae form and function	25	2650620
10.30 AIVI	Kenworthy, Anne	Loss of membrane asymmetry facilitates membrane	25	3659620
11:15 AM	Wang, Hongyin	vesiculation through decreasing membrane stiffness	25	2650007
11.13 AIVI	wang, nongyin	Challenging the dogma: Cell plasma membranes are	25	3659887
		asymmetric not only in lipid composition but also		
11:40 AM	Doktorova, Milka	phospholipid and cholesterol abundance	25	3659730
11.40 AW	Doktorova, ivilika	Decoding the EphA2 active states by negatively charged	25	3039730
12:05 PM	Singh, Pradeep Kumar	membrane lipid regulation through FCCS	25	3652527
12.05 1 101	Singil, i raucep kumai	Indole facilitates antimicrobial transport across the	25	3032327
12:30 PM	Wu, Tong	bacterial peroplasm and cytoplasmic membrane	25	3647157
12.50 1 101	wa, rong	bacteriai peropiasiii ana cytopiasiiiie iiieiiibrane	Zoom	3047137
Tuesday		Diamanahuana Cumthasia Ctuurstuus Maahanisa and	Room 6	
Tuesday	Oral Virtual	Biomembrane Synthesis, Structure, Mechanics, and	(Virtual	
3/22/2022	Oral - Virtual	Dynamics	Room)	COLL004F
2.00 DN4	Cofinus Como	Shape transitions in bare and polymer coated cationic		
3:00 PM	Safinya, Cyrus	liposomes with univalent and multivalent lipids	25	3654725
		Effects of lipid oxidation on functional bilayer		
3:25 PM	Malmetadt Noah	properties: Changes in mechanics, permeability, and	25	2554525
3:25 PIVI	Malmstadt, Noah	protein activity	25	3661526
2.50 014	Drown Michael	Hydration and membrane lipids modulate G-protein—	25	2657207
3:50 PM	Brown, Michael	coupled receptor activation	25	3657387
4:15 PM	Johnson, David	Dynamic and equilibrium interactions between intrinsically disordered proteins and curved membranes	25	2664.476
4.13 FIVI	Johnson, David	Clock vesicles: Reconstituted circadian clocks in giant	25	3661476
		vesicles demonstrate binary-like states modulated by		
4:40 PM	Li, Alexander	cell-like variability	25	3662035
4.401101	Li, Alexandei	Mechanistic insights enable high yield assembly of cell-	25	3002033
		mimetic giant vesicles in solutions of physiological ionic		
5:05 PM	Subramaniam, Anand	strengths	25	3661880
3.03 1 101	Subramamam, Anana	Effect of surface concentration on the mechanism of	25	2001000
5:30 PM	Girish, Vaishnavi	GUV assembly	25	3660008
3.30 1 141	Cirioti, Valorinavi	Cov assembly	Zoom	300000
Tuesday		ACS Award in Surface Chemistry 2022: Symposium in	Room 11	
3/22/2022	Oral - Virtual	honor of Miquel Salmeron	(Virtual Room)	COLL009D
		·	•	
10:00 AM	Meyer, Ernst	Force microscopy of 2d materials	30	3650834
10:30 AM	Martin Michael	Applications of broadband synchrotron infrared nano-	20	2654704
10.50 AIVI	Martin, Michael	spectroscopy Mixed Co/Fe oxides on Au(111) in the electrocatalytic	30	3651701
11:00 AM	Lauritsen, Jeppe	oxygen evolution	20	2651029
11.00 AIVI	Lauritsen, Jeppe	Resolving catalytic mechanism at an electrode surface	30	3651938
		by ultrafast spectroscopy while tuning surface		
11:30 AM	Cuk, Tanja	hydroxylation	30	3659811
	-			
12:00 PM	Jiang, Peng	Interface thermoelectrics	30	3655066
12.20 084	Michaelides Aradas	Understanding how water moves across the surfaces of		20505-15
12:30 PM	Michaelides, Angelos	materials with ultimate resolution	30	3656242
1:00 PM	Weatherup Behart	Observing reactions at buried interfaces under realistic	20	2002005
Wednesday	Weatherup, Robert	operating conditions	30	3662895
3/23/2022	Oral - Hybrid	Colloidal Gels	Room 22	COLLOGGE
3/23/2022	Oral - Hybrid	Colloidal Gels	(SDCC)	COLL002C

		Investigating silica-nanoparticle aggregation using in		
		situ small-angle X-ray scattering for optimization of		
8:00 AM	Kashanchi, Glareh	nanoparticle-based aerogels for window applications	20	3651726
		Thinking bigger in nanoscale assembly: Macroscopic		
8:20 AM	Macfarlane, Robert	materials built from annoparticle superlattices	30	3638150
8:50 AM	Kang, Jiho	Colorimetric quantification of linking in thermoreversible nanocrystal gel assemblies	20	3655951
0.5071141	Eychmüller,	thermoreversible named ystar ger assembles	20	3033331
9:25 AM	Alexander	Electrocatalysis on metal aerogels	30	3658171
		Nanoparticle-based aerogels as 3-dimensional		
9:55 AM	Niederberger, Markus	macroscopic photocatalysts Use of tunable orthogonal reversible covalent (TORC)	30	3656838
		bonding to control polymer morphology and		
10:25 AM	Anslyn, Eric	nanocrystal assembly	30	3638749
		Mutual polarization method for simulating the		
10:55 AM	Sherman, Zachary	plasmonic response of self-assembled nanoparticle gels	20	3658700
Wednesday 3/23/2022	Oral - Hybrid	Colloidal Gels	Room 22 (SDCC)	COLL002D
3, 23, 2022	Oral Hybria	Electrochemically-driven gelation of metal chalcogenide	(SDCC)	COLLOOZD
		colloids: Opportunities and challenges for design of		
2:00 PM	Brock, Stephanie	functional architectures	30	3642745
2:30 PM	Liu, Yun	Photonic colloidal gel driven by binary solvents	30	3639809
3:00 PM	Helms, Brett	Structuring liquids with chemically fueled interfacial assemblies	20	2654456
3.00 FIVI	neillis, brett	Self-assembly of gels, clusters, and other modulated	30	3651456
3:30 PM	Lindquist, Beth	phases via a physically informed model	30	3660864
		Characterizing and sampling the disordered		
4:10 PM	Charbonneau, Patrick	microphases of SALR models	30	3638103
4:40 PM	Olvera De La Cruz, Monica	Metallization of colloidal crystals	30	3658911
4.401101	Wienica	Arrested emulsion gels: Interpenetrating 3D structure	30	3030311
5:10 PM	Spicer, Patrick	and mechanical properties	30	3663840
		In-situ modification of cellulose-alginate beads: Anionic		
5:40 PM	Georgouvelas, Dimitrios	and cationic adsorbents for the removal of charged pollutants from mining wastewater	20	2650240
Wednesday	Diffictios	politicants from mining wastewater	20	3658349
3/23/2022	Oral - Hybrid	Surface Chemistry	Room 23A (SDCC)	COLL014C
2:20 PM	Liu, Haitao	DNA-Based strategies for site-specific doping of silicon	20	3654545
		Surface-attached polymer networks via C,H insertion		
2:40 PM	Ruehe, Juergen	crosslinking (CHic)	20	3659851
		Sequential thiol-(aryl-maleimide) 'click' chemistry for stable surface conjugation of biomolecules to		
3:00 PM	Myres, Grant	mesoporous silica	20	3662089
	•	Selective enrichment of the cancer biomarker		
	w. II	hypermethylated DNA by MBD2 surface receptor		
3:20 PM	Kolkman, Ruben	density control	20	3651968
3:50 PM	Garrett, Paul	Polymer modulated dynamics at the oil/water interface On the interaction of ionic liquids with single crystal	20	3654010
4:10 PM	Steinrueck, Hans-Peter	surfaces	30	3654126
· · ·	.,	Tuning the surface reactivity and tribological	33	300 1120
		performance of phosphonium-based ionic liquid by		
4:40 PM	Mangolini, Filippo	mixing bromide/phosphate anions	20	3656355
5:00 PM	Gebbie, Matthew	Cooperative ionic assembly governs carbon dioxide electrolysis in ionic liquid electrolytes	20	3661216
J.00 I W	Sessie, Mattiew	clear orysis in forme liquid electrolytes	20	3001210

		Probing anion adsorption at a charged surfactant monolayer interface with sum frequency generation		
5:20 PM	Wimalasiri, Pubudu	spectroscopy and molecular dynamics simulations	20	3662404
Wednesday 3/23/2022	Oral - Hybrid	Industry-Academia Dialogue	Room 23A (SDCC)	COLL029A
8:00 AM	Stebe, Kathleen	Industry-academe dialogue	180	3678920
Wednesday		Frontiers and Challenges in Nanoparticle-Mediated	Room 23B	
3/23/2022	Oral - Hybrid	Chemical Transformations Controlling morphology of Ni-Fe-based nanocatalysts	(SDCC)	COLL032D
8:00 AM	Chen, Jingyi	for oxygen evolution reaction	30	3662250
	2	Controlled synthesis of metal phosphide/metal		5552255
8:30 AM	Zhang, Sen	core/shell nanostructures for improved electrocatalysis	30	3655982
		Probing the influence of metal oxide nanoparticle		
9:00 AM	Austin, Rachel	surfaces in catalysis	30	3641717
9:30 AM	Eagan, Nathaniel	Design of dilute palladium-indium alloy catalysts for the selective hydrogenation of CO2 to methanol	30	3677756
3.307	Lagari, Natriamer	Atomistic characterization of physical and chemical	30	3077730
		characteristics of metal-nanoparticle/semiconductor		
10:10 AM	Linic, Suljo	interfaces on functioning water splitting photocatalysts	30	3656512
40.40.44		Applications of plasmonic catalysis to organic		
10:40 AM	Moores, Audrey	transformations Plasmonic photocatalysis with antenna-reactor	30	3662277
11:10 AM	Halas, Naomi	nanoparticle complexes	30	3641127
11.10 / ((v)	riaids, ivaoriii	Effect of CeO2 aerogel supports on the activity,	30	3041127
		speciation, and stability of nickel and copper		
11:40 AM	DeSario, Paul	nanoparticles for CO oxidation	20	3662170
Wednesday			Room 23B	
3/23/2022	Oral - Hybrid	Controlled Assembly of Charged Soft Matter	(SDCC)	COLL034A
2:05 PM	Kim, Baekmin	Metal-polymer framework monolayers at oil/water interfaces	20	3643534
2.03 1 101	Kiiii, backiiiiii	Transfer imprinting of photonic microparticle array	20	3043334
2:45 PM	guang, chu	through self-assembled nanocellulose 'glue'	20	3648774
		Modeling of superionic nanoparticles lattices and		
3:05 PM	Kral, Petr	superparamagnetic nanoparticle clusters	20	3657809
3:40 PM	Zanotoczny Szczonan	Nanocapsules based on amphiphilic polyelectrolytes serving as dispersible reactors	20	2050222
3.40 PW	Zapotoczny, Szczepan	Multiphase complex coacervate droplets from two-	20	3658223
4:00 PM	Edwards, Chelsea	polyelectrolyte systems	20	3662135
	·	Conjugated polyelectrolyte-based complex fluids as		
4:20 PM	Johnston, Anna	aqueous exciton transport networks	20	3662165
Wednesday	Onel de manage	Newsweetswiste	Room 24A	
3/23/2022	Oral - In-person	Nanomaterials Bright, low-energy excitable and fluorescence-long-lived	(SDCC)	COLL012F
		Mn-doped I(II)-III-VI nanocrystals for time-gated		
8:00 AM	Zhu, Xiaoshan	fluorescence measurement	20	3648771
		Interfacial assembly of liquid-exfoliated 2D materials:		
8:20 AM	Ogilvie, Sean	Nanosheet-stabilized emulsions and thin-film devices	20	3653640
		Ultrasensitive molecular sensors based on real-time		
8:40 AM	Moore, David	impedance spectroscopy in solution-processed 2D materials	20	3662296
0.40 AIVI	Widdic, David	Atomic-resolution imaging of small molecule assemblies	20	3002230
9:00 AM	Kharel, Priti	on graphene	20	3661074
		Size selection of liquid-exfoliated graphene results in		
9:20 AM	Clifford, Keiran	record-high electrical conductivity in printed networks	20	3649241
10.00 444	Wood, Hannah	Size-dependent porosity defines conductivity in liquid- exfoliated nanosheet networks	22	2000720
10:00 AM	vvoou, maililali	eviolitren Hallozheer Hermorkz	20	3660736

		Aqueous MXene dispersion rheology & phase behavior:		
10:20 AM	Woods, Mackenzie	Effects of sheet size	20	3661171
10.207	Woods, Wackenzie	Synthetic manipulation of dimensionality and strain in	20	3001171
10:40 AM	Kempa, Thomas	transition metal dichalcogenide nanocrystals	20	3662375
		Molecular interactions of Ti3C2 MXenes with N-		
		substituted zwitterionic biological buffers and their		
11:00 AM	Ambade, Swapnil	impact on MXenes' properties	20	3657796
		Training a machine learning model to predict metal		
11:20 AM	Hudson, Blake	release from complex metal oxide surfaces	20	3661237
Wednesday 3/23/2022	Oral - In-person	Nanomaterials	Room 24A	60110136
3/23/2022	Orai - III-person	Mechanical properties and deformation behavior of	(SDCC)	COLL012G
2:00 PM	Yee, Daryl	self-assembled nanoparticle superlattices	20	3655518
		Noncovalent complexation and assembly of Boron		0000010
2:20 PM	Vitale, Jacob	nitride nanotubes using biomolecules	20	3658643
		Hydrogel and coacervate formation from uranyl		
		peroxide clusters through counterion-mediated		
2:40 PM	Yang, Yuqing	attraction	20	3651409
2.00 DM	Cialagla aglara Damus	Comparison of linear, cyclic, and aromatic reagents in		
3:00 PM	Siahcheshm, Parya	nitrogen-doped carbon dots Ultrathin hard magnetic coatings with perpendicular	20	3638895
3:20 PM	Chumakov, Andrei	strong anisotropy by a spray deposition technique	20	3642812
3.2011	chamakov, marci	Synthesis and quantum metrology of metal-organic	20	3042012
		framework-coated nanodiamonds containing nitrogen		
4:00 PM	Crawford, Scott	vacancy centers	20	3643141
		Metal-organic nanowire-like entities on silicon		
		fabricated by interfacial electron beam lithography		
4:20 PM	Sagiv, Jacob	exhibit puzzling electrical conduction	20	3656579
E-00 DM	Danier Danierske	Fluorine and tin co-doped indium oxide nanocubes for		
5:00 PM	Roman, Benjamin	tunable IR plasmonics Revealing nanocluster beacon design rules using an NGS	20	3658631
5:20 PM	Kuo, Yu-An	chip	20	3650497
3.20	140) 14711	Effect of morphology on WO3-x carrier effective mass	20	3030437
5:40 PM	Kuszynski, Jason	investigated through magnetic circular dichroism	20	3658397
			Room	
Wednesday			20BCD Theater 4	
3/23/2022	Oral - In-person	Biomaterials and Biointerfaces	(SDCC)	COLL016C
0.05.444		Molecular-level insights into novel wet adhesion		
8:05 AM	Baio, Joe	systems found in the natural world.  Versatile RNA membrane-coated microneedles for	20	3655811
8:25 AM	Kim, Dajeong	subcutaneous drug delivery	20	3656202
0.23 AIVI	Killi, Dajeong	Relationship between hydrophobicity and drug-protein	20	3030202
		binding in human serum albumin: A quartz crystal		
8:45 AM	Alhankawi, Ahmad	microbalance study	20	3656884
		Modulating nanoparticle size to understand factors		
		affecting hemostatic efficacy and maximize survival in a		
9:05 AM	Hong, Celestine	lethal inferior vena cava injury model	20	3657213
0.40 414	Cala Mastilas	Adsorption and film formation of immunoglobulins on		
9:40 AM	Gole, Matthew	wrinkled and crumpled surfaces Cationic cholic acid derivatives as potential	20	3657532
10:00 AM	Kurnaz, Leman	antimicrobial agents	20	3657595
20.00 / ((V)	Leman	Influence of lipid specificity on dysferlin C2A-lipid	20	3037333
10:20 AM	Carpenter, Andrew	binding interactions	20	3657734
			Room	
Wednesday			20BCD Theater 4	
3/23/2022	Oral - In-person	Biomaterials and Biointerfaces	(SDCC)	COLL016D
				33

		Orientation analysis of hierarchically oriented molecular self-assembled systems with line scanning vibrational sum frequency generation hyperspectral microscopy		
2:05 PM	Wu, Zishan	and machine learning Uncovering the mechanisms of daptomycin antibiotic	20	3657804
2:25 PM	Yeh, Shang-Lin	removal using engineered ion exchange resins Surface-attached polymer networks for glaucoma	20	3659769
2:45 PM	Prucker, Oswald	surgery Function-adaptive clustered nanoparticles reverse	20	3659808
3:05 PM	Ostadhossein, Fatemeh	Streptococcus mutans dental biofilm and maintain microbiota balance Graphene-based platform for investigation of protein	20	3659815
3:40 PM	Zhao, Xiao	assembly by infrared nanospectroscopy Understanding design rules for optimizing the interface	20	3660012
4:00 PM	Sanchez-Moran, Hector	between enzymes and copolymer brushes Towards non-stick silk: Controling the hydrophobicity of	20	3660151
4:20 PM	Fountain, Julia	silk fibroin protein	20	3660492
			Room 20BCD	
Wednesday 3/23/2022	Oral - In-person	Basic Research in Colloids, Surfactants and Interfaces	Theater 5	COLL 01.05
3/23/2022	Orai - III-persori	Effect of cellulose/Fe3O4 and lignin/ Fe3O4	(SDCC)	COLL018E
	Hasan, Mohammad	nanoparticles on the ternary liquid/liquid equilibrium of		
8:00 AM	Jahid	castor oil/water/ethanol mixtures	20	3656946
		Interchain hydrogen bonding drives the coacervation of		
8:20 AM	Liu, Xinhao	non-ionic polyamides and poly(ester amide)s	20	3661856
8:40 AM	Parajuli, Sanjiv	Characterization of liquid-liquid interfaces stabilized by chitin and cellulose nanocrystals	20	3656843
0.40 AIVI	i arajun, Janjiv	Thermodynamic analysis of the stability of the wetting	20	3030843
9:00 AM	Yoon, Roe-Hoan	films formed on hydrophobic gold surfaces	20	3653909
	·	Precipitation dynamics of respiratory fluid sessile		
9:20 AM	Rasheed, Abdur	droplets on impermeable surfaces	20	3658214
		Effect of growth dynamics on polymer wetting at fluid		
9:40 AM	Wei, Xiaoshuang	interfaces via initiated chemical vapor deposition (iCVD)	20	3661712
10:00 AM	Piner, Emily	Tunable barrier and mechanical properties of bacterial nanocellulose composite films	20	3677692
10.00 AW	i iller, Ellilly	Coloration by total internal reflection and interference	20	3077092
10:20 AM	Zarzar, Lauren	at microscale interfaces	20	3645487
Wednesday		Synthetic Amphiphiles and Formulations for the	Room 23C	
3/23/2022	Oral - In-person	Delivery of Drugs, Nucleic Acids and Proteins	(SDCC)	COLL030A
		Oxidation-responsive elastin-like polypeptide		
8:00 AM	Garanger, Elisabeth	conjugates for PDT/RDT applications	30	3658545
8:30 AM	Fujii, Shota	Effect of PEG molecular weight on the in vivo fate of PEGylated core cross-linked nanoparticles	30	3655043
0.50 AIVI	r ajii, Silota	Cleavable polymer amphiphiles for enhanced	30	3033043
9:00 AM	Brega, Valentina	photodynamic therapy	30	3642954
		Well-defined pH-responsive self-assembled block		
		copolymer for effective co-delivery of doxorubicin and		
9:45 AM	Mohamed, Mohamed	antisense oligonucleotide to breast cancer cells	30	3661965
		Interfacial-engineered self-assembled block copolymer		
10:15 AM	Ilies, Marc	micelles for efficient docetaxel delivery in breast cancer therapy	30	3678136
10.13 AIVI	cs, ware	Morphology, partitioning and pharmacological	30	20.0120
10:45 AM	Kabanov, Alexander	performance in block copolymer systems	30	3677996
			Room	
Wednesday		Synthetic Amphiphiles and Formulations for the	20BCD Theater 5	
3/23/2022	Oral - In-person	Delivery of Drugs, Nucleic Acids and Proteins	(SDCC)	COLL030B
				2.1

2:00 PM	Dhiling Laura	Label-free viability assay using holographic video	20	2677740
2.00 PIVI	Philips, Laura	microscopy Improving pharmacokinetics and enhancing the	30	3677740
2:30 PM	Aryal, Santosh	contrast of gadolinium-based contrast agents	30	3677725
2.30 1 141	, ii yai, santosii	Carbonic anhydrase IX- targeted nanosystems for	30	3077723
3:00 PM	Ilies, Marc	doxorubicin delivery to hypoxic tumors	30	3678968
	,	Novel cyclodextrin-based nanoparticle delivering alpha		
3:45 PM	Sakurai, Kazuo	mangostin to treat brain ischemia	30	3657927
		Targeted lipid nanoparticle platform for in vivo Delivery		
4:15 PM	Parhiz, Hamideh	of mRNA therapeutics	30	3678109
		Hidden danger in lipid nanoparticles and other gene		
		therapy vectors: Pre-existing diseases dramatically		
4 45 54 4		impact nanotoxicology, but solutions will not remain		
4:45 PM	Brenner, Jacob	hidden	30	3678085
Wednesday 3/23/2022	Oral - In-person	Frontiers and Challenges in Nanoparticle-Mediated Chemical Transformations	Room 23C	60110335
3/23/2022	Orai - III-person	Manipulating the structure and properties of noble	(SDCC)	COLL032E
2:00 PM	Ross, Michael	metal nanoparticles using post-transition elements	30	3656333
2.001101	NO33, WIICHael	Hole scavengers: An important factor in photocatalytic	30	3030333
		reduction of nitrobenzene using cadmium sulfide		
2:30 PM	Mureithi, Ann	quantum Dots (CdS QDs)	20	3660376
	•	Composition and morphology controls of halide		
		perovskite nanocrystals for photocatalysis and		
2:50 PM	Chen, Ou	optoelectronic applications	30	3643080
		Roles of gold and silver nanoparticles in photocatalysis		
3:20 PM	Wu, Nianqiang	and photoelectrocatalysis	30	3655376
	<u>.</u>	Shape-controlled Cu nanocrystals to unlock selectivity		
4:30 PM	Buonsanti, Raffaella	pathways in the electrochemical CO2 reduction reaction	30	3659718
		Strategies toward shape-controlled multimetallic		
5:00 PM	Ye, Xingchen	copper-based nanocrystal catalysts	30	3668333
5:30 PM	Huang Vu	Understanding the nanoscale structure-function	20	2662402
3.30 PIVI	Huang, Yu	relation in Pt-alloy ORR catalysts	30 Zoom	3662493
Wednesday		Biomembrane Synthesis, Structure, Mechanics, and	Room 11	
3/23/2022	Oral - Virtual	Dynamics	(Virtual	COLL004G
3/23/2022	Orai - Virtuai	Controllable polymer nano-ring synthesized via a lipid	Room)	COLLU04G
10:00 AM	Liu, Chung-Hao	self-assembled template	25	3657307
201007	,	Loss of plasma membrane lipid asymmetry can induce	23	3037307
10:25 AM	London, Erwin	ordered domain (raft) formation	25	3652206
		Relationship between viscosity and acyl tail dynamics in		
10:50 AM	Nagao, Michihiro	lipid bilayers	25	3651161
		Mechanical mechanism for E-cigarette/vaping		
11:15 AM	Marquardt, Drew	associated lung injury (EVALI)	25	3653788
		Erythro-PmBs: A novel polymyxin B delivery system		
		using antibody-conjugated hybrid erythrocyte		
11:40 AM	Krivic, Hannah	liposomes	25	3657182
12.0F DN4	Maltagya Cafiya	Disease-associated mutations in α-synuclein affect	25	2664572
12:05 PM	Maltseva, Sofiya	binding-site identity and affinity for lipid-membranes  Mathematical model for the dependence of peripheral	25	3661579
12:30 PM	Kerr, Daniel	membrane binding proteins on lipid composition	25	3656792
12.50 1 101	Kerry Burller	memorane smanig proteins on lipid composition	Zoom	3030732
Wednesday		Biomembrane Synthesis, Structure, Mechanics, and	Room 12	
3/23/2022	Oral - Virtual	Dynamics	(Virtual Room)	COLL004H
5, 25, 2522	J. SI FILLWAI	Amantadine interacts with disordered lipids in phase	Noonij	COLLOUTII
3:00 PM	Kinnun, Jacob	separated membranes	25	3659542
	•	•	-	<del>-</del>

		Heavy water influences the memcapacitive behavior of biomimetic membranes suitable for neuromorphic		
3:25 PM	Scott, Haden	devices Soft, biologically inspired materials for neuromorphic	25	3651727
3:50 PM	Collier, Charles	memristors and memcapacitors	25	3659307
4.1 F DN4	Dadalala, Kira	Semisynthesis of functional transmembrane proteins in	25	2627424
4:15 PM	Podolsky, Kira	giant vesicles Amino acid effects on solute partitioning into model	25	3637421
4:40 PM	Walker, Robert	biological membranes	25	3661263
5:05 PM	Duncan, Katelyn	Quantitative membrane partitioning studies of ecologically relevant synthetic organic molecules	25	3662158
3.03 1 101	Barreari, Nacciyii	Dipolar coupling and phase segregation in mixed	23	3002130
		deuterated and protiated phospholipid vesicle		
5:30 PM	Kitt, Jay	membranes	25 Zoom	3662450
Wednesday			Room 6	
3/23/2022	Oral - Virtual	Basic Research in Colloids, Surfactants and Interfaces	(Virtual Room)	COLL018A
-,,		Patterning organosilane nanostructures using particle	,	00220207
3:00 PM	Mullen, Thomas	lithography	20	3643097
		Effects of macromolecular crowding on the formation		
3:20 PM	Chapman, Sarah Raufman, Benjamin	and properties of complex coacervates	20	3658522
3:40 PM	Devadas, Mary Sajini	Novel cobalt-doped bi-icosahedron Au25-xCox clusters	20	3649050
		Effects of head group volume on the aggregation of 1-		
		(n-hexadecyl)-3-Cm-imidazolium bromide and chloride		
4:00 PM	El Seoud, Omar	surfactants in aqueous solutions	20	3651028
		Molecular dynamics analysis of the frequency- dependent dielectric response of water/AOT/isooctane		
4:20 PM	Lee, Min-Sang	reverse micelles	20	3637232
	zee, wiii sang	Fluorescence analysis of Hofmeister anion interactions	20	3037232
4:40 PM	Mumma, Olivia	with coumarin	20	3638127
		Self-assembly of fatty acid on aminopropyl		
5:00 PM	Ma, Yingzhen	functionalized silica nanoparticles	20	3660570
F.20 DM	Chan Vieneum	Stable CO2/water foam with ultralow concentration of amine-coated-nanoparticles and surfactant		
5:20 PM	Chen, Xiongyu	Toward ready-to-go libraries of environmental	20	3661315
		amorphous surfaces to allow rapid, accurate estimation		
5:40 PM	Alexander, William	of organic contaminant interfacial behavior	20	3662414
		Effect of chemical species on the structure and		
6:00 PM	Nishizawa, Yuichiro	thermoresponsiveness of hydrogel microspheres	20	3656461
	Venkateshwarlu,	Effect of surface wettability on droplet formation in a		
6:20 PM	Akepogu	cross-flow microfluidic system Paper based biosensors for early detection of oral	20	3648447
6:40 PM	Mitra, Subhadeep	cancer from salivary biomarkers	20	3653325
0.4011	With a Submadeep	cancer from sanvary biomarkers	Zoom	3033323
Wednesday			Room 7 (Virtual	
3/23/2022	Oral - Virtual	Controlled Assembly of Charged Soft Matter	Room)	COLL034B
		Non-close-packed arrangement of soft elastomer		
		microspheres using self-organization at the air/water		
10:05 AM	Sasaki, Yuma	interface  High throughput synthosis and self assembly screening	20	3646826
10:25 AM	Jennings, James	High throughput synthesis and self-assembly screening of multi-tailed lipidoids	20	3660187
TO.CJ MIVI	Jennings, James	Cross-linked polyelectrolyte complex nanoparticles for	20	200018/
10:45 AM	Chen, Xiongyu	controlled release in seawater	20	3661218
		Particle-integrated complex coacervates and the role of		
11:05 AM	Santore, Maria	surface brushes	20	3662371 <b>3</b> 6
				- 50

Thursday 3/24/2022	Oral - Hybrid	Colloidal Gels	Room 22 (SDCC)	COLL002E
3, = 1, = 3 = 1	0.0, 0.10	Time-composition superposition principle in	(3500)	COLLOUZE
8:00 AM	Morlet-Decarnin, Lise	suspensions of cellulose nanocrystals Phase diagram and rheology of polymer-carbon black	20	3658407
8:20 AM	Legrand, Gauthier	aqueous suspensions Colloidal metal oxide nanocrystal gels via depletion	20	3656498
8:40 AM	Saez Cabezas, Camila	attractions Structure and rheology of diverse physical gels and	30	3646190
9:25 AM	Osuji, Chinedum	jammed liquid crystals	30	3661033
9:55 AM	Hsiao, Lilian	Spatiotemporal heterogeneities in flowing colloidal gels	30	3653635
		Defining the structure and properties of colloidal rod		
10:25 AM	Schultz, Kelly	systems during dynamic phase transitions	30	3656335
Thursday	Orași - Hadarid	Confere Chamiston	Room 23A	
3/24/2022	Oral - Hybrid	Surface Chemistry Revealing the surface structure of CdSe nanocrystals by	(SDCC)	COLL014D
		dynamic nuclear polarization-enhanced 77Se and 113Cd		
8:00 AM	Chen, Yunhua	solid-state NMR spectroscopy	20	3642722
	•	Heterojunctions of Pd nanocluster on monolayer MoS2		
8:20 AM	Bae, Gi Nam	for light induced room temperature hydrogen sensing	20	3653168
		Qualitative analysis of colloidal nanocrystal surface		
		chemistry: Effects of purification, characterization of		
0.40 414	Van Battan Baul	complex surface ligand mixtures and desorption	20	2657020
8:40 AM	Van Patten, Paul	activation energies via TD-DART-MS Thermal desorption direct analysis in real-time mass	20	3657829
		spectrometry: A new method for colloidal nanocrystal		
9:00 AM	Cavey, Kevin	surface ligand characterization	20	3658103
	,,	Interactions of environmental species with pristine and		
9:20 AM	Bobbitt, Scott	defective MoS2	20	3650246
		Interface sensitivity in electron/ion yield X-ray		
10:20 AM	Zhao, Xiao	absorption spectroscopy: the TiO2–H2O interface	20	3659979
		First principles and thermodynamics modeling of		
10:40 AM	Rivera, Victoria	Ti3C2T2 (T = O, OH, F, O/F, O/OH, OH/F) MXene surface terminations at varying pH	20	3661289
10.40 AW	Mivera, victoria	Reactions of alpha-pinene with SO2 and NO2 on	20	3001209
11:00 AM	Hettiarachchi, Eshani	hematite surface	20	3662177
	·	Reconstructing the surface of colloidal lead halide		
11:20 AM	Wang, Chen	perovskite nanocrystals for functionalization	20	3660597
Thursday			Room 23B	
3/24/2022	Oral - Hybrid	Biomaterials and Biointerfaces	(SDCC)	COLL016E
8:05 AM	Alvarado, Juan	Role of extracellular polymeric substances in the wetting properties of biofilms	20	2001210
6.US AIVI	Alvarado, Juair	Expanding a non-evolutionary aptamer screening	20	3661310
8:25 AM	Milam, Valeria	approach to gold nanoparticle targets	20	3661376
	,	Peptide-directed synthesis and solid-state NMR		
8:45 AM	Li, Yuan	characterization of hydroxyapatite nanosheets	20	3661391
		Microphase separation of resilin-like and elastin-like		
		diblock copolypeptides in concentrated solutions and		
9:20 AM	Zauscher, Stefan	surfaces	20	3661636
9:40 AM	Frey, Shelli	Interaction of the huntingtin N-terminal sequence with model cell membranes	20	2661671
J.40 AIVI	ricy, onem	Post-fabrication RGD-functionalized 3D-printed	20	3661671
		scaffolds for migration of human dermal fibroblasts and		
10:00 AM	Tseng, Yen-Ming	their application in excisional wound rat model	20	3661908

		Properties, characterization and applications of ceria nanoparticles as biomimetic materials in bioanalysis and		
10:20 AM	Andreescu, Emanuela	beyond	20 Room 20BCD	3691065
Thursday	Oral In norson	Pacis Passaysh in Callaids Surfactants and Interfaces	Theater 5	60110405
3/24/2022	Oral - In-person	Basic Research in Colloids, Surfactants and Interfaces Varied molecular weight polyethylene oxide (PEO) and	(SDCC)	COLL018F
		butyl acrylate modified comb polymers as potential		
8:00 AM	Hinnant, Katie	additives for firefighting foams	20	3645259
		Sonochemically engineered hybrid metal/bio-based		
		nanoparticles coating for prevention of P. aeruginosa		
8:40 AM	Puertas, Antonio	biofilm formation on contact lenses	20	3656412
		Using in situ small-angle X-ray scattering to examine		
		structural changes of silica aerogels dried under directional flow at ambient pressure for window		
9:00 AM	Kashanchi, Glareh	insulation applications	20	2657050
9.00 AIVI	Kasilalicili, Glareli	Heteroacene-based amphiphilic fluorescent	20	3657858
9:20 AM	Ranathunge, Tharindu	nanoparticles for bioimaging	20	3661558
9:40 AM	Chandrawati, Rona	Polydiacetylene-based sensors to detect food spoilage		
	•		20	3653424
10:00 AM	AHN, Dong June	Antifreezing peptide-Au colloids	20	3653430
10.20 414	Cray Daminia	Degradable dual-responsive core-shell nanogels with		
10:20 AM	Gray, Dominic	tuneable aggregation behaviour Settling behaviour of colloidal fine cuttings in fiber-	20	3653739
10:40 AM	Nasser, Mustafa	containing polyanionic drilling fluids	20	3648941
Thursday	ivasser, iviastara	Synthetic Amphiphiles and Formulations for the		3046541
3/24/2022	Oral - In-person	Delivery of Drugs, Nucleic Acids and Proteins	Room 23C (SDCC)	COLL030C
-, , -	p	Molecular bottlebrush for delivering	(0=00)	
8:00 AM	Takano, Shin	immunostimulatory CpG ODN	30	3671509
		Aerosol-mediated non-viral lung gene therapy: A		
8:30 AM	Montier, Tristan	structure/activity nanocomplexes' study.	30	3677722
		In vivo nucleic acid delivery systems for		
9:00 AM	Mitchell, Michael	immunoengineering and gene therapy	30	3667973
		Surface engineered functional two-dimensional		
9:45 AM	Stanciu, Lia	materials for viral nucleic acid sensing	30	3668185
10.15.484	Mindrey Allehalar	Formulation and in vivo delivery of mRNA using		
10:15 AM	Fischer, Nicholas	functionalized HDL-mimetics  Delivering RNA to non-liver tissues by testing thousands	30	3677731
10:45 AM	Dahlman, James	of nanoparticles in vivo	20	2671400
Thursday	Damman, James	Frontiers and Challenges in Nanoparticle-Mediated	30	3671498
3/24/2022	Oral - In-person	Chemical Transformations	Room 24A (SDCC)	COLL032F
-,,	регост	New strategies to the design of nanocatalysts for	(3500)	COLLOSE
8:00 AM	Sun, Shouheng	selective CO2 reduction	30	3656331
		Co2-xRhxP nanoparticles as electrocatalysts for the		
		hydrogen production: Catalytic stability and Pt		
8:30 AM	Batugedara, Tharanga	interference	20	3651442
			Zoom Room 7	
Thursday		Biomembrane Synthesis, Structure, Mechanics, and	(Virtual	
3/24/2022	Oral - Virtual	Dynamics	Room)	COLL004I
		Electron videography of nanoscale dynamics in		
10:00 AM	Chen, Qian	membrane protein nanodiscs	25	3657626
		Self-assembly driven by solvation at liquid/liquid		
10.25 484	Doughty Danis	interfaces: A passive means to impart surface		0.5555
10:25 AM	Doughty, Benjamin	functionality C. albicans virulence factor Candidalysin must assemble	25	3658508
10:50 AM	Barrera, Francisco	into polymers in solution to form the membrane pores	25	2651420
TO: OO AIVI	Dairera, Francisco	into polymers in solution to form the membrane poles	25	3651428

11:15 AM	Heberle, Frederick	Development of cryo-EM for probing lateral organization in biomembranes  Post bilayer formation direct injection for studying	25	3658557
11:40 AM	Mashali, Farzin	nanoparticle-membrane interactions in droplet interface bilayers Hybrid droplet interface bilayers (hDIB) formed from	25	3654057
12:05 PM	koner, subhadeep	lipids and amphiphilic copolymers: Toward improved biomimetic membranes Entrapment of hydrophobic nanoparticles in planar lipid bilayers for electrophysical analysis of particle-	25	3650522
12:30 PM	Basham, Colin	membrane interactions	25 Zoom	3644801
Thursday 3/24/2022	Oral - Virtual	Nanomaterials	Room 2 (Virtual Room)	COLL012A
10:00 AM	Hinrichs, Karsten	Infrared and Raman spectroscopic analysis of local electrochemical modification of graphene Enhanced water evaporation through functionalized	20	3660133
10:20 AM	Ronghe, Anshaj	nanoporous graphene Switching the interface work function via a bi-stable	20	3656171
10:40 AM	Hörmann, Lukas	molecule on Pt(111) Ion adsorption on graphene oxide monolayers at the	20	3659143
11:00 AM	Carr, Amanda	air/water interface  Does interfacial energy contribute to the stabilization of	20	3652838
11:20 AM	Chakrabarti, Arkita	3D-nanostructured perovskite phase CsPbI3? Adsorption and catalytic activity of gold nanoparticles	20	3650222
11:40 AM	Ma, Yingzhen	under confinement: Effect of pore size and dispersion salinity Effects of surfactant chemistry and polymer choice on	20	3656888
12:20 PM	Sims, Christopher	single-wall carbon nanotube extraction conditions in aqueous two-polymer phase extraction LCTEM as tool for growth analysis of metal-organic	20	3660712
12:40 PM	Vailonis, Kristina	nanotubes Strong electron-phonon coupling in 2D silver phenyl	20	3654178
1:00 PM	Powers, Eric	selenolate revealed by impulsive vibrational spectroscopy DNA-poly-L-lysine polyplex Core@Gold shell	20	3661411
1:20 PM	LEE, WON KYU	nanostructures for photothermal therapy Directional water vapor transfer Janus micronano	20	3649158
1:40 PM	Deng, Tong	spherulite membranes for particulate matter filtration and high efficiency broad-spectrum sterilization	20 Zoom	3657365
Thursday 3/24/2022	Oral - Virtual	Surface Chemistry	Room 2 (Virtual Room)	COLL014A
3:00 PM	Hu, Shujun	Tracing the defect of the metal oxide surfaces by small probing molecule and IR spectra	20	3643263
3:20 PM	Frederick, Esther	Area-selective atomic layer deposition templated by atomic precision fabrication Influence of substrate and intermolecular interactions	20	3651209
3:40 PM	Primera, Oliva	on the vibrations of supported polyoxometalate spin qubits	20	3659603
4:00 PM	Jeindl, Andreas	Why are polymorphs of acenequinones on Ag(111) so different? Theoretical and experimental insights on N-heterocyclic	20	3658389
4:20 PM	Tosoni, Sergio	carbenes adsorption on copper, and copper-supported oxide thin films	20	3658032

		Carbon particulate adsorption to aqueous – air		
4:40 DN4	Charles Nitala	interfaces and their effects on model biological		
4:40 PM	Shaikh, Nida	membrane structure and organization	20	3661680
F.OO DN4	Hassaini Mahsan	Efficient inactivation of SARS-CoV-2 and killing of	20	2655762
5:00 PM	Hosseini, Mohsen	bacteria using transparent silver oxide coating	20	3655763
E.20 DN4	Mang lianghag	Insights into adsorption of humic substances on various graphitic carbon nitride	20	2655402
5:20 PM	Wang, Jianchao	Substrate-induced charge transfer influencing	20	3655183
		multilayer growth: Insights from DFT and machine		
5:40 PM	Calcinelli, Fabio	learning	20	2650702
3.40 F W	Calcinelli, i abio	Dual-loop active learning method to study the	20	3658782
6:00 PM	Kelkar, Atharva	hydrophobicity of chemically heterogeneous surfaces	20	3641794
0.00 F W	Keikai, Atliaiva	Pressure driven flow of ionic liquid through	20	3041/94
		asymmetrically charged contraction-expansion		
6:20 PM	Dhakar, Jitendra	microfluidic device	20	3659310
0.2011	Briakar) steeriara	Interest and a device	Zoom	3033310
Thursday			Room 7	
3/24/2022	Oral - Virtual	Biomaterials and Biointerfaces	(Virtual	COLL016F
3/24/2022	Oral - Virtual	Transparent surface coatings that kill antimicrobial-	Room)	COLLUIDE
		resistant bacteria and inactivate the COVID-19 virus		
3:05 PM	Behzadinasab, Saeed	within minutes	20	3644946
3.03 1 141	benzaamasas, saeca	Engineered nanotopography on 3D-printed polymer	20	3044340
3:25 PM	Patil, Deepak	scaffolds to impart mechanobactericidal property	20	3648464
	, - сери	Modularly designed polyacrylate microgels for	20	30.0.0.
3:45 PM	Clem, Carlie	antibacterial activity against Staphylococcus aureus	20	3649311
	•	Influence of efflux on molecular transport across		
4:05 PM	Li, Yujie	bacterial membranes	20	3651049
	-	Mimics of natural organelles and cells by equipping		
		synthetic compartments with stimuli-responsive		
4:25 PM	Palivan, Cornelia	assemblies and biomolecules	20	3652176
		Polyelectrolyte-based biomaterials: Influence on		
5:00 PM	Van Tassel, Paul	protein structural stability	20	3654365
		Surface chemistry, crystal structure, size and		
		topography role in the albumin adsorption on TiO2		
5:20 PM	Raffaini, Giuseppina	Anatase: A molecular dynamics study	20	3656239
		Development of photocrosslinkable Kappa-carrageenan		
		bioink to fabricate cell-laden scaffolds with high		
5:40 PM	Kumari, Sushma	cytocompatibility	20	3656587
6:00 PM	Schlenoff, Joseph	Orthogonal strategies for biocompatible surfaces	20	3656831
	Ducker, William			
6:20 PM	Hosseini, Mohsen	Role of surface porosity in antimicrobial coatings	20	3657427