

Session	Soundbite	First Name	Last Name	Affiliation	Title
1		Rachel	Cooke	UNC Chapel Hill	Synthesis and Assembly of Biohybrid Polymer Libraries
1		Benjamin	Allen	UNC Chapel Hill	Mapping the Morphological Landscape and Dynamics of Peptide-Polymer Amphiphiles
1		Hilary	D. Fokwa	UNC Chapel Hill	The Crystallization Driven Self-Assembly of All-Conjugated Polymer For Soft Nanowire Heterojunctions by Hilary D. Fokwa
1		Rachael	Ditzler	UNC Chapel Hill	Vinyl Polymers from Polyesters via the Ireland-Claissen Rearrangement
1		Riley	Dowdy-Green	NC State University	Thermoresponsive nanoemulsion-laden hydrogels for the diffusion of active ingredients
1		Jessica	Garcia	UNC Chapel Hill	Injectable networks with tissue-mimetic mechanics and gelation behavior
1		Ethan	Frey	NC State University	Laser Fabrication of a Liquid Metal-Graphene Composite for Stretchable Electronics.
1		Drake	Johnson	UNC Chapel Hill	Carbodiimide Ring-Opening Metathesis Polymerization
1		Andrew	King	UNC Chapel Hill	A Chain-Growth Mechanism for Conjugated Polymer Synthesis Facilitated by Dinuclear Complexes with Redox-Active Ligands
1		Erin	Krist	UNC Chapel Hill	Templating Trapped Entanglements in Polymer Networks
1		Benjamin	Kruse	UNC Chapel Hill	Templating Entanglements in Polymer Networks
1		Yug Chandra	Saraswat	NC State University	Creeping flows in rough and smooth colloids
1		Emily	Schmidt	NC State University	Wetting and Tribological Properties of PEO-b-PDMS
1		Sebastian	Sensale	Duke University	Stochastic Modeling Approaches for Reaction Rates in Nanoscale Systems
1		Joshua	Socolar	Duke University	Ultra-stable shear jammed states in a granular material
1		Rony	Waheibi	NC State University	Network characterization of anisotropic colloidal particles
1		Shu	Wang	Duke University	A Covalent Toughening Mechanism of Polymer Networks Using Inherent Loops
1		Yunxin	Yao	Duke University	Mechanical Responses of Restructured Double Network Hydrogels with Metal-Ligand Interaction
1		Adam	Bachmann	NC State University	Laser Self-folding Printed Circuit Boards
1		Shourie	Yerabati	NC State University	Mechanics of Colloid-Laden Elastomer Composites
1		Mitchell	Maw	UNC Chapel Hill	Tuning adhesion by architecture
1		Maggie	Daly	UNC Chapel Hill	Bioinspired spindle-like assembly using peptide-DNA nanotechnology
1		Ryan	Fuierer	Oxford Instruments Asylum Research	Characterization of Soft Materials using Atomic Force Microscopy
1		Behzad	Golshaei	Duke University	Mechanical properties of suspended cells: manipulation with optical tweezers and modeling as osmotically pressurized shell
1		Jake	Jagannathan	UNC Chapel Hill	Resolution Polymerizations of O-carboxyanhydrides
1		Tushar	Sakorikar	NC State University	Electromechanical and Electrical Transport in Soft Systems
2		Rachel	Bang	NC State University	Liquid shear-based nanofabrication of a plethora of soft polymeric morphologies
2		Victoria	Barber	UNC Chapel Hill	Leveraging C-H Functionalization for the Development of Degradable Polymers
2		Abhirup	Basu	NC State University	Soft microbeads with confined hierarchical assemblies of magnetic nanoparticles
2		Meredith	Borden	UNC Chapel Hill	Leveraging Latent Catalysis to Diversify Materials' Properties in Additive Manufacturing
2		Supraja	Chittari	UNC Chapel Hill	Mapping energy landscapes of thermosensitive polymers
2		Ivan	Cockman	NC State University	Synthetic Strategies Towards Higher Azaacenes
2		Scott	Danielsen	Duke University	Surface Layer Adsorption and Bulk Association of Mucins in Human Airway Mucus
2		Erin	Day	UNC Chapel Hill	Sequence-Dependent Hydrophobic Collapse of Peptidomimetics
2		Hannah	Dedmon	NC State University	
2		Marcello	DeLuca	Duke University	Long-Timescale Dynamic Self Assembly of DNA Nanostructures Captured using Switchable Forcefield Coarse-Grained Model
2		Nidhi	Diwakar	NC State University	Active particle propulsion due to temporally asymmetric AC fields
2		Anna	Fraser	UNC Chapel Hill	Rodlike v kinked: the role of polyamide geometry in salt exclusion membranes
2		Melanie	Ghelardini	NC State University	3D Printed Photothermally Responsive Hydrogels
2		Haeleen	Hong	NC State University	Colloidal design of novel self-propelling active cleaners for microplastics remediation
2		Yixin	Hu	Duke University	Stress-Triggered Modulus Decrease of Polymers by Mechanoacid
2		Sook	Im	NC State University	Triboelectric charge retention by air-stable radicals
2		Pallav	Jani	NC State University	What makes BPA epoxy coatings stick to metal food cans? A thermodynamic perspective
2		Stephen	Kiawa	UNC Chapel Hill	Catching COVID: Engineering Peptide-Modified SERS Sensors for SARS-CoV-2
2		Yosra	Kotb	NC State University	Novel high-performance sustainable biopolymer films hierarchically reinforced with dendricolloids
2		Juliana	O'Brien	NC State University	Synthesis of Gene-Complexing Peptidic Dendrimers
2		Brian	Chan	Duke University	Theory of chromatin organization maintained by active loop extrusion
2		Jihye	Kim	NC State University	Spontaneous and Selective Wetting of Gallium-based Liquid metal induced by Imbibition
2		Caleb	Kozuszek	UNC Chapel Hill	Stereoselective Cationic Polymerization Using Bronsted Acid Catalysts
2		Eliza	Neidhart	UNC Chapel Hill	C-H Functionalization of Polyolefins for Polyolefin Ene-amine Vitrimers
2		Richard	Sheridan	Duke University	Local Polymer Interfacial Mechanics: Effect of Topological and Chemical Nanopatterning
2		Peter	Dykeman-Bermingham	UNC Chapel Hill	Structure and dynamics of amphiphilic copolymers using di(phenylalanine)
3		Micah	Papanikolas	UNC Chapel Hill	Reversing Mucus Aggregation as a Strategy to Restore Airway Function
3		Matthew	Pech	NC State University	Synthetic Approaches Toward Azaacenes
3		Sabila Kader	Pinky	NC State University	
3		Vahid	Rahmanian	NC State University	Photo-responsive aerogel designed from sol-gel electrospun PVP-TiO2 nanofibers
3		Mehedi Hasan	Rizvi	NC State University	Magnetic Alignment for Plasmonic Control of Gold Nanorods Coated with Iron Oxide Nanoparticles
3		Matthew	Sanders	UNC Chapel Hill	Design and synthesis of macromolecular palladium catalysts for enhanced cross-coupling efficacy
3		Protasha	Sarker	NC State University	Modulating the rheology of collagen-based hydrogels using tannic acid particles
3		Mohammad	Shamsi	NC State University	Ultrasoft and Stretchable Thermoplastic Elastomer Gel Nonwovens
3		Mariam	Sohail	NC State University	Sustainable agriculture: Aqueous dispersions containing biodegradable polymers for targeted delivery of agrochemicals
3		Yichen	Yu	Duke University	Force-dependence of transition-metal complex reactivity in catalysis
3		Mingyuan	Zheng	Duke University	Avoiding critical slowdown in models with SALR interactions
3		Meixiang	Wang	NC State University	Ultra-tough and stretchable ionogels by in situ phase separation
3		Zhenlu	Cui	Fayetteville State University	Exact Results for Sheared Active Suspensions with Variable Polarization Magnitudes
3		Jessica	LaLonde	Duke University	Data-Enabled Approaches to Poly(hydroxyalkanoate) (PHA) Biopolymer Structure-Property Prediction and Analysis
3		Akhilak-Ul	Mahmood	NC State University	Morphological Properties of Magnetite Nanoparticles due to Magnetic Interactions
3		Irene	Manning	UNC Chapel Hill	Ionic Fluorogels for Remediation of Per- and Polyfluorinated Alkyl Substances from Water
3		John	Migliore	UNC Chapel Hill	Controlling the solution behavior of a self-assembled, liquid crystal polyelectrolyte
3		Sneha	Mukherjee	NC State University	Paper Microfluidic Based Osmotic Wearable Patches for Analyte Sensing in Sweat
3		Xiaoxuan	Jian	Duke University	Extreme elastic properties of mechanosensory chordotonal organs in Drosophila
3		Sanghoon	Kim	UNC Chapel Hill	GlycoGrip: Snaring Betacoronaviruses with Sweets
3		Lilian, B	Okello	NC State University	Engineering of the colloidal properties of Homocomposite Capillary Pastes (HCPs) for 3D printing of soft actuators and bioscaffolds
3		Michael	Petrea	NC State University	Applications Multifunctional Dendritic Polymers in Li-ion Batteries
3		Johann	Rapp	UNC Chapel Hill	In-line determination of molecular weight through the quantitative scaling of polymer solutions
3		Kyle	Riker	UNC Chapel Hill	Engineering Dynamic Control at the Cell-Substrate Interface
3		Cole	Sorensen	UNC Chapel Hill	Stereoselective Helix-Sense-Selective Cationic Polymerization of N-vinylcarbazole Using Chiral Lewis Acid Catalysis
3		Kengo	Nishi	Duke University	Non-equilibrium shape fluctuations in living cells report posttranslational modifications of microtubule mechanics