

| Session | Poster | First Name | Last Name | Affiliation | Title |
|---------|--------|--------------|--------------------|---------------------------|--|
| 1 | 1 | Kevin | Coghlan | UNC Chapel Hill | Synthesis and Assembly of Biohybrid Polymer Libraries |
| 1 | 2 | Peter | Dykeman-Birmingham | UNC Chapel Hill | Structure and dynamics of amphiphilic copolymers using di(phenylalanine) |
| 1 | 3 | Jack | Featherstone | NC State University | Friction and Failure on the Single-Particle Scale |
| 1 | 4 | Merve | Fedai | NC State University | Design of New Cellulose Nanocrystals using Multi-scale Simulations |
| 1 | 5 | Ethan | Frey | NC State University | Laser Fabrication of a Liquid Metal-Graphene Composite for Stretchable Electronics |
| 1 | 6 | XIAOXUAN | JIAN | Duke University | Extreme elastic properties of mechanosensory chordotonal organs in Drosophila |
| 1 | 7 | Yung | Koh | NC State University | The Synergetic Glass-Transition Temperature of Coamorphous Molecular Glasses |
| 1 | 8 | Mitchell | Maw | UNC Chapel Hill | Encoding pressure sensitive adhesion in brush polymers |
| 1 | 9 | Himendra | Perera | NC State University | Utilizing rheology to characterize CNT-PDMS gels in the roll coating process |
| 1 | 10 | Farzin | Rahmani | NC State University | Effects of Ionic Liquid Nanoconfinement on the CO ₂ /CH ₄ Separation in Polyvinylidene Fluoride/1-Ethyl-3-Methyl-Imidazolium Thiocyanate Membranes |
| 1 | 11 | Maxim | Ratushnyy | UNC Chapel Hill | Polymer Skeletal Editing via Anionic Brook Rearrangements |
| 1 | 12 | V. Cary | Ritter | Duke University | Mechanochromism and Strain-induced Crystallization in Thiol-yne-derived Stereoelectroelastomers |
| 1 | 13 | Sravanthi | Vallabhuni | NC State University | Slippery Hydrophilic Surfaces: Design & Applications |
| 1 | 14 | Lucille | Verster | NC State University | Biodegradable Soft Dendritic Colloids Aid In Microplastic Remediation |
| 1 | 15 | Benjamin | Allen | UNC Chapel Hill | Mapping the Morphological Landscape and Dynamics of Peptide-Polymer Amphiphiles |
| 1 | 16 | Adam | Bachmann | NC State University | Self-Folding PCB Kirigami: Rapid Prototyping of 3D Electronics via Laser Cutting and Forming |
| 1 | 17 | Rachel | Bang | NC State University | Liquid shear-based nanofabrication of a plethora of soft polymeric morphologies |
| 1 | 18 | Victoria | Barber | UNC Chapel Hill | Leveraging C-H Functionalization for the Development of Degradable Polymers |
| 1 | 19 | Abhirup | Basu | NC State University | Soft microbeads with confined hierarchical assemblies of magnetic nanoparticles |
| 1 | 20 | Meredith | Borden | UNC Chapel Hill | Leveraging Latent Catalysis to Diversify Materials' Properties in Additive Manufacturing |
| 1 | 21 | Supraja | Chittari | UNC Chapel Hill | Mapping energy landscapes of thermosensitive polymers |
| 1 | 22 | Ivan | Cockman | NC State University | Synthetic Strategies Towards Higher Azaacenes |
| 1 | 23 | Scott | Danielsen | Duke University | Surface Layer Adsorption and Bulk Association of Mucins in Human Airway Mucus |
| 1 | 24 | Erin | Day | UNC Chapel Hill | Sequence-Dependent Hydrophobic Collapse of Peptidomimetics |
| 1 | 25 | Hannah | Dedmon | NC State University | |
| 2 | 26 | Nidhi | Diwakar | NC State University | Active particle propulsion due to temporally asymmetric AC fields |
| 2 | 27 | Anna | Fraser | UNC Chapel Hill | Rodlike v kinked: the role of polyamide geometry in salt exclusion membranes |
| 2 | 28 | Melanie | Ghelardini | NC State University | 3D Printed Photothermally Responsive Hydrogels |
| 2 | 29 | Haeleen | Hong | NC State University | Colloidal design of novel self-propelling active cleaners for microplastics remediation |
| 2 | 30 | Yixin | Hu | Duke University | Stress-Triggered Modulus Decrease of Polymers by Mechanoacid |
| 2 | 31 | Sooki | Im | NC State University | Triboelectric charge retention by air-stable radicals |
| 2 | 32 | Pallav | Jani | NC State University | What makes BPA epoxy coatings stick to metal food cans? A thermodynamic perspective |
| 2 | 33 | Stephen | Klawns | UNC Chapel Hill | Catching COVID: Engineering Peptide-Modified SERS Sensors for SARS-CoV-2 |
| 2 | 34 | Yosra | Kotb | NC State University | Novel principles of fabricating high-performance sustainable biopolymer films hierarchically reinforced with dendricolloids |
| 2 | 35 | Jessica | LaLonde | Duke University | Data-Enabled Approaches to Poly(hydroxyalkanoate) (PHA) Biopolymer Structure-Property Prediction and Analysis |
| 2 | 36 | Akhilak-Ul | Mahmood | NC State University | Morphological Properties of Magnetite Nanoparticles due to Magnetic Interactions |
| 2 | 37 | Irene | Manning | UNC Chapel Hill | Ionic Hydrogels for Remediation of Per- and Polyfluorinated Alkyl Substances from Water |
| 2 | 38 | John | Migliore | UNC Chapel Hill | Controlling the solution behavior of a self-assembled, liquid crystal polyelectrolyte |
| 2 | 39 | Sneha | Mukherjee | NC State University | Paper Microfluidic Based Osmotic Wearable Patches for Analyte Sensing in Sweat |
| 2 | 40 | Juliana | O'Brien | NC State University | Synthesis of Gene-Complexing Peptidic Dendrimers |
| 2 | 41 | Micah | Papanikolas | UNC Chapel Hill | Reversing Mucus Aggregation as a Strategy to Restore Airway Function |
| 2 | 42 | Matthew | Pech | NC State University | Synthetic Approaches Toward Azaacenes |
| 2 | 43 | Sabila Kader | Pinky | NC State University | Role of Solvents and Surfactants in Controlling Polyfluorene Emulsion Properties: An Atomistic Approach |
| 2 | 44 | Vahid | Rahmanian | NC State University | Photo-responsive aerogel designed from sol-gel electrospun PVP-TiO ₂ nanofibers |
| 2 | 45 | Mehedi Hasan | Rizvi | NC State University | Magnetic Alignment for Plasmonic Control of Gold Nanorods Coated with Iron Oxide Nanoparticles |
| 2 | 46 | Matthew | Sanders | UNC Chapel Hill | Design and synthesis of macromolecular palladium catalysts for enhanced cross-coupling efficacy |
| 2 | 47 | Prottasha | Sarker | NC State University | Modulating the rheology of collagen-based hydrogels using tannic acid particles |
| 2 | 48 | Mohammad | Shamsi | NC State University | Ultrashort and Stretchable Thermoplastic Elastomer Gel Nonwovens |
| 2 | 49 | Mariam | Sohail | NC State University | Sustainable agriculture: Aqueous dispersions containing biodegradable polymers for targeted delivery of agrochemicals |
| 2 | 50 | Yichen | Yu | Duke University | Force/Activity Relationships in Transition Metal Catalysis |
| 3 | 51 | Marcello | DeLuca | Duke University | Long-Timescale Dynamic Self Assembly of DNA Nanostructures Captured using Switchable Forcefield Coarse-Grained Model |
| 3 | 52 | Meixiang | Wang | NC State University | Ultra-tough and stretchable ionogels by in situ phase separation |
| 3 | 53 | Mingyuan | Zheng | Duke University | Avoiding critical slowdown in models with SALR interactions |
| 3 | 54 | Maggie | Daly | UNC Chapel Hill | Bioinspired spindle-like assembly using peptide-DNA nanotechnology |
| 3 | 55 | Ryan | Fuierer | Oxford Instruments Asylum | Characterization of Soft Materials using Atomic Force Microscopy |
| 3 | 56 | Behzad | Golshaei | Duke univeristy | Mechanical properties of suspended cells: manipulation with optical tweezers and modeling as osmotically pressurized shell |
| 3 | 57 | Jake | Jagannathan | UNC Chapel Hill | Resolution Polymerizations of O-carboxyanhydrides |
| 3 | 58 | Jihye | Kim | NC State University | Spontaneous and Selective Wetting of Gallium-based Liquid metal induced by Imbibition |
| 3 | 59 | Caleb | Kozuszek | UNC Chapel Hill | Stereoselective Cationic Polymerization Using Bronsted Acid Catalysts |
| 3 | 60 | Eliza | Neidhart | UNC Chapel Hill | C-H Functionalization of Polyolefins for Polyolefin Ene-amine Vitrimers |
| 3 | 61 | Lilian | Okello | NC State University | Engineering of the colloidal properties of Homocomposite Capillary Pastes (HCPs) for 3D printing of soft actuators and bioscaffolds |
| 3 | 62 | Michael | Petrecca | NC State University | Applications Multifunctional Dendritic Polymers in Li-ion Batteries |
| 3 | 63 | Johann | Rapp | UNC Chapel Hill | In-line determination of molecular weight through the quantitative scaling of polymer solutions |
| 3 | 64 | Kyle | Riker | UNC Chapel Hill | A Programmable Toolkit to Dynamically Signal Cells using Peptide Strand Displacement |
| 3 | 65 | Cole | Sorensen | UNC Chapel Hill | Stereoselective Helix-Sense-Selective Cationic Polymerization of N-vinylcarbazole Using Chiral Lewis Acid Catalysis |
| 3 | 66 | Michael | Jacobs | UNC Chapel Hill | Forensics of Polymer Networks |
| 3 | 67 | Ryan | Sayko | UNC Chapel Hill | A Scaling Tool for Quantifying Properties of Polymer Solutions |
| 3 | 68 | Yuan | Tian | UNC Chapel Hill | Entanglements and Dynamics of Polyelectrolytes in Concentrated Solutions and Complexes |
| 3 | 69 | Zilu | Wang | UNC Chapel Hill | Swelling and Deformation of Polyelectrolyte Gels in Salt Solutions |
| 3 | 70 | Sunyoung | Woo | NC State University | Counter-propagating gradients of antibacterial & antifouling brushes |
| 3 | 71 | John | Linehan | UNC Chapel Hill | There's More Than One Way to Close a Ring: How do Unique Mechanisms of Contractile Force Generation Arise in Actin Structures Consisting of Homologous proteins in roughly the same amount, and Organization |
| 3 | 72 | Tushar | Sakorikar | NC State University | Electromechanical and Electrical Transport in Soft Systems |
| 3 | 73 | Shu | Wang | Duke University | A Covalent Toughening Mechanism of Polymer Networks Using Inherent Loops |
| 3 | 74 | Kengo | Nishi | Duke University | Non-equilibrium shape fluctuations in living cells report posttranslational modifications of microtubule mechanics |



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