

NISE 2026 List of Poster Presentations		
Poster size and layout: A0 (841 mm x 1189 mm or 33.1 inch x 46.8 inch) in Portrait		
Name		Abstract Title
Lee	Sungho	Preparation of MgO-CaO-P2O5 glasses for biomedical applications via liquid phase method
Glen	McHale	Droplet Pinning on Slippery Biphilic Surfaces
Adya	Karthikeyan	Rechargeable and compostable slippery liquid infused porous surfaces
Seamus	Lilley	Determining the Ingression and Breakthrough Pressure of Micromeshes
Jinhyung	Kim	Nature-Inspired Vibration-Induced Separation of Pinned Droplets for Capture of Surface-Buried Particulates
Aleksandra	Nastic	Rapid Synthesis of Nano- and Micro-Porous Copper Surfaces Driven by Selective Dealloying of Micrometer-Sized Cu-Al Powder
Cerys	Cormican	Springtail-Inspired Surface Architectures for Structure-Driven Liquid Repellency
Syed Ali Hamza	Rizvi	Experimental Quantification of Liquid–Solid Adhesion under Varying Operational Conditions
Parth	Patil	Breath Figure Growth on Oil-Air Interfaces
Rakesh	Choubey	Eco-friendly hydrophobic slippery coatings for enhanced protection against marine corrosion and biofouling
Soumya	Mattupalli	Evaporative Assisted Assessment of Cassie State Stability on Biomimetic Superhydrophobic Surfaces
Jashaswinee	Swain	Durability of Structured Superhydrophobic Surfaces: Chemical & Thermodynamic Insights
Carina	Bittner	From Natural to Synthetic Melanosomes: Shape-Directed Self-Assembly in Avian Photonic Crystals
Fatemeh	Rajabi	Ionic Liquids Based PMO- Palladium: An Efficient Interphase Catalyst for Suzuki–Miyaura Reactions
Ray	Ju	Design and Fabrication of Hierarchical 3D Printed Catalytic Structures
Kiran	Mungroo	3D Printing Polyurethane Elastomer Pillars for Bio-Inspired Microgrippers
Xin	TANG	Stepwise Dewetting in Micro-Architectures for Voxlated Additive Manufacturing
Zaidi	Syed Javaid	Nature Inspired Sustainable Synthesis of Graphene Quantum Dots from Date Palm Leaf Waste via Green Hydrothermal Processing
SAIFULLAH	LONE	Nature to Nano-Interfaces: Designing Bioinspired Hierarchical Surfaces for Atmospheric Water Harvesting
Alfonso	B. Mosquera	Nature’s Roughness: Smart Wetting with Diatomaceous Earth
Wei	Jinfei	Durable Superhydrophobic/Superamphiphobicity Coatings for Prevention of Rain Attenuation of 5G/Weather Radomes and Anti-icing of High-voltage Transmission Tower
Bucheng	Li	Liquid Impalement Resistance and Mechanically Robust Superhydrophobic Coatings with Anti-icing Performance
Wu	Matthew	A Sintering Model of Snow Adhesion
Amirreza	Azad	Surface-Engineered Electrodes via Cold Spray for Improved Hydrogen Bubble Generation in Water Electrolysis
Lee	MinHo	Biocompatibility Study of ECM-Mimicking Eggshell Membrane-Containing GelMA Cryogel for Microstructure Control
Min-suk	Oh	Enhancing PEM Fuel Cell Performance via APCVD-Engineered Superhydrophobic Aluminum Bipolar
Tyler	Olson	Mode-dependent adhesion characterization of ice-shedding surfaces
Teresa	Busch	Auxetic Structures Fabricated via Femtosecond Laser Micromachining
Zoe	Meyer	Durable, broad-spectrum anti-biofouling polyurethane-based coatings
Seo-Young	Kim	ECM-Mimetic Hybrid Coating Based on Bioactive Ceramics and Natural Polymers for Osteoinductive Molecule Delivery
Belén	PEPIÓ-TÁRREGA	Mussel-Inspired Catecholamine Surfaces for ROS-Mediated Antimicrobial Activity Against Planktonic Bacteria and Biofilms
Itasaka	Hiroki	Correlative Chemical and Nanomechanical Characterization of Resin-Dentin Hybrid Interfaces Using Confocal Raman Microscopy and Viscoelastic AFM
Lim	Hyuneui	Future Research Directions for Multifunctional Nature Inspired Surfaces: Opportunities and Challenges
Kang	YooNa	
Wu	Matthew	Procedurally Evaluating the Snow Shedding Behavior of Coated Surfaces