Resource Summary Report

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Texas A and M University Soft Matter Core Facility

RRID:SCR_022482
Type: Tool

Proper Citation

Texas A and M University Soft Matter Core Facility (RRID:SCR_022482)

Resource Information

URL: https://somf.engr.tamu.edu/

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Description: Facility is focused on characterization of multifunctional soft materials. Includes four instrumentation suites based on soft matter centered research areas which will be unified by general theme of characterization of hierarchically structured multicomponent, multifunctional soft materials: Molecular Characterization, Processing and Mechanics, Thin Films and Interfacial Analysis, and Nanostructure Characterization.

Abbreviations: SoMF

Synonyms: Texas A&M University Soft Matter Facility, Soft Matter Facility

Resource Type: access service resource, core facility, service resource

Keywords: USEDit, ABRF, multifunctional soft materials characterization

Resource Name: Texas A and M University Soft Matter Core Facility

Resource ID: SCR_022482

Alternate IDs: ABRF_1455

Alternate URLs: https://coremarketplace.org/?FacilityID=1455&citation=1

Record Creation Time: 20220614T050142+0000

Record Last Update: 20260912T200418+0000

Ratings and Alerts

No rating or validation information has been found for Texas A and M University Soft Matter Core Facility.

No alerts have been found for Texas A and M University Soft Matter Core Facility.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 38 mentions in open access literature.

Listed below are recent publications. The full list is available at SPARC SAWG .

Ali RF, et al. (2026) Direct Photochemical Patterning of Lithium Niobate Structures for Scalable Nonlinear Optical Metasurfaces. Small science, 6(3), e202500606.

Deshpande S, et al. (2026) Block Copolymer-Enabled Low-Temperature Structural Battery Electrolytes Produced Using Polymerization-Induced Phase Separation. ACS applied materials & interfaces, 18(10), 15599.

Banavath R, et al. (2026) Graphene oxide synthesis at a nonthermal plasma-water interface. Nature communications, 17(1).

Nicholson JL, et al. (2026) Leveraging Mechanistic Insights into Stereoretentive ROMP for Precision Synthesis of Poly(p-phenylene vinylene)s. Journal of the American Chemical Society, 148(19), 19943.

Fisher SG, et al. (2026) Fish-Based Biopolymer Complex Coacervate Coating for Improved Paper Oxygen and Water Barrier. Biomacromolecules, 27(1), 795.

Festus K, et al. (2026) Graphene-inspired porous polymer network for ethane/ethylene separation and methane purification. Nature communications, 17(1).

Hsieh CM, et al. (2026) Tuning the Mechanical Properties of Crosslinked Copolymers via Sequence and Solvent-Selective Swelling for Vat Photopolymerization. Angewandte Chemie (International ed. in English), e8144140.

Hernández JN, et al. (2026) Biodegradable poly(?-caprolactone)/poly(silyl fumarate) shape memory scaffolds. Polymer, 348.

Avais M, et al. (2026) Tacticity-Regulated Electrochemical Properties of Poly(2,2,6,6-tetramethylpiperidinyloxy Methacrylate). Journal of the American Chemical Society, 148(22), 22621.

Das S, et al. (2025) Polysulfamates as "Macroisosteres" of Polyurethanes with Improved Degradability. Angewandte Chemie (International ed. in English), 64(39), e202510841.

Fisher SG, et al. (2025) Biopolymer and Carnauba Wax Coating for Improved Paper Oxygen Barrier, Water Vapor Barrier, and Grease Resistance. ACS applied materials & interfaces, 17(39), 55307.

Montemayor MD, et al. (2025) Polyelectrolyte Complex Coacervate Adhesive for Wearable Medical Devices. Macromolecular rapid communications, 46(15), e2500117.

Avais M, et al. (2025) Redox-active polymer-grafted particles as redox mediators for enhanced charge transport in solution-state electrochemical systems. Chemical science, 16(19), 8357.

Dixon DT, et al. (2025) Hybrid Chitosan/PCL Shape Memory Scaffolds with Potential for Bone Regeneration and Infection Resistance. ACS biomaterials science & engineering, 11(9), 5627.

Fox E, et al. (2025) Revealing the Effect of Pendant Identity on the Electrochemistry of Non-Conjugated Redox Active Polymers. ChemSusChem, 18(20), e202501121.

Xu J, et al. (2025) Counterion-Free Ionic Associating Polymers: In Situ Ionization and Coupling of Alkyl Sulfonate Precursors. Macromolecules, 58(20), 11315.

Tsai CC, et al. (2025) Rational Design of Ionomer Microstructures for Thermally Reprocessable Materials with Creep Resistance and Recoverability. JACS Au, 5(12), 6324.

Taherzadeh R, et al. (2025) Establishing a Xanthan Gum-Locust Bean Gum Mucus Mimic for Cystic Fibrosis Models: Yield Stress and Viscoelasticity Analysis. Biomimetics (Basel, Switzerland), 10(4).

Lee YJ, et al. (2025) Phase-Change Silicone Elastomers for Tough, Soft Actuators. Macromolecules, 58(15), 8067.

Li H, et al. (2025) Emergent Nanostructure and Ion Transport in Polyzwitterion/Polyanion Blends. Macromolecules, 58(16), 8658.