



Sophia J. Bailey

Postdoctoral Scholar, Materials Science and Engineering

Bio

STANFORD ADVISORS

- Eric Appel, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Dynamic Manipulation of Droplets on Liquid-Infused Surfaces Using Photoresponsive Surfactant** *ACS CENTRAL SCIENCE*
Liang, X., Karnaukh, K. M., Zhao, L., Seshadri, S., DuBose, A. J., Bailey, S. J., Cao, Q., Cooper, M., Xu, H., Haggmark, M., Helgeson, M. E., Gordon, M., Luzzatto-Fegiz, et al
2024; 10 (3): 684-694
- **Composite gels designed to stick to biological tissue** *NATURE*
Bailey, S. J., Appel, E. A.
2024; 625 (7995): 455-457
- **Diels-Alder Photoclick Patterning of Extracellular Matrix for Spatially Controlled Cell Behaviors** *ADVANCED MATERIALS*
Bailey, S., Hopkins, E., Baxter, N., Whitehead, I., de Alaniz, J., Wilson, M.
2023; e2303453
- **Design, Synthesis, and Application of a Water-soluble Photocage for Aqueous Cyclopentadiene-based Diels-Alder Photoclick Chemistry in Hydrogels.** *Angewandte Chemie (International ed. in English)*
Bailey, S. J., Hopkins, E., Rael, K. D., Hashmi, A., Uruena, J. M., Wilson, M. Z., Read de Alaniz, J.
2023; e202301157
- **Controlled Diels-Alder "Click" Strategy to Access Mechanically Aligned Main-Chain Liquid Crystal Networks** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*
Campos, J., Stricker, F., Clark, K. D., Park, M., Bailey, S. J., Kuenstler, A. S., Hayward, R. C., de Alaniz, J.
2023; 62 (1): e202214339
- **Rational mechanochemical design of Diels-Alder crosslinked biocompatible hydrogels with enhanced properties** *MATERIALS HORIZONS*
Bailey, S. J., Barney, C. W., Sinha, N. J., Pangali, S., Hawker, C. J., Helgeson, M. E., Valentine, M. T., Read de Alaniz, J.
2022; 9 (7): 1947-1953