



Fotis Christakopoulos

Postdoctoral Scholar, Materials Science and Engineering

Bio

HONORS AND AWARDS

- Postdoc Mobility Fellowship, Swiss National Science Foundation (02.2023-01.2025)

STANFORD ADVISORS

- Sarah Heilshorn, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Dual-orientation of collagen fibers to guide cell alignment in 3D-printed constructs.** *Acta biomaterialia*
Singhal, D., Christakopoulos, F., Brunel, L. G., Borkar, S., Doulames, V. M., Mozipo, E. A., Myung, D., Fuller, G. G., Heilshorn, S. C.
2025
- **Reinforcement of Fibrillar Collagen Hydrogels with Bioorthogonal Covalent Crosslinks.** *Biomacromolecules*
Brunel, L. G., Long, C. M., Christakopoulos, F., Cai, B., de Paiva Narciso, N., Johansson, P. K., Singhal, D., Baugh, N. J., Zhang, D., Enejder, A., Myung, D., Heilshorn, S. C.
2025
- **Interpenetrating networks of fibrillar and amorphous collagen promote cell spreading and hydrogel stability.** *Acta biomaterialia*
Brunel, L. G., Long, C. M., Christakopoulos, F., Cai, B., Johansson, P. K., Singhal, D., Enejder, A., Myung, D., Heilshorn, S. C.
2025
- **Organoid bioprinting: from cells to functional tissues** *NATURE REVIEWS BIOENGINEERING*
Huang, M. S., Christakopoulos, F., Roth, J. G., Heilshorn, S. C.
2024
- **Structure Formation and Unexpected Ultrafast Re-entanglement Dynamics of Disentangled Ultrahigh Molecular Weight Polyethylene** *MACROMOLECULES*
Wang, Z., Li, B., Christakopoulos, F., Xie, K., Zhu, C., Xu, J., Muller, A. J.
2024
- **Solid-state extrusion of nascent disentangled ultra-high molecular weight polyethylene** *POLYMER ENGINEERING AND SCIENCE*
Christakopoulos, F., Busato, S. P., Kong, X., Troisi, E., Friederichs, N., Tervoort, T. A.
2024
- **Disentangled Melt of Ultrahigh-Molecular-Weight Polyethylene: Fictitious or Real?** *MACROMOLECULES*
Litvinov, V., Christakopoulos, F., Lemstra, P.
2024
- **A microrheological examination of insulin-secreting β -cells in healthy and diabetic-like conditions** *SOFT MATTER*
Woolley, L., Burbidge, A., Vermant, J., Christakopoulos, F.

2024

- **Embedded 3d Bioprinting of Collagen Inks into Microgel Baths to control hydrogel Microstructure and Cell Spreading.** *Advanced healthcare materials*

Brunel, L. G., Christakopoulos, F., Kilian, D., Cai, B., Hull, S. M., Myung, D., Heilshorn, S. C.

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