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STANFORD ADVISORS

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Publications

PUBLICATIONS

- **Human Dermal Microvascular Arterial and Venous Blood Endothelial Cells and Their Use in Bioengineered Dermo-Epidermal Skin Substitutes** *SMALL METHODS*
Ruetsche, D., Nanni, M., Cheng, P., Caffisch, N., Tastanova, A., Jenni, C., Levesque, M. P., Moehrlen, U., Klar, A. S., Biedermann, T.
2025: e2401588
- **A Low-Cost, Open-Source 3D Printer for Multimaterial and High-Throughput Direct Ink Writing of Soft and Living Materials.** *Advanced materials (Deerfield Beach, Fla.)*
Weiss, J. D., Mermin-Bunnell, A., Solberg, F. S., Tam, T., Rosalia, L., Sharir, A., Rüttsche, D., Sinha, S., Choi, P. S., Shibata, M., Palagani, Y., Nilkant, R., Paulvannan, et al
2025: e2414971
- **Rapid Model-Guided Design of Organ-Scale Synthetic Vasculature for Biomanufacturing.** *Science*
Sexton, Z. A., Rüttsche, D., Herrmann, J. E., Hudson, A. R., Sinha, S., Du, J., Shiwarski, D. J., Masaltseva, A., Solberg, F. S., Pham, J., Szafron, J. M., Wu, S. M., Feinberg, et al
2025; 388 (6752): 1198-1204
- **Hydrostatic pressure drives sprouting angiogenesis via adherens junction remodelling and YAP signalling** *COMMUNICATIONS BIOLOGY*
Al-Nuaimi, D., Rutsche, D., Abukar, A., Hiebert, P., Zanetti, D., Cesarovic, N., Falk, V., Werner, S., Mazza, E., Giampietro, C.
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- **Light from Afield: Fast, High-Resolution, and Layer-Free Deep Vat 3D Printing.** *Chemical reviews*
Chansoria, P., Rizzo, R., Rüttsche, D., Liu, H., Delrot, P., Zenobi-Wong, M.
2024
- **Biofabrication of Heterogeneous, Multi-Layered, and Human-Scale Tissue Transplants Using Eluting Mold Casting** *ADVANCED FUNCTIONAL MATERIALS*
Tosoratti, E., Rutsche, D., Asadikorayem, M., Ponta, S., Fisch, P., Flegeau, K., Linder, T., Guillon, P., Zenobi-Wong, M.
2023
- **Synergizing Algorithmic Design, Photoclick Chemistry and Multi-Material Volumetric Printing for Accelerating Complex Shape Engineering.** *Advanced science (Weinheim, Baden-Wurtemberg, Germany)*
Chansoria, P., Rutsche, D., Wang, A., Liu, H., D'Angella, D., Rizzo, R., Hasenauer, A., Weber, P., Qiu, W., Ibrahim, N. B., Korshunova, N., Qin, X., Zenobi-Wong, et al
2023: e2300912
- **Multiscale Hybrid Fabrication: Volumetric Printing Meets Two-Photon Ablation** *ADVANCED MATERIALS TECHNOLOGIES*
Rizzo, R., Ruetsche, D., Liu, H., Chansoria, P., Wang, A., Hasenauer, A., Zenobi-Wong, M.
2023
- **Enzymatically Crosslinked Collagen as a Versatile Matrix for In Vitro and In Vivo Co-Engineering of Blood and Lymphatic Vasculature** *ADVANCED MATERIALS*

Rutsche, D., Nanni, M., Rudisser, S., Biedermann, T., Zenobi-Wong, M.
2023; e2209476

- **Filamented Light (FLight) Biofabrication of Highly Aligned Tissue-Engineered Constructs** *ADVANCED MATERIALS*

Liu, H., Chansoria, P., Delrot, P., Angelidakis, E., Rizzo, R., Rutsche, D., Applegate, L., Loterie, D., Zenobi-Wong, M.
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