



Patrik Johansson

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Research & Scholarship

LAB AFFILIATIONS

- Sarah Heilshorn, Heilshorn Lab (3/15/2019)

Publications

PUBLICATIONS

- **Bacterial outer membrane vesicles bound to bacteriophages modulate neutrophil responses to bacterial infection.** *Frontiers in cellular and infection microbiology*
Pennetzdorfer, N., Popescu, M. C., Haddock, N. L., Dupuy, F., Kaber, G., Hargil, A., Johansson, P. K., Enejder, A., Bollyky, P. L.
2023; 13: 1250339
- **APOE4/4 is linked to damaging lipid droplets in Alzheimer's microglia.** *bioRxiv : the preprint server for biology*
Haney, M. S., Pálóvics, R., Munson, C. N., Long, C., Johansson, P., Yip, O., Dong, W., Rawat, E., West, E., Schlachetzki, J. C., Tsai, A., Guldner, I. H., Lamichhane, et al
2023
- **Elastin-like protein hydrogels with controllable stress relaxation rate and stiffness modulate endothelial cell function.** *Journal of biomedical materials research. Part A*
Shayan, M., Huang, M. S., Navarro, R., Chiang, G., Hu, C., Oropeza, B. P., Johansson, P. K., Suhar, R. A., Foster, A. A., LeSavage, B. L., Zamani, M., Enejder, A., Roth, et al
2023
- **Collagen hydrogels covalently crosslinked by bioorthogonal click chemistry resist cell-induced contraction while preserving encapsulated corneal stromal cell phenotype**
Brunel, L. G., Hull, S. M., Johansson, P. K., Myung, D., Heilshorn, S. C.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2022
- **A human multi-lineage hepatic organoid model for liver fibrosis.** *Nature communications*
Guan, Y., Enejder, A., Wang, M., Fang, Z., Cui, L., Chen, S., Wang, J., Tan, Y., Wu, M., Chen, X., Johansson, P. K., Osman, I., Kunimoto, et al
2021; 12 (1): 6138
- **Elastin-like Proteins to Support Peripheral Nerve Regeneration in Guidance Conduits.** *ACS biomaterials science & engineering*
Suhar, R. A., Marquardt, L. M., Song, S., Buabbas, H., Doulames, V. M., Johansson, P. K., Klett, K. C., Dewi, R. E., Enejder, A. M., Plant, G. W., George, P. M., Heilshorn, S. C.
2021; 7 (9): 4209-4220
- **Vibrational Sum-Frequency Scattering as a Sensitive Approach to Detect Structural Changes in Collagen Fibers Treated with Surfactants** *LANGMUIR*
Johansson, P. K., Castner, D. G.
2019; 35 (24): 7848-7857
- **Stark Tuning Rates of Organic Carbonates Used in Electrochemical Energy Storage Devices** *JOURNAL OF PHYSICAL CHEMISTRY C*
Olson, J. Z., Schneider, S. H., Johansson, P. K., Luk, T. S., Schlenker, C. W.

2019; 123 (18): 11484-92

- **Operando Sum-Frequency Generation Detection of Electrolyte Redox Products at Active Si Nanoparticle Li-Ion Battery Interfaces** *CHEMISTRY OF MATERIALS*
Olson, J. Z., Johansson, P. K., Castner, D. G., Schlenker, C. W.
2018; 30 (4): 1239-1248
- **Nonlinear Optical Methods for Characterization of Molecular Structure and Surface Chemistry** *Topics in Catalysis*
Johansson, P. K., Schmäser, L., Castner, D. G.
2018; 61 (9-11): 1101-1124
- **Label-free imaging of amyloids using their intrinsic linear and nonlinear optical properties** *BIOMEDICAL OPTICS EXPRESS*
Johansson, P. K., Koelsch, P.
2017; 8 (2): 743-756
- **Experimental design and analysis of activators regenerated by electron transfer-atom transfer radical polymerization experimental conditions for grafting sodium styrene sulfonate from titanium substrates** *JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A*
Foster, R. N., Johansson, P. K., Tom, N. R., Koelsch, P., Castner, D. G.
2015; 33 (5): 05E131
- **Electronic polymers in lipid membranes** *SCIENTIFIC REPORTS*
Johansson, P. K., Julleson, D., Elfving, A., Liin, S. I., Musumeci, C., Zeglio, E., Elinder, F., Solin, N., Inganas, O.
2015; 5: 11242
- **Vibrational Sum-Frequency Scattering for Detailed Studies of Collagen Fibers in Aqueous Environments** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Johansson, P. K., Koelsch, P.
2014; 136 (39): 13598-13601