

Stanford

Yeongjun Lee

Postdoctoral Scholar, Chemical Engineering

Bio

STANFORD ADVISORS

- Zhenan Bao, Postdoctoral Faculty Sponsor
- Zhenan Bao, Postdoctoral Research Mentor

Publications

PUBLICATIONS

- **Strain-Tolerant, High-Detectivity, and Intrinsically Stretchable All-Polymer Photodiodes** *ADVANCED FUNCTIONAL MATERIALS*
Kang, H., Lee, Y., Lee, G., Chung, J., Kwon, Y., Kim, J., Kuzumoto, Y., Gam, S., Kang, S., Jung, J., Choi, A., Yun, Y.
2023
- **A low-power stretchable neuromorphic nerve with proprioceptive feedback (Aug, 10.1038/s41551022-00918-x, 2022)** *NATURE BIOMEDICAL ENGINEERING*
Lee, Y., Liu, Y., Seo, D., Oh, J., Kim, Y., Li, J., Kang, J., Kim, J., Mun, J., Foudeh, A. M., Bao, Z., Lee, T.
2022
- **A low-power stretchable neuromorphic nerve with proprioceptive feedback.** *Nature biomedical engineering*
Lee, Y., Liu, Y., Seo, D., Oh, J. Y., Kim, Y., Li, J., Kang, J., Kim, J., Mun, J., Foudeh, A. M., Bao, Z., Lee, T.
2022
- **Organic Neuro-Electronics: From Neural Interface to Neuroprosthetics.** *Advanced materials (Deerfield Beach, Fla.)*
Go, G. T., Lee, Y., Seo, D. G., Lee, T. W.
2022: e2201864
- **Neuromorphic Skin Based on Emerging Artificial Synapses** *ADVANCED MATERIALS TECHNOLOGIES*
Lee, Y., Oh, J., Lee, T.
2022
- **Standalone real-time health monitoring patch based on a stretchable organic optoelectronic system.** *Science advances*
Lee, Y., Chung, J. W., Lee, G. H., Kang, H., Kim, J., Bae, C., Yoo, H., Jeong, S., Cho, H., Kang, S., Jung, J. Y., Lee, D., Gam, et al
2021; 7 (23)
- **Stretchable self-healable semiconducting polymer film for active-matrix strain-sensing array.** *Science advances*
Oh, J. Y., Son, D., Katsumata, T., Lee, Y., Kim, Y., Lopez, J., Wu, H., Kang, J., Park, J., Gu, X., Mun, J., Wang, N. G., Yin, et al
2019; 5 (11): eaav3097
- **Stretchable organic optoelectronic sensorimotor synapse.** *Science advances*
Lee, Y., Oh, J. Y., Xu, W., Kim, O., Kim, T. R., Kang, J., Kim, Y., Son, D., Tok, J. B., Park, M. J., Bao, Z., Lee, T.
2018; 4 (11): eaat7387
- **Stretchable organic optoelectronic sensorimotor synapse** *SCIENCE ADVANCES*
Lee, Y., Oh, J., Xu, W., Kim, O., Kim, T., Kang, J., Kim, Y., Son, D., Tok, J., Park, M., Bao, Z., Lee, T.
2018; 4 (11)
- **An integrated self-healable electronic skin system fabricated via dynamic reconstruction of a nanostructured conducting network** *NATURE NANOTECHNOLOGY*

Son, D., Kang, J., Vardoulis, O., Kim, Y., Matsuhisa, N., Oh, J., To, J. F., Mun, J., Katsumata, T., Liu, Y., McGuire, A. F., Krason, M., Molina-Lopez, et al
2018; 13 (11): 1057-+

● **An integrated self-healable electronic skin system fabricated via dynamic reconstruction of a nanostructured conducting network.** *Nature nanotechnology*

Son, D., Kang, J., Vardoulis, O., Kim, Y., Matsuhisa, N., Oh, J. Y., To, J. W., Mun, J., Katsumata, T., Liu, Y., McGuire, A. F., Krason, M., Molina-Lopez, et al
2018

● **A bioinspired flexible organic artificial afferent nerve** *SCIENCE*

Kim, Y., Chortos, A., Xu, W., Liu, Y., Oh, J., Son, D., Kang, J., Foudeh, A. M., Zhu, C., Lee, Y., Niu, S., Liu, J., Pfattner, et al
2018; 360 (6392): 998-+

● **Tough and Water-Insensitive Self-Healing Elastomer for Robust Electronic Skin** *ADVANCED MATERIALS*

Kang, J., Son, D., Wang, G., Liu, Y., Lopez, J., Kim, Y., Oh, J., Katsumata, T., Mun, J., Lee, Y., Jin, L., Tok, J., Bao, et al
2018; 30 (13): e1706846

● **Deformable Organic Nanowire Field-Effect Transistors** *ADVANCED MATERIALS*

Lee, Y., Oh, J., Kim, T., Gu, X., Kim, Y., Wang, G., Wu, H., Pfattner, R., To, J. F., Katsumata, T., Son, D., Kang, J., Matthews, et al
2018; 30 (7)

● **Deformable Organic Nanowire Field-Effect Transistors.** *Advanced materials (Deerfield Beach, Fla.)*

Lee, Y., Oh, J. Y., Kim, T. R., Gu, X., Kim, Y., Wang, G. N., Wu, H. C., Pfattner, R., To, J. W., Katsumata, T., Son, D., Kang, J., Matthews, et al
2018; 30 (7)