

Stanford



Jeffrey B. Tok

Laboratory Director, Chemical Engineering

Bio

BIO

Education:

The University of Washington, Seattle, WA, B.Sc. (Chemistry & Biochemistry), 1989-1992

The University of Chicago, Chicago, IL, Ph.D. (Bioorganic Chemistry), 1992-1996

Harvard University, Boston, MA, Postdoctoral Research Fellow (Bioorganic Chemistry), 1997-1999

Work Experience:

Assistant Professor, City University of New York, York College and Graduate Center, 1999-2003

Associate Professor, City University of New York, York College and Graduate Center, 2003-2004

Principal Scientist (Indefinite), Lawrence Livermore National Laboratory, 2004-2008

Chief BioScientist, Micropoint Bioscience Inc, 2008-2010

Senior Research Engineer/Scientist, Stanford University, 2010-present

Director, Uytengsu Teaching Center, Shriram Center, 2015-present

Manager, Soft & Hybrid Materials Shared Facility, Stanford Nano Shared Facility, 2010-present

Manager & Instructor, Dept of Chemical Engineering Teaching Lab, 2010-present

Research Activities (via 'Google Scholar'):

<https://scholar.google.com/citations?user=hXSGJC0AAAAJ&hl=en&oi=sra>

LINKS

- Uytengsu Teaching Laboratories at Shriram Center: <https://uytengsuteachinglab.stanford.edu/>

Publications

PUBLICATIONS

- A tissue-like neurotransmitter sensor for the brain and gut. *Nature*

- Li, J., Liu, Y., Yuan, L., Zhang, B., Bishop, E. S., Wang, K., Tang, J., Zheng, Y., Xu, W., Niu, S., Beker, L., Li, T. L., Chen, et al
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- **Topological supramolecular network enabled high-conductivity, stretchable organic bioelectronics.** *Science (New York, N.Y.)*
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 - **High-brightness all-polymer stretchable LED with charge-trapping dilution.** *Nature*
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 - **High-frequency and intrinsically stretchable polymer diodes.** *Nature*
Matsuhisa, N., Niu, S., O'Neill, S. J., Kang, J., Ochiai, Y., Katsumata, T., Wu, H., Ashizawa, M., Wang, G. N., Zhong, D., Wang, X., Gong, X., Ning, et al
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 - **Monolithic optical microlithography of high-density elastic circuits.** *Science (New York, N.Y.)*
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 - **Artificial multimodal receptors based on ion relaxation dynamics.** *Science (New York, N.Y.)*
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2020; 370 (6519): 961-65
 - **Genetically targeted chemical assembly of functional materials in living cells, tissues, and animals.** *Science (New York, N.Y.)*
Liu, J. n., Kim, Y. S., Richardson, C. E., Tom, A. n., Ramakrishnan, C. n., Birey, F. n., Katsumata, T. n., Chen, S. n., Wang, C. n., Wang, X. n., Joubert, L. M., Jiang, Y. n., Wang, et al
2020; 367 (6484): 1372-76
 - **Skin electronics from scalable fabrication of an intrinsically stretchable transistor array** *NATURE*
Wang, S., Xu, J., Wang, W., Wang, G., Rastak, R., Molina-Lopez, F., Chung, J., Niu, S., Feig, V. R., Lopez, J., Lei, T., Kwon, S., Kim, et al
2018; 555 (7694): 83-+
 - **Highly stretchable polymer semiconductor films through the nanoconfinement effect** *SCIENCE*
Xu, J., Wang, S., Wang, G. N., Zhu, C., Luo, S., Jin, L., Gu, X., Chen, S., Feig, V. R., To, J. W., Rondeau-Gagne, S., Park, J., Schroeder, et al
2017; 355 (6320): 59-?
 - **Intrinsically stretchable and healable semiconducting polymer for organic transistors** *NATURE*
Oh, J. Y., Rondeau-Gagne, S., Chiu, Y., Chortos, A., Lissel, F., Wang, G. N., Schroeder, B. C., Kurosawa, T., Lopez, J., Katsumata, T., Xu, J., Zhu, C., Gu, et al
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