

# Stanford

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## Zhiyuan Chen

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### Bio

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#### STANFORD ADVISORS

- H. Tom Soh, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Soft, bioresorbable, transparent microelectrode arrays for multimodal spatiotemporal mapping and modulation of cardiac physiology.** *Science advances* Chen, Z., Lin, Z., Obaid, S. N., Rytkin, E., George, S. A., Bach, C., Madrid, M., Liu, M., LaPiano, J., Fehr, A., Shi, X., Quirion, N., Russo, et al 2023; 9 (27): eadi0757
- **Graphene Biointerface for Cardiac Arrhythmia Diagnosis and Treatment.** *Advanced materials (Deerfield Beach, Fla.)* Lin, Z., Kireev, D., Liu, N., Gupta, S., LaPiano, J., Obaid, S. N., Chen, Z., Akinwande, D., Efimov, I. R. 2023; 35 (22): e2212190
- **Transparent and Stretchable Au#Ag Nanowire Recording Microelectrode Arrays.** *Advanced materials technologies* Chen, Z., Nguyen, K., Kowalik, G., Shi, X., Tian, J., Doshi, M., Alber, B. R., Guan, X., Liu, X., Ning, X., Kay, M. W., Lu, L. 2023; 8 (10)
- **Flexible Electro-Optical Arrays for Simultaneous Multi-Site Colocalized Spatiotemporal Cardiac Mapping and Modulation** *ADVANCED OPTICAL MATERIALS* Obaid, S. N., Chen, Z., Madrid, M., Lin, Z., Tian, J., Humphreys, C., Adams, J., Daza, N., Balansag, J., Efimov, I. R., Lu, L. 2022; 10 (23)
- **Flexible and Transparent Metal Nanowire Microelectrode Arrays and Interconnects for Electrophysiology, Optogenetics, and Optical Mapping** *ADVANCED MATERIALS TECHNOLOGIES* Chen, Z., Boyajian, N., Lin, Z., Yin, R. T., Obaid, S. N., Tian, J., Brennan, J. A., Chen, S. W., Miniovich, A. N., Lin, L., Qi, Y., Liu, X., Efimov, et al 2021; 6 (7)
- **Advanced Electrical and Optical Microsystems for Biointerfacing** *ADVANCED INTELLIGENT SYSTEMS* Obaid, S. N., Chen, Z., Lu, L. 2020; 2 (9)
- **Flexible and Transparent Metal Oxide/Metal Grid Hybrid Interfaces for Electrophysiology and Optogenetics.** *Advanced materials technologies* Chen, Z., Yin, R. T., Obaid, S. N., Tian, J., Chen, S. W., Miniovich, A. N., Boyajian, N., Efimov, I. R., Lu, L. 2020; 5 (8)
- **Wireless, battery-free subdermally implantable photometry systems for chronic recording of neural dynamics.** *Proceedings of the National Academy of Sciences of the United States of America* Burton, A., Obaid, S. N., Vázquez-Guardado, A., Schmit, M. B., Stuart, T., Cai, L., Chen, Z., Kandela, I., Haney, C. R., Waters, E. A., Cai, H., Rogers, J. A., Lu, et al 2020; 117 (6): 2835-2845
- **Recent advances in organic optoelectronic devices for biomedical applications** *OPTICAL MATERIALS EXPRESS* Chen, Z., Obaid, S. N., Lu, L. 2019; 9 (9): 3843-3856

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- All-Solid-State Asymmetric Supercapacitors with Metal Selenides Electrodes and Ionic Conductive Composites Electrolytes *ADVANCED FUNCTIONAL MATERIALS*

Chen, Z., Yang, Y., Ma, Z., Zhu, T., Liu, L., Zheng, J., Gong, X.  
2019; 29 (38)