



## Song Zhang

Postdoctoral Research Fellow, Chemical Engineering

 Curriculum Vitae available Online

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### Bio

#### STANFORD ADVISORS

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

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### Publications

#### PUBLICATIONS

- **Backbone flexibility on conjugated polymer's crystallization behavior and thin film mechanical stability** *JOURNAL OF POLYMER SCIENCE*  
Qian, Z., Galuska, L. A., Ma, G., McNutt, W. W., Zhang, S., Mei, J., Gu, X.  
2021
- **Ultra-conformal skin electrodes with synergistically enhanced conductivity for long-time and low-motion artifact epidermal electrophysiology** *NATURE COMMUNICATIONS*  
Zhao, Y., Zhang, S., Yu, T., Zhang, Y., Ye, G., Cui, H., He, C., Jiang, W., Zhai, Y., Lu, C., Gu, X., Liu, N.  
2021; 12 (1): 4880
- **Water-assisted mechanical testing of polymeric thin-films** *JOURNAL OF POLYMER SCIENCE*  
Zhang, S., Galuska, L. A., Gu, X.  
2021
- **Enhancing the Solubility of Semiconducting Polymers in Eco-Friendly Solvents with Carbohydrate-Containing Side Chains.** *ACS applied materials & interfaces*  
Mooney, M., Wang, Y., Nyayachavadi, A., Zhang, S., Gu, X., Rondeau-Gagne, S.  
2021; 13 (21): 25175-25185
- **SMART transfer method to directly compare the mechanical response of water-supported and free-standing ultrathin polymeric films** *NATURE COMMUNICATIONS*  
Galuska, L. A., Muckley, E. S., Cao, Z., Ehlenberg, D. F., Qian, Z., Zhang, S., Rondeau-Gagne, S., Phan, M. D., Ankner, J. F., Ivanov, I. N., Gu, X.  
2021; 12 (1): 2347
- **Engineering donor-acceptor conjugated polymers for high-performance and fast-response organic electrochemical transistors dagger** *JOURNAL OF MATERIALS CHEMISTRY C*  
Jia, H., Huang, Z., Li, P., Zhang, S., Wang, Y., Wang, J., Gu, X., Lei, T.  
2021; 9 (14): 4927-4934
- **Efficient n-Doping of Polymeric Semiconductors through Controlling the Dynamics of Solution-State Polymer Aggregates** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*  
Xiong, M., Yan, X., Li, J., Zhang, S., Cao, Z., Prine, N., Lu, Y., Wang, J., Gu, X., Lei, T.  
2021; 60 (15): 8189-8197
- **Spontaneously supersaturated nucleation strategy for high reproducible and efficient perovskite solar cells** *CHEMICAL ENGINEERING JOURNAL*

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Li, B., Zhang, Q., Zhang, S., Ahmad, Z., Chidanguro, T., Davis, A., Simon, Y. C., Gu, X., Zheng, W., Pradhan, N., Dai, Q.  
2021; 405

- **Tuning the Mechanical Properties of a Polymer Semiconductor by Modulating Hydrogen Bonding Interactions** *CHEMISTRY OF MATERIALS*  
Zheng, Y., Ashizawa, M., Zhang, S., Kang, J., Nikzad, S., Yu, Z., Ochiai, Y., Wu, H., Tran, H., Mun, J., Zheng, Y., Tok, J., Gu, et al  
2020; 32 (13): 5700–5714
- **An Intrinsically Stretchable High-Performance Polymer Semiconductor with Low Crystallinity** *ADVANCED FUNCTIONAL MATERIALS*  
Zheng, Y., Wang, G., Kang, J., Nikolka, M., Wu, H., Tran, H., Zhang, S., Yan, H., Chen, H., Yuen, P., Mun, J., Dauskardt, R. H., McCulloch, et al  
2019
- **Tuning the Cross-Linker Crystallinity of a Stretchable Polymer Semiconductor** *CHEMISTRY OF MATERIALS*  
Wang, G., Zheng, Y., Zhang, S., Kang, J., Wu, H., Gasperini, A., Zhang, H., Gu, X., Bao, Z.  
2019; 31 (17): 6465–75
- **Wafer-Scale Fabrication of High-Performance n-Type Polymer Monolayer Transistors Using a Multi-Level Self-Assembly Strategy** *ADVANCED MATERIALS*  
Yao, Z., Zheng, Y., Li, Q., Lei, T., Zhang, S., Zou, L., Liu, H., Dou, J., Lu, Y., Wang, J., Gu, X., Pei, J.  
2019; 31 (7)
- **Wafer-Scale Fabrication of High-Performance n-Type Polymer Monolayer Transistors Using a Multi-Level Self-Assembly Strategy.** *Advanced materials (Deerfield Beach, Fla.)*  
Yao, Z., Zheng, Y., Li, Q., Lei, T., Zhang, S., Zou, L., Liu, H., Dou, J., Lu, Y., Wang, J., Gu, X., Pei, J.  
2018: e1806747