



## Ruiheng Wu

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### Bio

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#### STANFORD ADVISORS

- Zhenan Bao, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Bridging length scales in organic mixed ionic-electronic conductors through internal strain and mesoscale dynamics.** *Nature materials*  
Wu, R., Meli, D., Strzalka, J., Narayanan, S., Zhang, Q., Paulsen, B. D., Rivnay, J., Takacs, C. J.  
2024
- **Time-Resolved Structural Kinetics of an Organic Mixed Ionic-Electronic Conductor.** *Advanced materials (Deerfield Beach, Fla.)*  
Paulsen, B. D., Wu, R., Takacs, C. J., Steinruck, H., Strzalka, J., Zhang, Q., Toney, M. F., Rivnay, J.  
2020: e2003404
- **Charge state-dependent ion condensation near conjugated polymer backbones** *MATERIALS HORIZONS*  
Meli, D., Thomas, Q., Rolland, N., Freychet, G., Kousseff, C. J., Cavassin, P., Flagg, L. Q., Lemaur, V., Surendran, A., Hamid, Z., Griggs, S., Wu, R., Huerta, et al  
2025
- **The Influence of Alkyl Spacers and Molecular Weight on the Charge Transport and Storage Properties of Oxy-Bithiophene-Based Conjugated Polymers.** *Angewandte Chemie (International ed. in English)*  
Yu, H., Marks, A., Tuladhar, S. M., Siemons, N., Anderson, I., Bidinger, S., Keene, S. T., Quill, T. J., Wu, R., Gough, O., Wu, G., Eisner, F., Salleo, et al  
2024: e202417897
- **Decoupling the Influence of Poly(3,4-Ethylenedioxythiophene)-Collagen Composite Characteristics on Cell Stemness** *ADVANCED SCIENCE*  
Keate, R. L., Tropp, J., Wu, R., Petty II, A. J., Ameer, G. A., Rivnay, J.  
2024; 11 (27): e2305562
- **Enhancement of Conjugated Polymer Microstructure and Mixed-Conducting Properties via Chalcogenophene Heteroatom Substitution** *CHEMISTRY OF MATERIALS*  
Paulsen, B. D., Meli, D., Moser, M., Marks, A., Ponder Jr, J. F., Wu, R., Schafer, E. A., Strzalka, J., Zhang, Q., Mcculloch, I., Rivnay, J.  
2024
- **Synthetic Nuances to Maximize n-Type Organic Electrochemical Transistor and Thermoelectric Performance in Fused Lactam Polymers.** *Journal of the American Chemical Society*  
Marks, A., Chen, X., Wu, R., Rashid, R. B., Jin, W., Paulsen, B. D., Moser, M., Ji, X., Griggs, S., Meli, D., Wu, X., Bristow, H., Strzalka, et al  
2022
- **Electrochemistry of Thin Films with In Situ/Operando Grazing Incidence X-Ray Scattering: Bypassing Electrolyte Scattering for High Fidelity Time Resolved Studies.** *Small (Weinheim an der Bergstrasse, Germany)*

Paulsen, B. D., Giovannitti, A., Wu, R., Strzalka, J., Zhang, Q., Rivnay, J., Takacs, C. J.

2021: e2103213

- **The Effect of Alkyl Spacers on the Mixed Ionic-Electronic Conduction Properties of N-Type Polymers** *ADVANCED FUNCTIONAL MATERIALS*

Maria, I. P., Paulsen, B. D., Savva, A., Ohayon, D., Wu, R., Hallani, R., Basu, A., Du, W., Anthopoulos, T. D., Inal, S., Rivnay, J., McCulloch, I., Giovannitti, et al

2021