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Publications

PUBLICATIONS

- **High Energy Density Shape Memory Polymers Using Strain-Induced Supramolecular Nanostructures.** *ACS central science*
  2021; 7 (10): 1657-1667

- **Modular Synthesis of Fully Degradable Imine-Based Semiconducting p-Type and n-Type Polymers** *CHEMISTRY OF MATERIALS*
  2021; 33 (18): 7465-7474

- **Influence of solution-state aggregation on conjugated polymer crystallization in thin films and microwire crystals** *GIANT*
  2021; 7

- **A Design Strategy for Intrinsically Stretchable High-Performance Polymer Semiconductors: Incorporating Conjugated Rigid Fused-Rings with Bulky Side Groups.** *Journal of the American Chemical Society*
  2021

- **Metal-Ligand Based Mechanophores Enhance Both Mechanical Robustness and Electronic Performance of Polymer Semiconductors** *ADVANCED FUNCTIONAL MATERIALS*
  2021

- **Monolithic optical microlithography of high-density elastic circuits.** *Science (New York, N.Y.)*
  2021; 373 (6550): 88-94

- **Tuning Conjugated Polymer Chain Packing for Stretchable Semiconductors.** *Advanced materials (Deerfield Beach, Fla.)*
  2021: e2104747

- **Tuning the Mechanical Properties of a Polymer Semiconductor by Modulating Hydrogen Bonding Interactions** *CHEMISTRY OF MATERIALS*
  2020; 32 (13): 5700–5714

- **Inducing Molecular Aggregation of Polymer Semiconductors in a Secondary Insulating Polymer Matrix to Enhance Charge Transport** *CHEMISTRY OF MATERIALS*
  Nikzad, S., Wu, H., Kim, J., Mahoney, C. M., Matthews, J. R., Niu, W., Li, Y., Wang, H., Chen, W., Toney, M. F., He, M., Bao, Z.
  2020; 32 (2): 897–905

- **Multivalent Assembly of Flexible Polymer Chains into Supramolecular Nanofibers.** *Journal of the American Chemical Society*
  2020

- **Effect of Extensional Flow on the Evaporative Assembly of a Donor-Acceptor Semiconducting Polymer** *ACS APPLIED ELECTRONIC MATERIALS*
  Nikzad, S., Wu, H., Wang, G., Yan, H., Schneider, S. A., Toney, M. F., Bao, Z.