



Matias Horst

Ph.D. Student in Chemistry, admitted Autumn 2018

Publications

PUBLICATIONS

- **Mechanochemistry of Pterodactylane.** *Journal of the American Chemical Society*
Horst, M., Meisner, J., Yang, J., Kouznetsova, T. B., Craig, S. L., Martínez, T. J., Xia, Y.
2023
- **Synthesis of Contorted Polycyclic Conjugated Hydrocarbons via Regioselective Activation of Cyclobutadienoids.** *Journal of the American Chemical Society*
Yin, X., Zheng, K., Jin, Z., Horst, M., Xia, Y.
2022
- **Understanding the Mechanochemistry of Ladder-Type Cyclobutane Mechanophores by Single Molecule Force Spectroscopy.** *Journal of the American Chemical Society*
Horst, M., Yang, J., Meisner, J., Kouznetsova, T. B., Martinez, T. J., Craig, S. L., Xia, Y.
2021
- **Bicyclohexene-peri-naphthalenes: Scalable Synthesis, Diverse Functionalization, Efficient Polymerization, and Facile Mechanoactivation of Their Polymers.** *Journal of the American Chemical Society*
Yang, J., Horst, M., Werby, S. H., Cegelski, L., Burns, N. Z., Xia, Y.
2020; 142 (34): 14619–26
- **Benzoladderene Mechanophores: Synthesis, Polymerization, and Mechanochemical Transformation** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Yang, J., Horst, M., Romaniuk, J. H., Jin, Z., Cegelski, L., Xia, Y.
2019; 141 (16): 6479–83