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Peer-reviewed publications from independent career:

- 2024 **Ams, M. R.**; McAuliffe, J.; Semenick, R.; Zeller, M. Self-replication Without Hydrogen-bonds: An Exobiotic Design. *Chem. Eur. J.* 2024, e202001446.
- 2019 **Ams, M. R.**; Trapp, N.; Schwab, A.; Milić, J. V.; Diederich, F. Chalcogen Bonding “2S—2N Squares” versus Competing Interactions: Exploring the Recognition Properties of Sulfur. *Chem. Eur. J.* 2019, 25, 323—333.
- 2016 Sherman, M. C.; **Ams, M. R.**; Jordan, K. D. Symmetry-Adapted Perturbation Theory Energy Analysis of Alkyl Fluorine-Aromatic Interactions in Torsion Balance Systems. *J. Phys. Chem. A.* 2016, 120, 9292—9298.
- 2015 **Ams, M. R.**; Fields, M.; Grabnic, T.; Janesko, B. G.; Zeller, M.; Sheridan, R.; Shay, A. Unraveling the Role of Alkyl F on CH— π Interactions and Uncovering the Tipping Point of Fluorophobicity. *J. Org. Chem.* 2015, 80, 7764—7769.
- 2014 Janesko, B. G.; **Ams, M. R.** Dispersion-corrected DFT study on methano and ethano bridged Wilcox torsion balances. *Theor. Chem. Acc.* 2014, 133, 1490.
- 2011 Bhayana, B.; **Ams, M. R.** Effect of Diazocine Bridgehead Modification on the Folding of the Wilcox Molecular Torsion Balance: A View from a Different Angle. *J. Org. Chem.* 2011, 76, 3594—3596.

Peer-reviewed publications from post-doctoral and graduate work:

- 2010 Dube, H.; **Ams, M. R.**; Rebek, J., Jr. Supramolecular Control of Fluorescence through Reversible Encapsulation. *J. Am. Chem. Soc.* 2010, 132, 9984—9985.
- 2009 **Ams, M. R.**; Ajami, D.; Craig, S. L.; Yang, J.; Rebek, J., Jr. Control of stilbene conformation and fluorescence in self-assembled capsules. *Beilstein J. Org. Chem.* 2009, 5, 79.
- 2009 **Ams, M. R.**; Ajami, D.; Craig, S. L.; Yang, J.; Rebek, J., Jr. “Too Small, Too Big, and Just Right” – Optical Sensing of Molecular Conformations in Self-Assembled Capsules. *J. Am. Chem. Soc.* 2009, 131, 13190—13191.
- 2007 **Ams, M. R.**; Wilcox, C. S. Benzil-Tethered Precipitons for Controlling Solubility: A Round-Trip Energy-Transfer Mechanism in the Isomerization of Extended Stilbene Analogues. *J. Am. Chem. Soc.* 2007, 129, 3966—3972.
- 2006 **Ams, M. R.**; Wilcox, C. S. Intramolecularly Sensitized Precipitons: A Model System for Application to Metal Sequestration. *J. Am. Chem. Soc.* 2006, 128, 250—256.