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Guest Editing: *Chem. Eur. J.* (expected 2023), *Eur. J. Inorg. Chem.* (expected 2023), *J. Org. Chem.* (2020), *Dalton Trans.* (2016) and *Inorg. Chim. Acta* (2014)

Co-developer, CSC (now ACS) New Faculty Workshop in Chemistry (2012 present)

Director, Noyce Summer Internship Program (2009–2015)

Director, Project SEED at UVM (2007 present)

Funding

>\$3.0M in sole-PI funding and >\$3.5M in joint funding since 2007.

Selected recent publications (>90 peer-reviewed papers; 3 book chapters; 6 editorials, etc.)

§ invited manuscript

§Reuter, M. B.; Seth, J., D. M.; Javier-Jiménez, D. R.; Finfer, E.; Beretta, E. A.; Waterman, R. Recent Advances in Catalytic Pnictogen Bond Forming Reactions via Dehydrocoupling and Hydrofunctionalization *Chem. Rev.* **2022**, *22*, 1258–1273.

Dannenberg, S. D.; Seth, Jr. S. M.; Finfer, E. J.; Waterman, R. Divergent Mechanistic Pathways for Copper(I) Hydrophosphination Catalysis; Understanding that Allows for Diastereoselective Hydrophosphination of a Tri-substituted Styrene *J. Am. Chem. Soc.* **2022**, *144*, 550–562.

§Novas, B. T.; Waterman, R. Metal-Catalyzed Hydrophosphination *Chem. Rev.* **2022**, *22*, e202200988.

§Danneberg, S. D.; Waterman, R. *η*⁵-tetrakis(*i*-diphenylphosphido)-1,5-bis(tri-*n*-butylphosphine)-tetracopper *J. Am. Chem. Soc.* **2022**, *144*, M1334 (featured on cover)

§Novas, B. T.; Morris, J. A.; Liptak, M. D.; Waterman, R. Effect of Photolysis on Zirconium Amino Phenoxides for the Hydrophosphination of Alkenes: Improving Catalysis *J. Am. Chem. Soc.* **2022**, *144*, 77–87.

§Reuter, M. B.; Hageman, K.; Waterman, R. Silicon–Nitrogen Bond Formation via Heterodehydrocoupling and Catalytic N–Silylation *J. Am. Chem. Soc.* **2022**, *144*, 3251–3261.

Dannenberg, S. G.; Waterman, R. A Bench-Stable Catalyst for the Rapid Hydrophosphination of Activated and Unactivated Alkenes *J. Am. Chem. Soc.* **2022**, *144*, 14219–14222.

Pagano, J. K.; Xie, J.; Erickson, K. A.; Cope, S. K.; Scott, B. L.; Wu, R.; Waterman, R.; Morris, D. E.; Yang, P.; Gagliardi, L.; Kiplinger, J. L. Synthesis, characterization and electronic structure of actinide metallabiphenylene complexes: Tuning electron delocalization with actinides *J. Am. Chem. Soc.* **2022**, *144*, 563–567

Patents

Waterman, R.; Ackley, B. J. Low-Temperature Formation of Group 13-15 Ceramics and Group 13-15-16 Ceramics, U.S. 62/817,278 (non-provisional), February 11, 2020.

Waterman, R.; Ackley, B. J. Methods of Preparing Primary Phosphines Using a Lewis Acid Catalyst, U.S. 62/960,773 (non-provisional), January 7, 2021.

Books

Expanding the CURE Model: Course-based Undergraduate Research Experiences Waterman, R. and Heemstra, J., Eds. Research Corporation for Science Advancement: Tucson, A.Z., 2018.

Educational and Outreach Projects from the Cottrell Scholars Collaborative: Undergraduate and Graduate education, Volumes 1 & 2 Waterman, R. and Feig, A. L., Eds. American Chemical Society: Washington, D.C., 2017.