

Jordan Stracke



Graduate Institution: Colorado State University

Location: Fort Collins, CO

Graduate Discipline: Inorganic Chemistry

Hometown: St. Cloud, MN

Research Interests:

I am interested in a broad range of research areas including photochemistry, electrochemistry, catalysis, and synthesis. By combining knowledge from these disciplines, I aim to solve basic research problems in the field of renewable energy. Currently I am developing artificial photosynthetic systems based on organic semiconductors coupled to efficient catalysts; these devices will use solar energy to split H_2O into O_2 and H_2 . Understanding how these systems work at a fundamental level will contribute towards the development of highly efficient artificial photosynthetic devices.

About me:

My current interest in renewable energy research derives from my educational background as well as a love for the outdoors. I received my B.A. in chemistry from Luther College in 2008. While attending Luther and under the direction of Professor Chamberlain, I investigated catalysts used to produce bio-based polymers. I also researched small molecule protein labels with Professor Distefano at the University of Minnesota in the summer of 2006. At Colorado State University (CSU), prior to beginning graduate, I studied enantioselective organic reactions in the research group of Professor Rovis. I am currently working towards my Ph.D. under the supervision of Professor Finke (at CSU) and Dr. Gregg (at the National Renewable Energy Lab); my research involves the development and testing of artificial photosynthetic systems. When not at work I enjoy hiking and spending time outdoors with my wife and two dogs. After graduate school I wish to pursue an academic career so I can teach others and continue energy related research.



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