CENTER FOR EXCITONICS PEROVSKITE SEMINAR SERIES

center for eXcitonics

Proton-Coupled Electron Transfer Processes Underpinning the Production of Renewable Fuels

Jillian Dempsey
University of North Carolina
Department of Chemistry

December 12, 2017 – 4:30 pm/rm 36-428

Jillian Dempsey is an Assistant Professor of Chemistry at the University of North Carolina. She received her BS from MIT in 2005 and her PhD from California Institute of Technology in 2011. She was a NSF American Competitiveness in Chemistry Postdoctoral Fellow at the University of Washington, Seattle from 2011-2012. She received the UNC Junior Faculty Development Award, NSF CAREER Award, and the Packard Fellowship for Science and Engineering in 2015. In 2016, she was awarded the Air Force Office of Scientific Research Young Investigator Award, and the Sloan Research Fellowship. Research in Dempsey's Inorganic Spectroscopy and Solar Energy Conversion group aims to address challenges associated with developing efficient solar energy conversion processes. They are particularly interested in the charge-transfer processes that will ultimately govern efficiency in solar fuel production devices: proton-coupled electron transfer reactions, electron transfer across the interface between a catalyst and semiconductor, and the reduction of protons to hydrogen.

rLe AT MIT

The Center for Excitonics is an Energy Frontier Research Center funded by the U.S. Department of Energy, Office of Science and Office of Basic Energy Sciences