

Inorganic Seminar

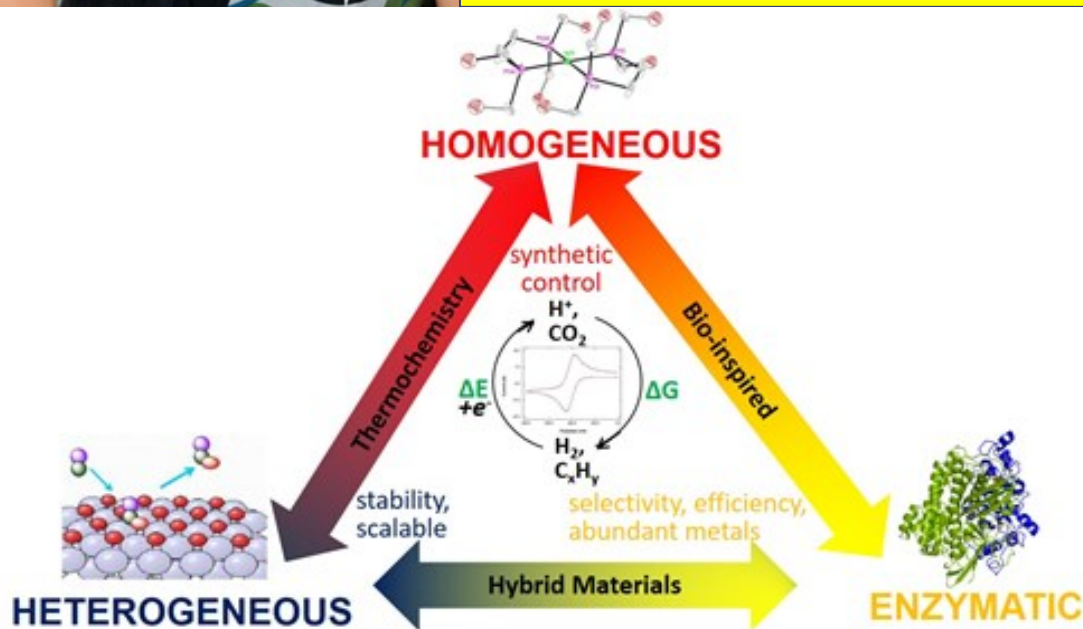
Title: "(Electro)catalysis for Renewable Fuels"



Monday, September 10, 4:00pm
Hutchison Hall 473
University of Rochester
Department of Chemistry

Guest Speaker:

Professor Jenny Y. Yang
University of California-Irvine
Department of Chemistry



Abstract: My research program is focused on developing molecular catalysts for energy conversion (redox) reactions. We focus on the thermochemistry of key bond-making and cleavage steps for H⁺ reduction to H₂ and CO₂ reduction to HCO₂⁻. We also design new ligand frameworks to explore bio-inspired secondary coordination sphere effects on reactivity. These include proton acceptors to mediate multi-proton, multi-electron processes such as oxidation of H₂O to O₂ as well as the effect of incorporating a non-redox active metal ion to tune redox potentials and reactivity through an electrostatic field potential.

Host: Michael Neidig • Email: michael.neidig@rochester.edu