MISSION: To establish the fundamental principles needed for efficient interconversion of electrical energy and chemical bonds through precise control of electron and proton transfers.

RESEARCH PLAN

CME targets fundamental discoveries in molecular electrocatalysis and interfacial reactivity to achieve fast, energy-efficient interconversion of electrical and chemical energy. CME’s approach to the design of electrocatalysts exploits the emerging area of electron-proton transfer mediators and takes a molecular approach to heterogeneous interfaces.