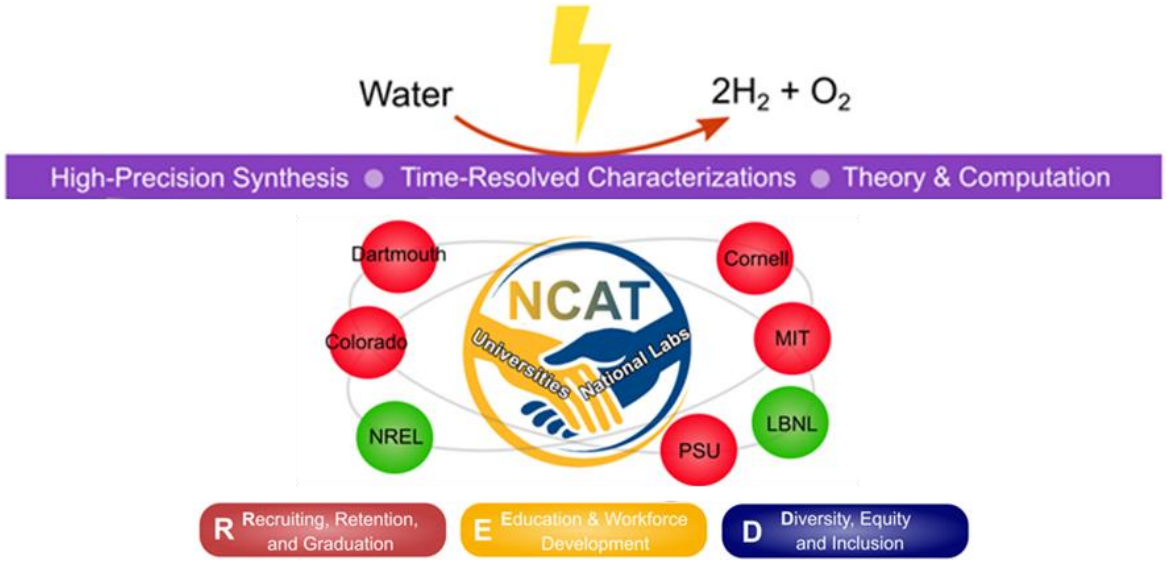
Center for Electrochemical Dynamics and Reactions on Surfaces (CEDARS)

Dhananjay Kumar (North Carolina A & T State University); Class: 2022-2026

MISSION: To reveal the formation of the transient intermediates of oxygen evolution reaction and hydrogen evolution reaction and how the catalyst evolves before, during, and after catalysis.



RESEARCH PLAN: CEDARS tracks the electron and proton transfer process and surface bond formation and dissociation during the hydrogen production from water splitting. CEDARS integrates high-precision materials growth with studies of the intermediates by multi-modal scattering and spectroscopy approaches, and first-principles modeling. CEDARS is multidisciplinary in nature. Its plan interweaves across disciplines, from materials, chemical, to computational sciences.

www.cedars-ncat.org

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