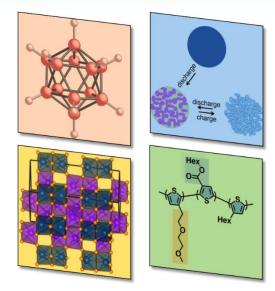
Synthetic Control Across Length-scales for Advancing Rechargeable (SCALAR) Sarah Tolbert (University of California, Los Angeles); Class: 2018-2022

MISSION: To use the power of synthetic materials chemistry to design materials, interfaces, and architectures that help solve long-standing problems in electrochemical energy storage



http://www.chem.ucla.edu/SCALAR

RESEARCH PLAN

The SCALAR center aims to take a holistic approach to the design of new functional materials that bridges the atomistic, nanometer, and macro length-scales in the quest to improve battery performance. To achieve this goal, the team will leverage molecular and solid-state synthetic methods, combined with solution phase self-assembly, to create new electrode materials that increase capacity, reduce losses, and improve reversibility in rechargeable batteries.





