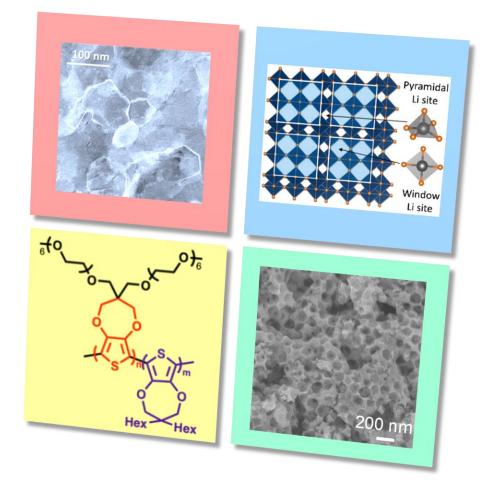
Synthetic Control Across Length-scales for Advancing Rechargeable (SCALAR) Sarah Tolbert (University of California, Los Angeles); Class: 2018-2024

**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.

## **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 do this, the center 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.



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

SYNTHETIC CONTROL ACROSS LENGTH-SCALES

 $S C \Delta I \Delta R$ 

FOR ADVANCING RECHARGEABLES

