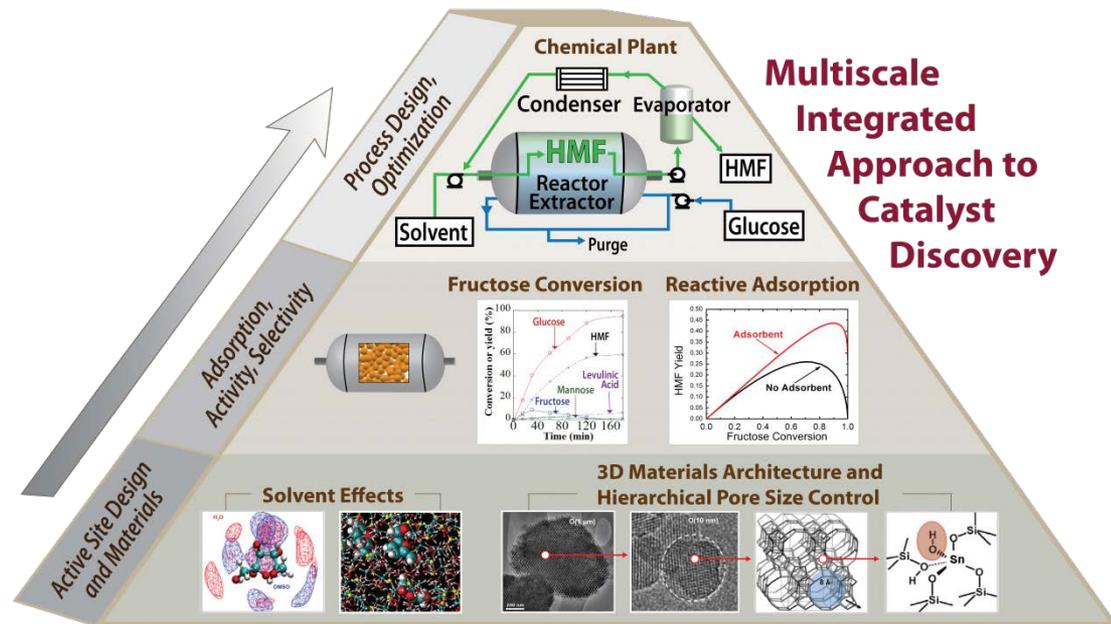


CCEI focuses on developing innovative, transformational heterogeneous catalytic technologies that can be utilized in future biorefineries to convert lignocellulosic (non-food-based) biomass into economically viable chemicals and fuels.



## RESEARCH PLAN AND DIRECTIONS

Biomass feedstocks vary considerably by source, and their transformation entails complex, multiscale reactions and processes. Based on a fundamental understanding of the *underlying* chemistry, CCEI develops novel catalytic materials and processes to set the foundations for the operation of modern biorefineries for carbon neutral production of chemicals and fuels.