“Here at the Li Research Group, we focus on the design, synthesis, and characterization of nanomaterial-based catalyst and reagent particles for biomass and fossil energy conversions, green liquid fuel synthesis, CO₂ capture, and pollutant control. Our research also encompasses chemical reaction engineering and process synthesis and optimization. Density Functional Theory (DFT) based methods are also used to elucidate the particle reaction mechanisms and to identify potential ways to improve particle performance.”

– Fanxing Li, Alcoa Professor & University Faculty Scholar