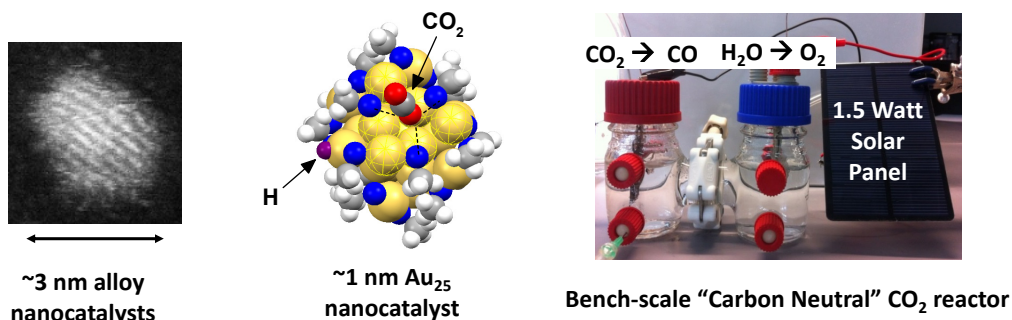


“Carbon Neutral” Electrochemical CO₂ Conversion

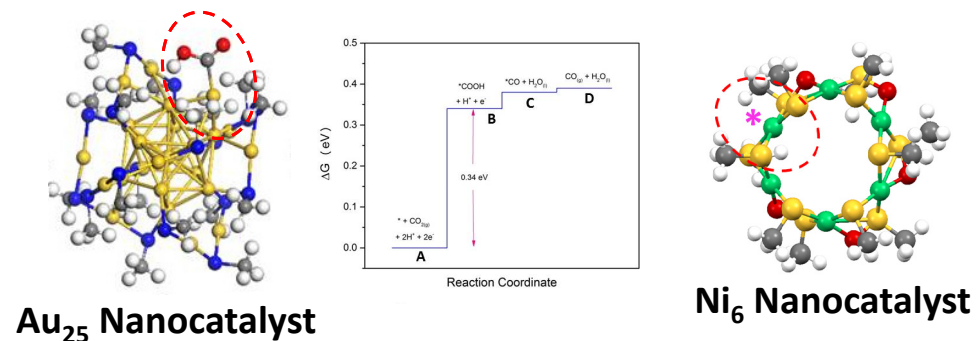
Advanced catalysts with record-setting reaction rates and renewably-powered reactor systems



D. Kauffman & D. Alfonso: J. Am. Chem. Soc., J. Phys. Chem. C, J Phys Chem. Lett. Chem. Sci., ACS Catalysis & ACS Appl. Mater. Interfaces.

“Computational Electrochemistry”

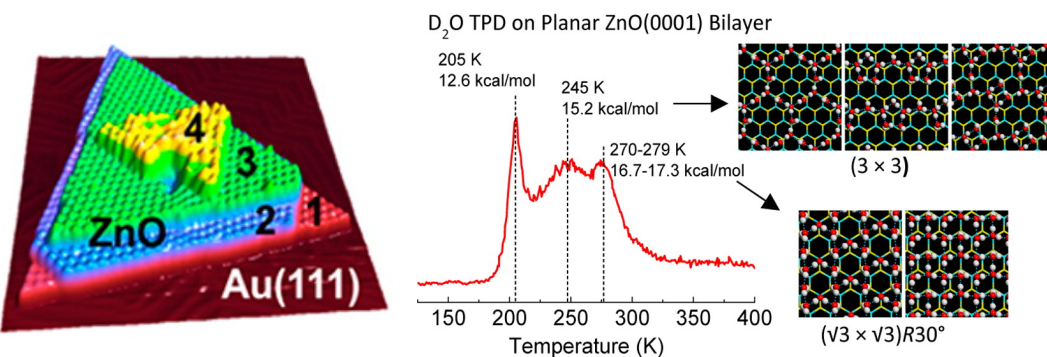
Cutting-edge computational techniques provide chemical details and screen new nanocatalyst systems



D. Alfonso & D Kauffman: ACS Catalysis & J. Chem. Phys.

“2D” Nanomaterials with Enhanced Reactivity

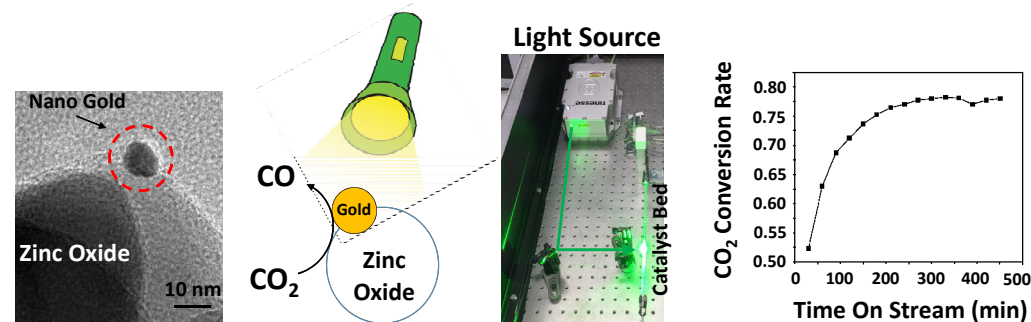
World-class synthetic and characterization techniques produce unique properties and chemical reactivity



J. Lee & X. Deng: J. Am. Chem. Soc., J. Phys. Chem. Lett. & J. Phys. Chem. C

Light-Based “Plasmonic Reactor”

World's first demonstration of this transformational technology!
A zinc + gold nanocatalyst uses light to convert CO₂



S. Hammache & C. Matranga