



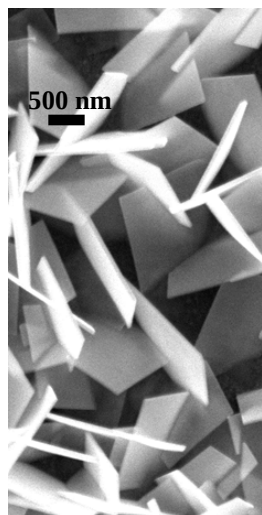
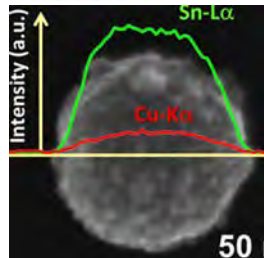
Welcome to Austin!!



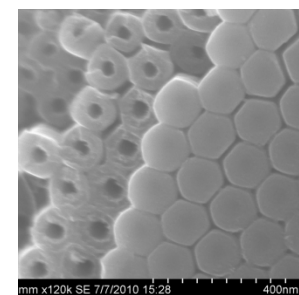
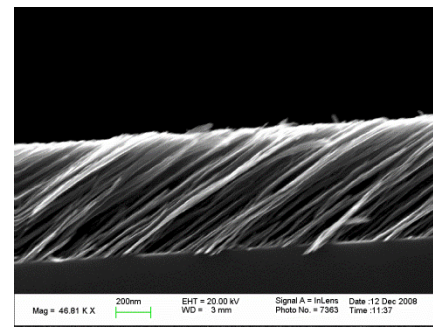
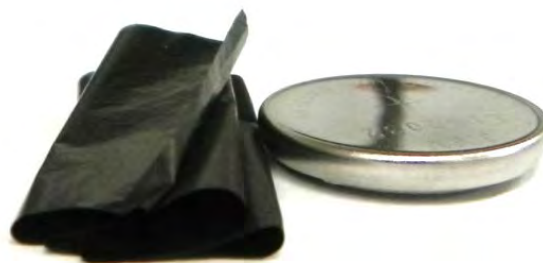
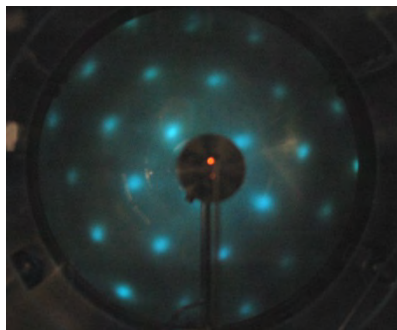
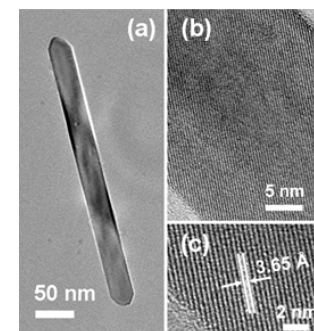
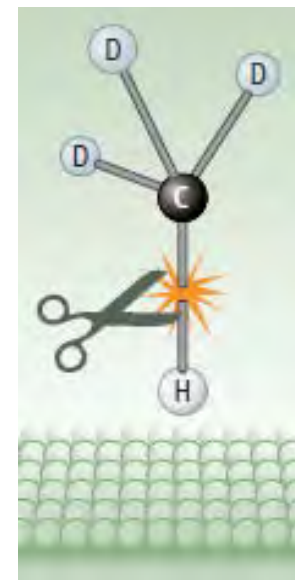
Mullins Research Group – Materials Chemistry for Energy



UT-Austin Chemical Engr. is a Special Place!



CPE Building and Fall Colors





UT-Austin Chemical Engineering is Great ... and so is Austin, TX!



Barton Springs Pool



Favorite Austin Critters - Bats





Wonderful Professors *and* a Beautiful City!



Truskett



Ganesan



Johnston



Baldea



Georgiou



Aerial View of UT-Austin



Hildebrandt Ruiz



Freeman



Milliron



Hwang



Alper



Korgel



Ellison



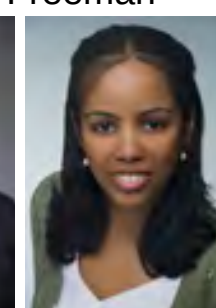
Lynd



Bonnacaze



Ekerdt

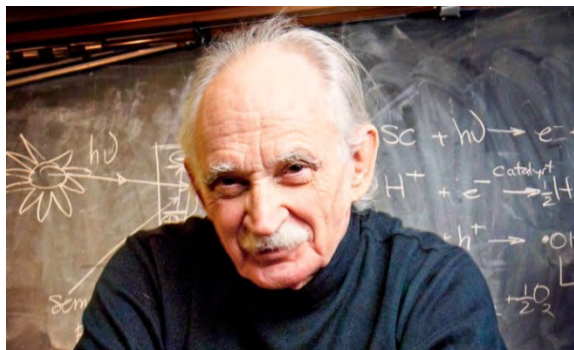


Contreras

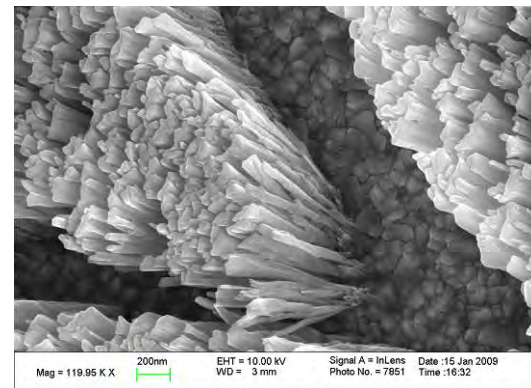


Materials Chemistry for Energy

1. Nano-Structured Materials for Solar → Photoelectrocatalysis for Fuels

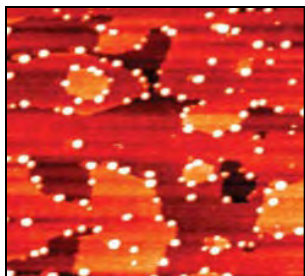


Allen Bard



Iron Oxide NanoColumns

2.



Gold Clusters on Titania

Surface Chemistry,
Catalysis & Electrocatlysis



Gyeong Hwang

&



Graeme Henkelman

&

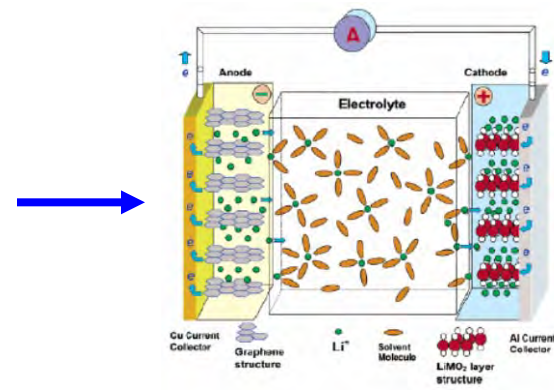


Dick Crooks

3. Electrode Materials for Li-Ion & Na-Ion Batteries



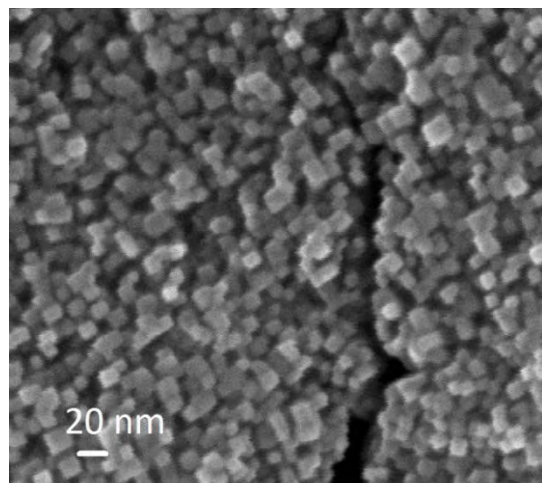
Adam Heller





A day in the labs

Hydrothermal Synthesis

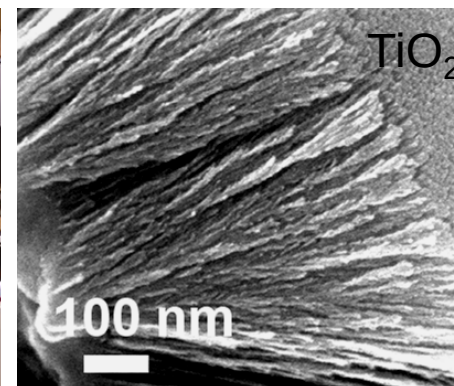
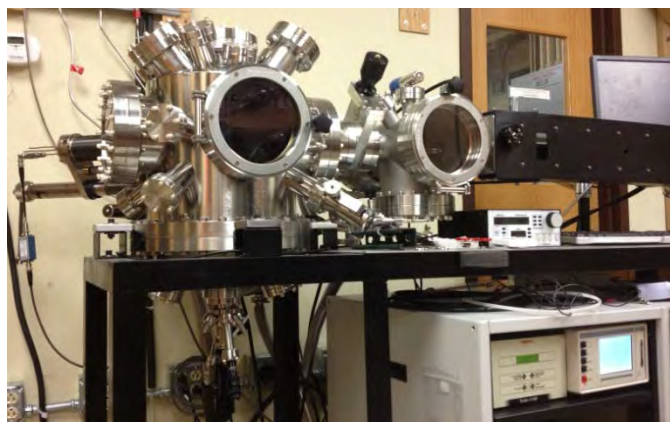
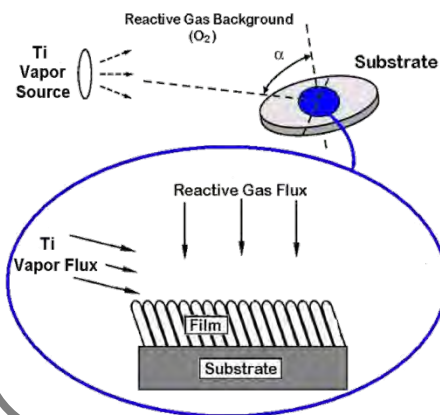


Electrocatalysis



Potential vs RHE (V)

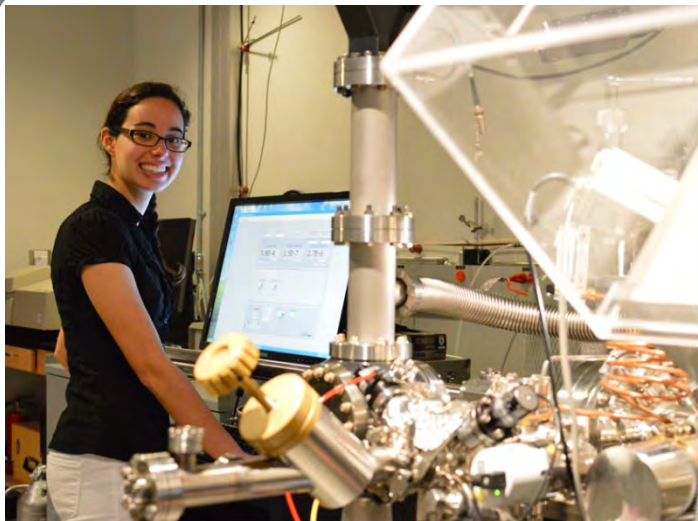
Synthesis by Evaporative Deposition



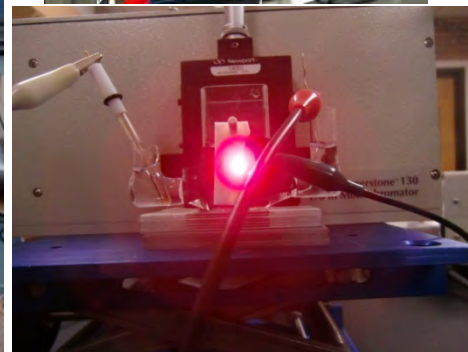
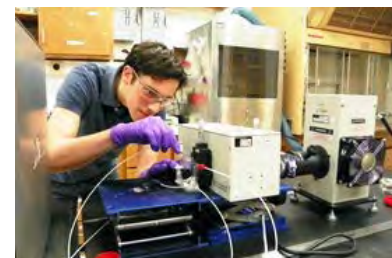


A(nother) day in the labs

Assembling



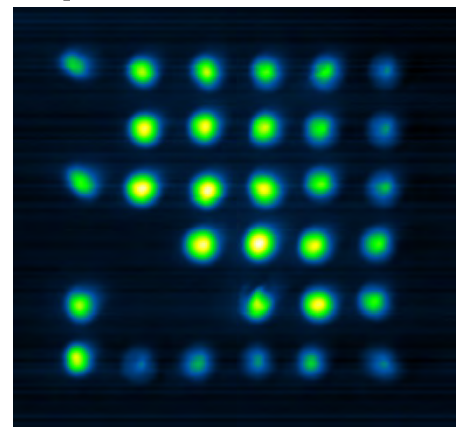
XPS



Rapid Screening



Coin Cell
Testing

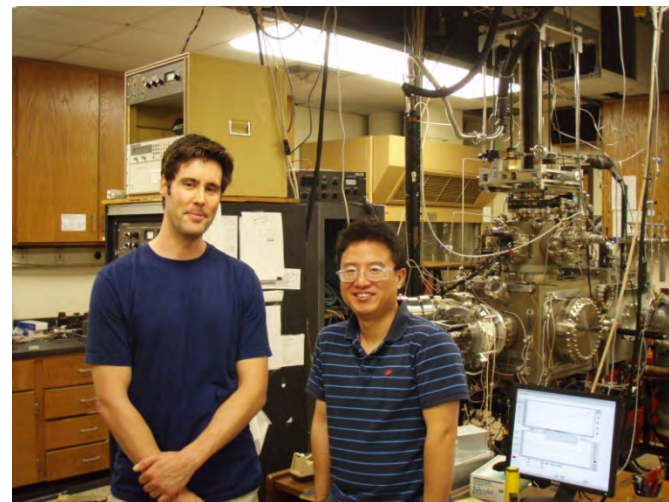
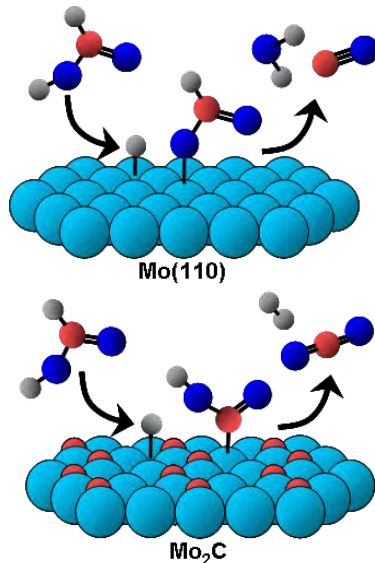
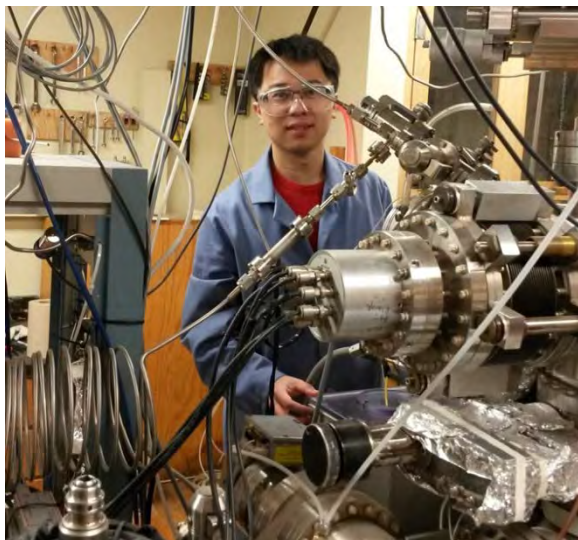


$\text{Cu}_x\text{Bi}_y\text{Ti}_z\text{O}_m$

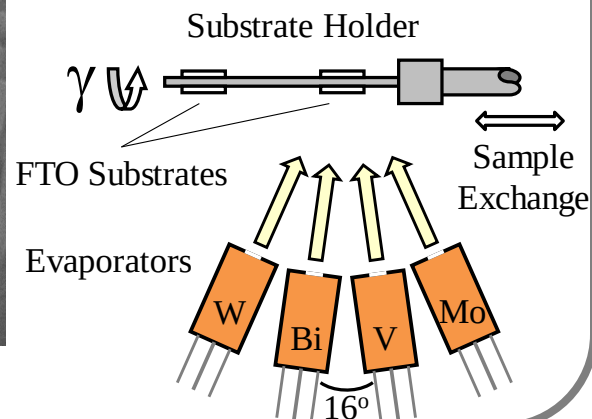
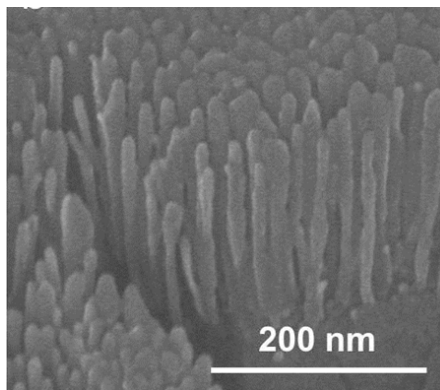


A(nother) day in the labs

Catalysis & Surface Chemistry



Complex Materials Synthesis





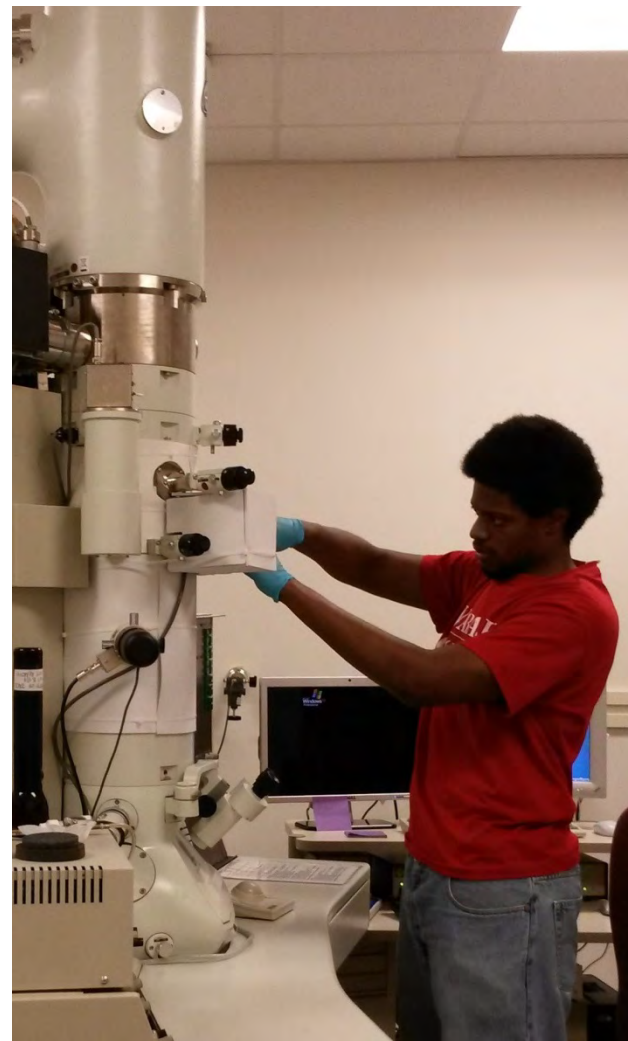
Yet one more day

Li Dendrite Growth Regarding Battery Safety



1000.0μm

Electron Microscopy





Have a Great Visit!!



UT-Austin Turtle Pond (behind the Clock Tower).