



Bridget Rogers

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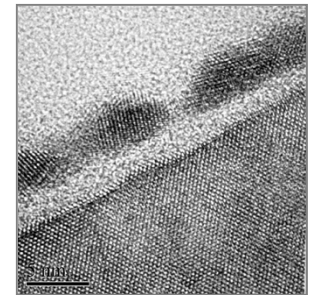
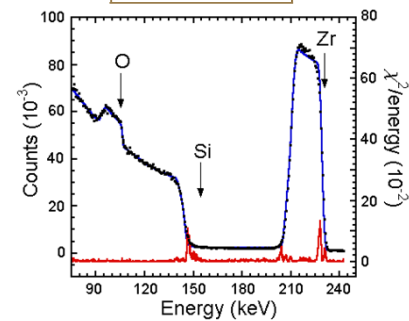
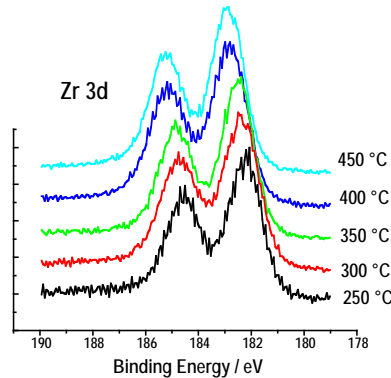
Research Theme: Materials Engineering From Atoms to Applications

Process



CVD (films)
Combustion Synthesis (particles)
SC CO₂ processing (loading catalyst)

Property

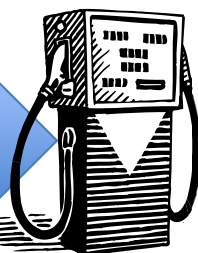


XPS, AES, Ion Beam Backscattering
XRD, Spectroscopic Ellipsometry
SEM, TEM, Scanning probe microscopy

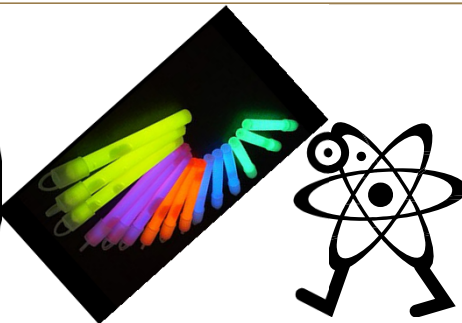
Performance: Applications in Energy, Microelectronics, Aerospace, and Defense



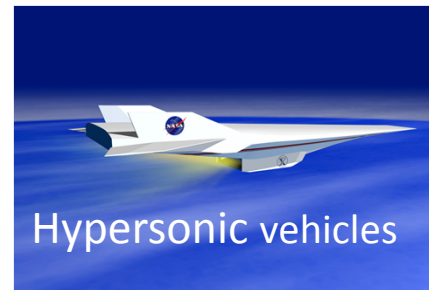
Catalytic process



Biomass/coal/CH₄
to liquid fuels



phosphors for radiation detection



Hypersonic vehicles



Faster CMOS

Outreach: Raising public awareness and appreciation for science and engineering

Panel discussions at Science Museum
Demonstrations in k-12 classrooms

Current event discussions in my courses
Work through local library