Bridget Rogers

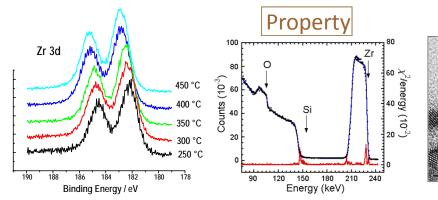
Department of Chemical and Biomolecular Engineering, Vanderbilt University

Research Theme: Materials Engineering From Atoms to Applications

Process



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



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

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







Biomass/coal/CH₄ to liquid fuels

phosphors for radiation detection

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