Victoria Soghomonian Virginia Tech Electrically conducting zeoate frameworks DMR 0943971

Synthesis and electrical characterization of novel materials for electrochemical storage

fundamental electrochemical studies on *single crystals* in the solid-state

potential applications in new concepts for hybrid/blended electrical energy storage







- charge storage measurements
 - capacitors & ultracapacitors
- battery electrodes
 - catalysis

Impact

- solid state chemistry and physics
 - solution chemistry routes

- outreach to middle and high school teachers in Southwest VA
 4 workshops; materials and energy
- undergraduate research experience & for underrepresented minorities
- training in materials synthesis and characterization
- solid state electrochemistry
 structure function relationship
 Outcomes
 multifunctional
 - materials
 - guided synthesis