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TEXAS A&M ENGINEERING

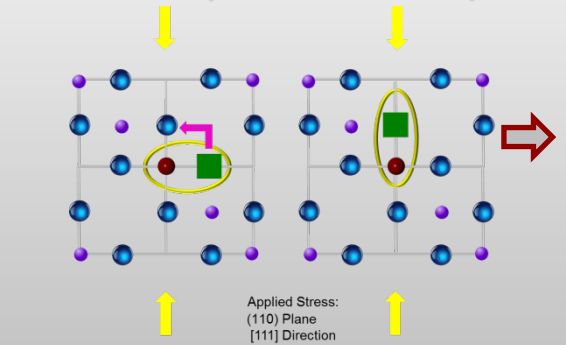
Research Interest:

- Processing of ceramics and ceramic composites for high temperature applications in harsh environments;
- Mechanical and thermal properties of ceramics and ceramic composites at high temperatures ; Anelastic phenomena in ceramics.
- Materials: MAX phases, solid-state ionics and geopolymers.

Research Capabilities:

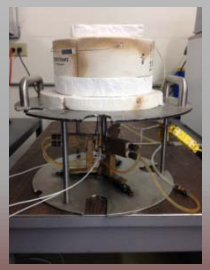
SPS, HIP, Tape Casting, Cold pressing, Powder mixing, Environmental/Vacuum, furnaces (up to 1200-1700°C), MTS high temperature testing machine (up to 1700°C), resonant ultrasound spectroscopy (up to 1300°C), four creep testing frames (up to 1400°C), etc.

CAREER: Effects of Anelastic Relaxation of Defect Complexes on the Mechanical Behavior of Oxide Ceramics (DMR- 1057155)



Elastic /Dielectric Dipole:

$$R'_M + V_o^{\bullet\bullet} = (R_M V_o)^{\bullet}$$



High temperature set-up for Resonant Ultrasound Spectroscopy developed and built at Texas A&M University.