Micro- & Macroethics in STEM Education

Research Topics

• STEM Education (source of CSTS interest)
  – Scientific Writing: Curricula for US & China
  – Macroethics: Key Driver of STEM Curriculum Reform

• Chemistry Research
  – Synergy of experimentation & theory/computation
  – Ferroelectric materials for nonlinear optics
  – Peptide materials for CO2 capture from air
  – Oscillating chemical reactions
  – Layer models of enzyme activity

Key Words re/ STEM Education


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Funding (after 2016)

• NSF, CHE: Biomimetic CO2 Capture from Air
• NSF, MRI: Nonlinear Optical Materials
• ACS, PRF (ND): Polymerization Catalysts
• Carey Bottom Ethics Initiative

Selected STEM Publications

