

## Theodore R. Krause

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### Professional Experience

- Development of reforming and water-gas shift catalysts for fuel processors designed for use with fuel cell systems
- Development of new reaction processes for reforming, water-gas shift, and sulfur removal for fuel processors
- Technology development in support of DOE environmental programs
- Applied research in supercritical extraction; recovery of metals via ion exchange; plasma processing for VOC control; use of silica gels to contain subsurface contamination; radiolytic gas generation by ceramic waste forms for nuclear waste storage; and microbial interactions with uranium and plutonium complexes
- Mechanistic studies of the water-gas shift reaction and methanol synthesis catalyzed by soluble metal oxides, H<sub>2</sub> and CO activation by soluble metal oxides, and cobalt-catalyzed hydroformylation in supercritical fluids

### Professional Society Activities

- American Chemical Society
- American Institute of Chemical Engineers

### Publications

- 1 patent

### Education

- PhD, Chemical Engineering, University of Delaware
- BS, Chemistry/Physics, Ursinus College