

## Theodore R. Krause

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### Professional Experience

- **Present.** Argonne National Laboratory
  - 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 U.S. Department of Energy environmental programs
  - Applied research in:
    - Supercritical extraction,
    - Recovery of metals via ion exchange,
    - Plasma processing for volatile organic compound (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

### Education

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

### Professional Society Activities

- American Chemical Society
- American Institute of Chemical Engineers

### Patent

- 1 patent