

# Inorganic Chemistry

Department of Chemistry  
University of Illinois at Urbana-Champaign

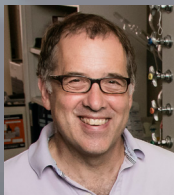
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[chemistry.illinois.edu](http://chemistry.illinois.edu)



## **Alison R. Fout**

Synthesis and characterization of transition metal complexes and their use as catalysts for biological, environmental and energy concerns

[chemistry.illinois.edu/fout](http://chemistry.illinois.edu/fout)



## **Andrew A. Gewirth**

Structure and reactivity of surfaces, materials, and interfaces relevant to catalysis, electrodes, and biology

[chemistry.illinois.edu/agewirth](http://chemistry.illinois.edu/agewirth)



## **Gregory S. Girolami**

Synthesis of transition metal and f-metal complexes and their use in catalysis; as precursors for the chemical vapor deposition of micro- and nanoelectronic devices; in energy applications; and for the reprocessing of nuclear fuel

[chemistry.illinois.edu/ggirolam](http://chemistry.illinois.edu/ggirolam)



## **Damien S. Guironnet**

Development and implementation of organometallic complexes as polymerization and/or depolymerization catalysts

[chemistry.illinois.edu/guironne](http://chemistry.illinois.edu/guironne)



## **Hee-Sun Han**

Design and develop new precursors for high-quality inorganic nanoparticle synthesis; use of inorganic nanoparticles for single molecule imaging and cellular imaging; assembly of nanoparticles

[chemistry.illinois.edu/hshan](http://chemistry.illinois.edu/hshan)

# Inorganic Chemistry

## Other faculty with interests in Inorganic Chemistry

### Scott E. Denmark

Transition-metal and main-group chemistry

### Walter G. Klemperer

Porous inorganic solids, polyoxometalates, platinum chemistry, multinuclear NMR

### Eric Oldfield

Metalloproteins as drug targets

### Thomas B. Rauchfuss (emeritus faculty)

Synthesis and mechanistic studies of catalysis

### Stephen G. Sligar (emeritus faculty)

Nanobiotechnology; drug discovery

### Kenneth S. Suslick (emeritus faculty)

Sonochemistry; sensor arrays

### Wilfred A. van der Donk

Metalloenzyme catalysis

### M. Christina White

Transition-metal mediated reactions for organic synthesis



### Liviu M. Mirica

Synthetic and mechanistic inorganic and organometallic chemistry applied to energy catalysis and oxidative organic transformations; study of the role of transition metal ions in neurodegenerative diseases

[chemistry.illinois.edu/mirica](http://chemistry.illinois.edu/mirica)



### Catherine J. Murphy

Synthesis of inorganic nanoparticles of controlled shape and size; use of inorganic nanoparticles for optical sensing and imaging with biological and environmental applications

[chemistry.illinois.edu/murphycj](http://chemistry.illinois.edu/murphycj)



### Lisa Olshansky

Design, synthesis, and examination of switchable metal complexes for bioinspired solutions in solar energy conversion and multi-electron, multi-proton catalysis

[chemistry.illinois.edu/lolshans](http://chemistry.illinois.edu/lolshans)



### Josh Vura-Weis

Femtosecond X-ray spectroscopy of catalytic reaction intermediates

[chemistry.illinois.edu/vuraweis](http://chemistry.illinois.edu/vuraweis)