

Inorganic Chemistry

Department of Chemistry
University of Illinois Urbana-Champaign



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Majed S. Fataftah

Inorganic and bioinorganic chemistry; synthesis, spectroscopy, and electronic structure; metal-organic frameworks; molecular magnetism; quantum information science



Hee-Sun Han

Development of microfluidics & imaging technologies for systems biology; modeling the ensemble behavior of complex biological systems; imaging-based spatial omics; microfluidics-based high-resolution assays; bottom-up construction of synthetic cells



Anastasia C. Manesis

Bioinspired inorganic chemistry; metalloproteins; multiheme enzymes; enzyme mechanisms



Liviu M. Mirica

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



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



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Inorganic Chemistry

chemistry.illinois.edu

Other faculty with interests in Inorganic Chemistry

Jefferson Chan

Coordination chemistry, metal ion sensing and PET imaging

Eric Oldfield

Metalloproteins as drug targets

Wilfred A. van der Donk

Metalloenzyme catalysis

M. Christina White

Transition-metal-mediated reactions for organic synthesis



Lisa Olshansky

Preparation and study of biomimetic coordination complexes and artificial metalloproteins; organic and inorganic synthesis; chemical and molecular biology; spectroscopic characterization by static and time-resolved methods; applications in catalysis, biosensing, and solar energy conversion



Benjamin Snyder

Synthesis and characterization of porous materials for heterogeneous catalysis and adsorptive separations; inorganic spectroscopy and electronic structure; chemistry of zeolites and metal-organic frameworks



Josh Vura-Weis

Femtosecond X-ray spectroscopy of catalytic reaction intermediates



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