Inorganic Chemistry

Department of Chemistry
University of Illinois Urbana-Champaign

For more information on Inorganic Chemistry faculty, scan →

Majed S. Fataftah

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

Hee-Sun Han

Droplet microfluidics; High throughput imaging; Single virus omics; Spatial omics; Bottom-up consruction of synthetic cells

Anastasia C.Manesis

Bioinspired inorganic chemistry; metalloproteins; multiheme enzymes; microbial copper transfer, enzyme mechanisms

Liviu M. Mirica

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

Catherine J. Murphy

Syntheis 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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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

Interdisciplinary bioinorganic chemistry group focussed on the synthesis, spectroscopy, and application of switchable metal complexes and artificial metalloproteins. Applications include solar energy conversion, photo- and bio-catalysis, and imaging/ biosensing

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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