

WSU CHEMISTRY RESEARCH FACULTY

Dr. Jeffrey Bell

Electrochemical approaches towards addressing problems related to global health and energy equity through developing reliable diagnostics and advancing energy storage and conversion.

Email: jeffrey.g.bell@wsu.edu

Dr. Cliff Berkman

Design, synthesis, and evaluation of pH-responsive targeted therapeutic agents for cancer. Determining the pathogenic role for traceless isopeptide crosslinks as a result of non-canonical phosphorylation in proteins.

Email: cberkman@wsu.edu

Dr. James Brozik

Biophysics, Material Science, Biosensors, Instrument Design and Fabrication. Email: brozik@wsu.edu

Dr. Brian Clowers

Analytical Chemistry with an emphasis on instrument and method development using ion mobility spectrometry and mass spectrometry to probe fundamental and applied challenges.

Email: brian.clowers@wsu.edu

Dr. Xiaofeng Guo

Studying the structures and thermodynamics of f-block ceramics, molten salts, and minerals.

Email: x.guo@wsu.edu

Dr. K.W. Hipps

Scanning tunneling microscopy and spectroscopy, Atomic Force microscopy, surface chemistry, cooperativity at surfaces, self-assembly of films. Email: hipps@wsu.edu

Dr. Kevin Kittilstved

Pushing the frontiers of energy and quantum tech through the design of novel nanoscale and solid-state materials. Students apply their knowledge to address research problems at the crossroads of inorganic chemistry, condensed matter physics, and materials science.

Email: kevin.kittilstved@wsu.edu

Dr. Alexander Li

Macromolecular design and engineering, advanced materials synthesis, bio-functionality and nanotechnology integration, self-assembly and supramolecular systems, surface chemistry and catalysis, and metal oxide thin films.

Email: dequan@wsu.edu

Dr. Ursula Mazur

Physical chemistry at the nanometer scale: self-assembly and reaction dynamics at interfaces using experiment and theory for molecular recognition, sensing, and catalysis.

Email: umazur@wsu.edu

Dr. Ivan Popov

Our research applies computational chemistry to elucidate chemical bonding, redox properties, and reactivity in f-element systems, energy storage materials, and exotic atomic clusters, enabling theory-guided design of advanced functional materials through close experiment-theory collaboration. Email: ivan.popov@wsu.edu

Dr. Anjali Sharma

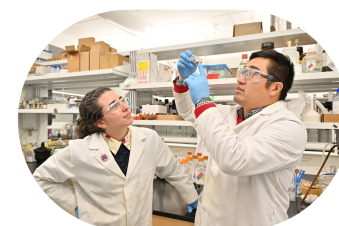
Developing rationally designed, smart, clinically translatable novel nanotechnologies for target-specific drug/gene delivery and imaging applications to help diagnose and treat unmet medical problems. Email: anjali.sharma@wsu.edu

Dr. Choong-Shik Yoo

Investigation of simple quantum solids using advanced light sources such as synchrotron X-rays and X-ray Free Electron Lasers; Extreme chemistry of dense solids in the Earth's and Jovian planets; Synthesis of novel high-energy density solids. Email: csyoo@wsu.edu

Dr. Jack (Qiang) Zhang

Inorganic and materials—such as MOFs and mixed oxides—for catalysis, sensing, and nuclear applications. Students gain hands-on experience in materials synthesis, structural characterization, and catalytic testing, preparing them for careers in research, energy, and environmental technology. Email: q.zhang@wsu.edu



Mentoring the next generation of innovative scientists and leaders