Department of Chemistry  
San Jose State University  
Faculty Research Interests

**David Brook, Ph.D., Professor:** Organic Chemistry, Inorganic Chemistry, synthesis and coordination chemistry of stable free radicals, magnetochemistry, self assembly and supramolecular chemistry, molecular devices.  
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**Lionel Cheruzel, Ph.D., Associate Professor:** Bioinorganic Chemistry, Inorganic Chemistry, Biochemistry. Development of hybrid enzymes as biocatalysts for hydroxylation of organic substrates using light and water. Molecular imprinted polymers.  
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**Marc d'Alarcao, Ph.D., Professor:** Chemical Biology, Organic Chemistry, Biochemistry. Synthesis and biological evaluation of carbohydrates. Medicinal chemistry.  
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http://www.chemistry.sjsu.edu/mdalarcao/dAlarcao_group_site/Home.html

**Daryl Eggers, Ph.D., Professor:** Biochemistry, Biophysical Chemistry. Crowding and hydration effects on macromolecular structure.  
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**Resa Kelly, Ph.D., Associate Professor:** Chemical Education: how animations of microscopic chemistry concepts affect student learning and influence the correction and creation of misconceptions.  
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**Brooke Lustig, Ph.D., Adjunct Professor:** Biophysical Chemistry: computation/theoretical methods to characterize entropy and related effects in proteins and RNA; drug design that includes potential anti-HIV agents.  
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**Laura Miller Conrad, Ph.D., Assistant Professor:** Chemical Biology, Organic Chemistry, Biochemistry. Synthesis and investigation of anti-quorum sensing and anti-virulence compounds in bacteria.  
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**Gilles Muller, Ph.D., Professor:** Inorganic Chemistry, Lanthanides, Complexes, Circularly Polarized Luminescence, Chirality, Thermodynamics and Spectroscopy.  
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**Roy Okuda, Ph.D., Professor:** Organic Chemistry, Bio-Organic Chemistry of enzymes, marine natural products.  
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**Joseph Pesek, Ph.D., Professor and Maria Matyska-Pesek, Ph.D., Adjunct Professor:**  
Analytical Chemistry, separation methods including HPLC and HPLC/MS with emphasis on bioanalytical and pharmaceutical applications. Development of new separation materials.  
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**Alberto A. Rascón, Jr., Ph.D. Assistant Professor:**  
Biochemistry, Bacterial Protein Expression, Protein/Enzyme Purification and Isolation Techniques, Mosquito Midgut Proteases, Proteolytic Enzymes, Inhibitors, and Enzyme Kinetics. Office: DH 612, 408-924-4969, alberto.rascon@sjsu.edu

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**Daniel Straus., Ph.D., Professor:**  
Organometallic Chemistry: synthesis and reactivity of organotransition metal complexes.  
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**Roger Terrill, Ph.D., Associate Professor:**  
Analytical Chemistry, Surface, Interfacial, Thin Film Chemistry.  
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**Annalise Van Wyngarden, Ph.D., Associate Professor:**  
Atmospheric Chemistry: Physical chemistry and analytical chemistry are used to determine the climate effects of atmospheric particles - specifically optical properties and cloud-forming properties.  
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**Abraham Wolcott, Ph.D. Assistant Professor:**  
Physical chemistry, nanomaterials and surface science. Study of the fundamental surface structure of semiconductor and metallic nanostructures to understand and engineer their properties for applied biolabeling strategies and alternative energy production. Special focus is given to nanoscale diamond and fluorescent nitrogen vacancy center for biosensing.  
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