

## Lei Liu

Masters Student in Management Science and Engineering, admitted Autumn 2020

### Publications

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#### PUBLICATIONS

- **Nuclear Resonance Vibrational Spectroscopy Definition of O-2 Intermediates in an Extradial Dioxygenase: Correlation to Crystallography and Reactivity** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*  
Sutherlin, K. D., Wasada-Tsutsui, Y., Mbughuni, M. M., Rogers, M. S., Park, K., Liu, L., Kwak, Y., Srncac, M., Bottger, L. H., Frenette, M., Yoda, Y., Kobayashi, Y., Kurokuzu, et al  
2018; 140 (48): 16495–513
- **Nuclear Resonance Vibrational Spectroscopy Definition of O2 Intermediates in an Extradial Dioxygenase: Correlation to Crystallography and Reactivity.** *Journal of the American Chemical Society*  
Sutherlin, K. D., Wasada-Tsutsui, Y., Mbughuni, M. M., Rogers, M. S., Park, K., Liu, L. V., Kwak, Y., Srncac, M., Bottger, L. H., Frenette, M., Yoda, Y., Kobayashi, Y., Kurokuzu, et al  
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- **NRVS Studies of the Peroxide Shunt Intermediate in a Rieske Dioxygenase and Its Relation to the Native Fe-II O-2 Reaction** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*  
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- **Geometric and Electronic Structure of the Mn(IV)Fe(III) Cofactor in Class Ic Ribonucleotide Reductase: Correlation to the Class Ia Binuclear Non-Heme Iron Enzyme.** *Journal of the American Chemical Society*  
Kwak, Y., Jiang, W., Dassama, L. M., Park, K., Bell, C. B., Liu, L. V., Wong, S. D., Saito, M., Kobayashi, Y., Kitao, S., Seto, M., Yoda, Y., Alp, et al  
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- **Geometric and Electronic Structure Contributions to Function in Non-heme Iron Enzymes** *ACCOUNTS OF CHEMICAL RESEARCH*  
Solomon, E. I., Light, K. M., Liu, L. V., Srncac, M., Wong, S. D.  
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- **Nuclear resonance vibrational spectroscopic and computational study of high-valent diiron complexes relevant to enzyme intermediates.** *Proceedings of the National Academy of Sciences of the United States of America*  
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- **Variable-temperature variable-field magnetic circular dichroism (VTVH MCD) and nuclear resonance vibrational spectroscopy (NRVS) studies on Fe-IV=O intermediates: Electronic and geometric structural insight into reactivity** *241st National Meeting and Exposition of the American-Chemical-Society (ACS)*  
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