

Curriculum Vitae

Jianfeng Jiang

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Contact Info

Assistant Professor
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Education

Institution	Degree	Dates
SUNY Stony Brook	Ph.D.	Sept. 1997 – May 2002
Peking University	B.S.	Sept. 1992 – July 1997

Employment Record

Yeshiva University	Assistant Professor	Sept. 2005 – present
Duke University	Postdoctoral Associate (Katherine J. Franz)	Oct. 2004 – August 2005
Harvard University	Postdoctoral Associate (Richard H. Holm)	June 2002 – August 2004
SUNY Stony Brook	Research Assistant (Stephen A. Koch)	Sept. 1997 – May 2002

Research Grants

Petroleum Research Fund (June 1st 2009 – August 31st, 2011) \$50,000/2 years
(#49424-UNI)
"Rational Design and Synthesis of Structural Analog Complexes of the Active Site of Ni-Fe Hydrogenases"

Award and Honors

1. President's Award to Distinguished Doctoral Students for 2002
SUNY Stony Brook
2. Distinguished Doctoral Student Award for the academic year 2001-2002
SUNY Stony Brook
3. Sigma Xi Award for Excellence in Research, 2002
4. Motorola Fellowship, 1995

Publications

18. Aryeh Stock, Ofir Azran, Benjamin Garden, Jonathan Solaimanzadeh, Wenfeng Lo and *Jianfeng Jiang, "Synthesis of *fac*-[Fe^{II}(CN)(CO)₃I₂]⁻ and Chemistry of the *fac*-[Fe^{II}(CN)_x(CO)₃I_(3-x)]⁻ Series (x = 1 – 3)" *Inorganic Chemistry Communication*, **2012**, 18, 105 – 109.
<http://dx.doi.org/10.1016/j.inoche.2012.01.028>
17. B. Schwartz, O. Azran, J. Solaimanzadeh, J. Fluss, W. Lo and *J. Jiang, "Kinetics Study of

- the Substitution Reaction of *fac*-[Fe^{II}(CN)₂(CO)₃]⁻ with PPh₃” *Inorganica Chimica Acta* **2011**, 370, 243 – 247. <http://dx.doi.org/10.1016/j.ica.2011.01.069>
16. A. Peleg, W. Lo and *J. Jiang, “A Trinuclear Fe-Fe-Ni Complex Formed by Ligand Reshuffling” *Acta Cryst. E.* **2011**, E67, m766. <http://dx.doi.org/10.1107/S1600536811017892>
15. *R. Viswanathan , A. M. Etra and J. Jiang and. Effect of Solvent Environment on the CO Band Position in the Infrared Spectrum of [Fe(CN)₄(CO)₂]²⁻. *Inorganica Chimia Acta.*, **2009**, (362), 2728 – 2734. <http://dx.doi.org/10.1016/j.ica.2008.12.015>
14. *Jianfeng Jiang, Noam D. Fine, Myriam Maruani, Wenfeng Lo and Peter Muller, Synthesis and structure of iron-tricarbonyl-trihalide, *Inorganic Chemistry Communication*, **2009**, 12(6), 527 – 529. <http://dx.doi.org/10.1016/j.inoche.2009.04.006>
13. *Jianfeng Jiang, Myriam Maruani, Jonathan Solaimanzadeh, Wenfeng Lo, Stephen A Koch and Michelle Millar, Synthesis and Structure of Analogs for the Ni-Fe Site in Hydrogenase Enzymes, *Inorganic Chemistry*, **2009**, 48, 6359 – 6361. <http://pubs.acs.org/doi/pdf/10.1021/ic900929u>
12. *Jianfeng Jiang, Alexander Raytman, Wenfeng Lo, Arron M. Etra and Jason Chouake, Synthesis and Solvent Dependency Study of an Iron Complex with Mono-Cyanide and Mono-Carbonyl Coordination. *Inorganica Chimia Acta.* **2009**, (362), 295 – 298. <http://dx.doi.org/10.1016/j.ica.2008.03.082>
11. Jianfeng Jiang, Istvan A. Nadas, M. Alison Kim and *Katherine J. Franz, A Mets Motif Peptide in Copper Transport Proteins Selectively Binds Cu(I) with Methionine-only Coordination, *Inorg. Chem.*, **2005**, 44, 9787 – 9794 <http://pubs.acs.org/doi/pdf/10.1021/ic051180m>
10. P. Venkateswara Pao, Sumit Bhaduri, Jianfeng Jiang, Daewon, Hong and *R. H. Holm, On [Fe₄S₄]²⁺-(μ₂-SR)-M^{II} Bridge Formation in the Synthesis of an A-Cluster Analogue of Carbon Monoxide Dehydrogenase/Acetylcoenzyme A Synthase, *J. Am. Chem. Soc.*, **2005**, 127, 1933 – 1945. <http://pubs.acs.org/doi/pdf/10.1021/ja040222n>
9. Jianfeng Jiang and *R. H. Holm, Reaction Systems Related to Dissimilatory Nitrate Reductase: Nitrate Reduction Mediated by Bis(dithiolene)tungsten Complexes, *Inorg. Chem.*, **2005**, 44, 1068 – 1072. <http://pubs.acs.org/doi/pdf/10.1021/ic040109y>
8. P. Venkateswara Pao, Sumit Bhaduri, Jianfeng Jiang and *R. H. Holm, Sulfur Bridging Interactions of Cis-planar Ni^{II}-N₂S₂ coordination unit with Nickel(II), Copper(I,II), Zinc(II) and Mercury(II): A Library of Bridging Mode, Including Ni^{II}(μ₂-SR)₂M^{I,II} Rhombs. *Inorg. Chem.*, **2004**, 43, 5833 – 5849. <http://pubs.acs.org/doi/pdf/10.1021/ic040055s>
7. Jianfeng Jiang and *R. H. Holm, An Expanded set of Functional Groups in Bis(dithiolene)tungsten(IV,VI) Complexes Related to the Active Sites of Tungstoenzymes, including W^{IV}-SR and W^{VI}-O(SR), *Inorg. Chem.*, **2004**, 43, 1302 – 1310. <http://pubs.acs.org/doi/pdf/10.1021/ic030301k>
6. Jianfeng Jiang and *Stephen A. Koch, Two-dimensional Materials Based on *trans*-[Fe^{II}(CN)₄(CO)₂]²⁻ Building Blocks; First Structural Evidence for a Hydrated Metal Carbonyl Ligation. *Chem. Commun.*, **2002**, 16, 1724 – 1725. <http://dx.doi.org/10.1039/B200337F>
5. Jianfeng Jiang and *Stephen A. Koch, *fac*-[Fe^{II}(CN)₃(CO)₃]⁻ and *cis*-[Fe^{II}(CN)₄(CO)₂]²⁻: New Members of the Class of [Fe^{II}(CN)_x(CO)_y] Compounds. *Inorg. Chem.*, **2002**, 41, 158 – 160. <http://pubs.acs.org/doi/pdf/10.1021/ic015604y>
4. Jianfeng Jiang, Andrew Acunzo and *Stephen A. Koch, Chemistry of [Fe^{II}(CN)₅(CO)]³⁻ New Observations for a 19th Century Compound. *J. Am. Chem. Soc.*, **2001**, 123, 12109 – 12110. <http://pubs.acs.org/doi/pdf/10.1021/ja016434r>
3. Jianfeng Jiang and *Stephen A. Koch, *trans*-[Fe(CN)₄(CO)₂]²⁻, A 21st century [Fe(CN)(CO)] Compound. *Angew. Chem. Int. Ed.* **2001**, 40, 2629 – 2631. [http://onlinelibrary.wiley.com/doi/10.1002/1521-3773\(20010716\)40:14%3C2629::AIDANIE2629%3E3.0.CO;2-Y/pdf](http://onlinelibrary.wiley.com/doi/10.1002/1521-3773(20010716)40:14%3C2629::AIDANIE2629%3E3.0.CO;2-Y/pdf)

2. *Liangbing Gan, Jianfeng Jiang, Wen Zhang, Yang Su, Yaru Shi, Chunhui Huang, Jinqi Pan, Mujian Lue and Yi Wu, Synthesis of Pyrrolidine Ring-Fused Fullerene Multicarboxylates by Photoreaction. *J. Org. Chem.* **1998**, 63, 4240 – 4248.

<http://pubs.acs.org/doi/pdf/10.1021/jo971990i>

1. Wen Zhang, Yang Su, *Liangbing Gan, Jianfeng Jiang and Chunhui Huang, Photolysis of C60 with Cyclic Amino Acids: Preparation of Dihydrofullerenes by Decarboxylation. *Chem. Lett.* **1997**, 10, 1007 – 1008. <http://dx.doi.org/10.1246/cl.1997.1007>

Invited Lectures

“Synthetic approach to the active sites of hydrogenases” 22nd Boston Regional Inorganic Colloquium (BRIC), Brandeis University (June 12th, 2010)

“Synthesis of the structural analog complexes of Ni-Fe hydrogenases active site” Pace University (April, 2009)

Conference Presentations

“Reactivity of *fac*-KFe(CN)₂(CO)₃I” 240th American Chemical Society National Meeting, August, 2010, Boston, MA

“Synthetic Approach to the Structural Analog Complexes of Hydrogenases Active Site” 239th American Chemical Society National Meeting, March 2010, San Francisco, CA

“Synthesis and Structure of Analogs for the Ni-Fe Site in Hydrogenase Enzymes” Gordon Research Conference, June 2009, Biddeford, ME

Service to Professions

Reviewer for *Inorganic Chemistry*

Reviewer for *Organometallics*

Reviewer for Grant Proposal submitted to the Nation Science Foundation

University Service

Interviewer for Yeshiva College Honors program, 2008

Participant in the Yeshiva College Curriculum Review

Member of the “Quantitative Experimental Method” course for General Education

Departmental Service

Joined proposal to purchase departmental NMR spectrometer (not funded)

Member, faculty search committee, 2009 – 2010

Member, faculty search committee, 2007 – 2008

Chemistry major advisor, 2007 – present

Honor thesis advisor 2011 - present

Courses Developed

Chemistry of Metals in Biology, Fall 2006

Intro to Chemical Research, Spring 2010

Course Taught

Fall 2005 General Chemistry I

Spring 2006 Chemical Analysis

General Chemistry II

Fall 2006 Chemistry of Metals in Biology

Honors General Chemistry I Lab

Spring 2007 Chemical Analysis

Fall 2007 Chemical Analysis

Spring 2008	Chemistry of Metals in Biology Chemical Analysis
Summer 2008	General Chemistry II
Fall 2008	Chemical Analysis Independent Study
Spring 2009	Chemical Analysis Honors General Chemistry II Guided Study/Research
Fall 2009	Guided Study/Research
Spring 2010	Chemical Analysis Intro to Chemical Research Research in Chemistry
Fall 2010	Chemical Analysis Honors General Chemistry I Lab Research in Chemistry
Spring 2011	Chemistry of Metals in Biology Research in Chemistry
Fall 2011	Chemical Analysis Research in Chemistry
Spring 2012	Chemistry of Metals in Biology Advance Chemistry Seminar Intro to Chemistry Research Research in Chemistry