

Shiliang Tian

Postdoctoral Research Fellow, Chemistry

Bio

PROFESSIONAL EDUCATION

- Master of Science, Peking University (2010)
- Doctor of Philosophy, University of Illinois at Urbana Champaign (2016)
- Bachelor of Science, Nanjing University (2005)

STANFORD ADVISORS

- Edward Solomon, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Reversible S-nitrosylation in an engineered azurin** *NATURE CHEMISTRY*
Tian, S., Liu, J., Cowley, R. E., Hosseinzadeh, P., Marshall, N. M., Yu, Y., Robinson, H., Nilges, M. J., Blackburn, N. J., Solomon, E. I., Lu, Y.
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- **A Purple Cupredoxin from *Nitrosopumilus maritimus* Containing a Mononuclear Type 1 Copper Center with an Open Binding Site.** *Journal of the American Chemical Society*
Hosseinzadeh, P., Tian, S., Marshall, N. M., Hemp, J., Mullen, T., Nilges, M. J., Gao, Y. G., Robinson, H., Stahl, D. A., Gennis, R. B., Lu, Y.
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- **Photocaged DNazymes as a General Method for Sensing Metal Ions in Living Cells** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*
Hwang, K., Wu, P., Kim, T., Lei, L., Tian, S., Wang, Y., Lu, Y.
2014; 53 (50): 13798-13802
- **Redesigning the blue copper azurin into a redox-active mononuclear nonheme iron protein: preparation and study of Fe(II)-M121E azurin.** *Journal of the American Chemical Society*
Liu, J., Meier, K. K., Tian, S., Zhang, J., Guo, H., Schulz, C. E., Robinson, H., Nilges, M. J., Münck, E., Lu, Y.
2014; 136 (35): 12337-12344
- **Metalloproteins Containing Cytochrome, Iron-Sulfur, or Copper Redox Centers** *CHEMICAL REVIEWS*
Liu, J., Chakraborty, S., Hosseinzadeh, P., Yu, Y., Tian, S., Petrik, I., Bhagi, A., Lu, Y.
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- **Copper-sulfenate complex from oxidation of a cavity mutant of *Pseudomonas aeruginosa* azurin** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Sieracki, N. A., Tian, S., Hadt, R. G., Zhang, J., Woertink, J. S., Nilges, M. J., Sun, F., Solomon, E. I., Lu, Y.
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- **Electrocatalytic and photocatalytic hydrogen production in aqueous solution by a molecular cobalt complex.** *Angewandte Chemie (International ed. in English)*
Singh, W. M., Baine, T., Kudo, S., Tian, S., Ma, X. A., Zhou, H., DeYonker, N. J., Pham, T. C., Bollinger, J. C., Baker, D. L., Yan, B., Webster, C. E., Zhao, et al
2012; 51 (24): 5941-5944
- **Roles of glutamates and metal ions in a rationally designed nitric oxide reductase based on myoglobin** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

Lin, Y., Yeung, N., Gao, Y., Miner, K. D., Tian, S., Robinson, H., Lu, Y.

2010; 107 (19): 8581-8586

● **Lysozyme-stabilized gold fluorescent cluster: Synthesis and application as Hg²⁺ sensor** *ANALYST*

Wei, H., Wang, Z., Yang, L., Tian, S., Hou, C., Lu, Y.

2010; 135 (6): 1406-1410

● **Multiple C-H activations to construct biologically active molecules in a process completely free of organohalogen and organometallic components** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*

Li, B., Tian, S., Fang, Z., Shi, Z.

2008; 47 (6): 1115-1118