

# CV-Weichao Sun

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## Information:

Department of Chemistry and Chemical Engineering,  
Chongqing University (985&211 project), Chongqing, P. R. China

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**Date of Birth:** Oct 10, 1989

**Gender:** Male

## Education:

2013-2016, Master of Science in Chemistry, Chongqing University, Advisor: Prof. Xiaohua Chen

2008-2012, Bachelor of Engineering in Material Chemistry, Chongqing University

## Awards:

Excellent Graduate Students, Chongqing University, 2014

Excellent League Members, Chongqing University, 2014

First-class Academic Scholarship, 2014&2015

Outstanding Master Graduates Awards, Chongqing University, 2015

## Research Experience:

relay stations for electron transfer in proteins, electron and proton transfer, mechanism of enzyme catalytic reaction, enzyme biofuel cell

## Language:

IELTS Overall 6.0: Listening5.5, Reading7.5, Writing5.5, Speaking5.0

## Projects:

### Project Director:

1. Chongqing Graduate Student Research Innovation Project (CYS14017): Electron Relay Stations in Long-Range Electron Transfer of Proteins.

### Project Participant:

1. National Natural Science Foundation of China:
  - (1)21573026: The Theoretical Studies of MauG Modulating Long-Range Six-Electron Transfer during Generating Cofactor of Methylamine Dehydrogenase
  - (2)21273291: The Studies of Electron Transfer in the Enzyme Electrodes of Enzymatic Biofuel Cell
  - (3)21003162: The Studies of Electron Transfer Mechanisms of the Long-Range Electron Transfer Process in the Class I Ribonucleotide Reductase
2. Fundamental Research Funds for the Central Universities (CDJZR14 22 55 01, CQDXWL-2012-033)

## Activities:

1. The 12th National Conference of Quantum Chemistry, Taiyuan, China, June 2014  
Poster Presentation
2. The 15th International Congress of Quantum Chemistry, Beijing, China, June 2015  
Poster Presentation

## Publications:

1. **Sun, W.**; Ren, H.; Tao, Y.; Xiao, D.; Qin, X.; Deng, L.; Shao, M.; Gao, J.; Chen, X., Two Aromatic Rings Coupled a Sulfur-Containing Group to Favor Protein Electron Transfer by Instantaneous Formations of  $\pi:S:\pi\leftrightarrow\pi:S:\pi$  or  $\pi:S:\pi:S\leftrightarrow\pi:S:\pi$  Five-Electron Bindings. *J. Phys. Chem. C* **2015**, *119* (17), 9149-9158.
2. **Sun, W.**; Shao, M.; Ren, H.; Xiao, D.; Qin, X.; Deng, L.; Chen, X.; Gao, J., A New Type of Electron Relay Station in Proteins: Three-Piece  $S:\Pi:S\leftrightarrow S:\Pi:S$  Resonance Structure. *J. Phys. Chem. C* **2015**, *119* (13), 6998-7005.
3. **Sun, W.**; Dai, H.; Tao, Y.; Xiao, D.; Zhang, Y.; Wei, Z.; Chen, X., Potent Relay Stations for Electron Transfer in Proteins:  $\pi:S:\pi$  Three-Electron Bonds. *J. Phys. Chem. C* **2013**, *117*, (36), 18325-18333.
4. Xiao, D.; **Sun, W.**; Dai, H.; Zhang, Y.; Qin, X.; Li, L.; Wei, Z.; Chen, X., Influence of Charge States on the  $\pi-\pi$  Interactions of Aromatic Side Chains with Surface of Graphene Sheet and Single-Walled Carbon Nanotubes in Bioelectrodes. *J. Phys. Chem. C* **2014**, *118*, (35), 20694-20701.
5. Chen, X.; Ma, G.; **Sun, W.**; Dai, H.; Xiao, D.; Zhang, Y.; Qin, X.; Liu, Y.; Bu, Y., Water Promoting Electron Hole Transport between Tyrosine and Cysteine in Proteins via a Special Mechanism: Double Proton Coupled Electron Transfer. *J. Am. Chem. Soc.* **2014**, *136*, (12), 4515-4524.
6. Chen, X.; Tao, Y.; Li,.; Dai, H.; **Sun, W.**; Huang, X.; Wei, Z., Aromatic Residues Regulating Electron Relay Ability of S-Containing Amino Acids by Formations of  $S:S:\pi$  Multicenter Three-Electron Bonds in Proteins. *J. Phys. Chem. C* **2012**, *116*, (37), 19682-19688.