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职称/职务：讲师/硕士生导师

专业：物理化学

研究方向：理论与计算化学

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## 个人经历

### 教育经历：

2008.9-2012.6 学士 信阳师范学院 化学化工学院 化学

2012.9-2017.6 博士 北京师范大学 化学学院 物理化学 导师：方维海教授

### 工作简历：

2017.6-至今 信阳师范学院化学化工学院 讲师

## 研究领域与兴趣

1. 激发态电子结构计算
2. 光化学反应机理的 QM/MM 研究

## 主讲课程

本科生：《结构化学》、《物理化学实验》

## 主持科研项目

1. 国家自然科学基金：溶液中防晒霜分子体系光物理和光化学机理的 QM/MM 理论研究，21803050，25 万，2019.1-2021.12，主持

## 代表性研究成果

### 期刊论文：

1. **Xue-Ping Chang\***, Teng-Shuo Zhang, Ganglong Cui, Theoretical Studies on the Excited-State Decay Mechanism of Homomenthyl Salicylate in a Gas Phase and an Acetonitrile Solution, J. Phys. Chem. A, **2022**, 126: 16-28.
2. **Xue-Ping Chang\***, Teng-Shuo Zhang, Ye-Guang Fang, Ganglong Cui, Quantum Mechanics/Molecular Mechanics Studies on the Photophysical Mechanism of Methyl Salicylate, J.

- Phys. Chem. A, **2021**, 125: 1880-1891.
3. **Xue-Ping Chang\***, Ye-Guang Fang, Ganglong Cui, QM/MM Studies on the Photophysical Mechanism of a Truncated Octocrylene Model, *J. Phys. Chem. A*, **2019**, 123: 8823-8831.
  4. Ye-Guang Fang, Chun-Xiang Li, **Xue-Ping Chang\***, Ganglong Cui,\* Photophysics of a UV-B Filter 4-Methylbenzylidene Camphor: Intersystem Crossing Plays an Important Role, *ChemPhysChem* **2018**, 19: 744-752.
  5. **Xue-Ping Chang**, Yuan-Jun Gao, Wei-Hai Fang, Ganglong Cui\*, Walter Thiel\*, Quantum Mechanics/Molecular Mechanics Study on the Photoreactions of Dark- and Light-Adapted States of a Blue-Light YtvA LOV Photoreceptor, *Angew. Chem. Int. Ed.* **2017**, 56: 9341-9345.
  6. Heyang Lin#, **Xueping Chang#**, Dongpeng Yan\*, Wei-Hai Fang, Ganglong Cui\*, Tuning excited-state-intramolecular-protontransfer (ESIPT) process and emission by cocrystal formation: a combined experimental and theoretical study, *Chem. Sci.*, **2017**, 8: 2086-2090.
  7. **Xue-Ping Chang**, Pin Xiao, Juan Han, Wei-Hai Fang, Ganglong Cui\*, A theoretical study of the light-induced cross-linking reaction of 5-fluoro-4-thiouridine with thymine, *Phys. Chem. Chem. Phys.*, **2017**, 19: 13524-13533.
  8. **Xue-Ping Chang**, Yiyi Zheng, Ganglong Cui\*, Wei-Hai Fang, Walter Thiel\*, Photocycloaddition reaction of atropisomeric maleimides: mechanism and selectivity, *Phys. Chem. Chem. Phys.*, **2016**, 18: 24713-24721.
  9. **Xue-Ping Chang**, Xiao-Ying Xie, Shi-Yun Lin, Ganglong Cui\*, QM/MM Study on Mechanistic Photophysics of Alloxazine Chromophore in Aqueous Solution, *J. Phys. Chem. A* **2016**, 120: 6129-6136.
  10. **Xue-Ping Chang**, Chun-Xiang Li, Bin-Bin Xie, Ganglong Cui\*, Photoprotection Mechanism of p- Methoxy Methylcinnamate: A CASPT2 Study, *J. Phys. Chem. A* **2015**, 119: 11488-11497.
  11. **Xue-Ping Chang**, Ganglong Cui\*, Wei-Hai Fang, Walter Thiel\*, Mechanism for the Nonadiabatic Photooxidation of Benzene to Phenol: Orientation-Dependent Proton-Coupled Electron Transfer, *ChemPhysChem* **2015**, 16: 933-937.
  12. **Xue-Ping Chang**, Qiu Fang\*, Ganglong Cui\*, Mechanistic photodecarboxylation of pyruvic acid: Excited-state proton transfer and three-state intersection, *J. Chem. Phys.* **2014**, 141, 154311.

## 奖励及荣誉

主持国家自然科学基金 1 项，入选南湖学者奖励计划 B 类人才，近年来已在 *Angewandte Chemie International Edition*、*Chemical Science*、*Physical Chemistry Chemical Physics*、*The Journal of Physical Chemistry A* 等国际知名化学期刊杂志上发表学术论文 20 余篇。

## 个人主页