

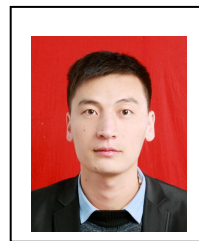
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专 业：有机化学

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简 介：马献涛，男，1986 年生，博士，教授，硕士生导师，荣获河南省高校科技创新人才、河南省高校青年骨干教师、河南省优秀教学标兵、信阳市学术技术带头人、信阳市优秀青年科技专家、信阳市青年科技奖、第五届校长教学质量奖、校优秀硕士学位论文指导教师等荣誉称号与奖励，入选校南湖学者奖励计划 B 类、A 类人才。

个人经历

教育经历：

2005.9-2009.6 学士 河南师范大学 化学与环境科学学院 化学

2009.9-2014.6 博士 中国科学技术大学 化学与材料科学学院 有机化学

工作简历：

2014.8-2014.12 中国石油大连润滑油研发中心 研发工程师

2015.5-2017.5 深圳大学-新加坡国立大学二维材料国际联合实验室 博士后

2017.5-2019.12 信阳师范大学化学化工学院 讲师

2019.12-2025.12 信阳师范大学化学化工学院 副教授

2025.12-至今 信阳师范大学化学化工学院教授

研究领域与兴趣

1. 绿色有机合成
2. 光氧化还原合成
3. 教学创新实验开发

主讲课程

本科生：《有机化学》、《有机化学实验》

研究生：《高等有机化学》、《有机波谱化学》

主持科研项目

1. 国家自然科学基金：脂肪醇的催化取代及在碳-杂键绿色构建中的应用, 30 万, 2022.1-2024.12, 主持
2. 河南省科技创新人才项目：基于脱水酯化-重排策略的醇取代反应研究, 30 万, 2025.1-2027.12, 主持
3. 河南省科技攻关：醇基生物质资源的绿色转化及在烯丙基硫醚高效合成中的应用, 10 万, 2019.1-2021.12, 主持

4. 中国博士后基金面上项目：过渡金属催化下烷基胺的偶联反应研究, 5 万, 2016.5-2017.5, 主持

主持教研项目

1. 国家一流本科课程：有机化学, 2025, 主持
2. 河南省一流本科课程：有机化学, 2022, 主持
3. 河南省研究性教学示范课程：有机化学实验, 2023, 主持
4. 河南省高等教育教学改革研究与实践项目：基于“学科竞赛+”的化学化工类创新型人才培养机制研究, 2024.1-2025.12, 主持

代表性研究成果

期刊论文：

1. Shangyuan Li, Xiaoyu Yan, Xinyu Chen, Tianyuan Li, **Xiantao Ma***, One-Step Formation of Four Chemical Bonds toward Dithiophosphinates via Multicomponent Reaction, *Chem. Commun.*, **2026**, DOI: [10.1039/D5CC06363A](https://doi.org/10.1039/D5CC06363A). (SCI 二区, 自然指数期刊)
2. **Xiantao Ma***, Xiaoyu Yan, Shangyuan Li, Xinyu Chen, Sifan Chen, Jing Yu, Catalyst- and solvent-free, atom- and stepeconomical synthesis of dithiophosphinates by one-pot domino introduction of sulfur atoms, *Green Chem.* **2025**, 27, 5001. (SCI 一区, IF = 9.2)
3. **Xiantao Ma***, Xiaoyu Yan, Jing Yu, Jiarui Guo, Jiakun Bian, Ran Yan, Qing Xu*, Li-Biao Han*, Metal-free catalytic nucleophilic substitution of primary alcohols with secondary phosphine oxides, *Green Chem.* **2025**, 27, 102. (SCI 一区, IF = 9.2)
4. Mengcheng Zhang,* Yuying Chen, Jiayu Liu, Shangyuan Li, Wenjia Xu, Jiaojiao Qi, and **Xiantao Ma***, Lewis Acid-Catalyzed Ring-Opening Reaction of Bicyclobutanes (BCBs) for the Highly Selective Synthesis of 1,1,3-Trisubstituted Cyclobutanes, *Org. Lett.* **2025**, 27, 9471. (SCI 一区, 自然指数期刊, IF = 5.0)
5. **Xiantao Ma***, Yuying Chen, Jing Yu, Zheng Liu, Mengcheng Zhang, Juntao Cao*, Introducing an Organic Chemistry II Teaching Experiment: Mechanochemical Synthesis of Thiazoline Heterocycle, *J. Chem. Educ.* **2025**, 102, 4893. (教育学 SCI 三区)
6. Yuying Chen, Xiaoyu Yan, Jing Yu, Yingying Su, Zheng Liu, Mengcheng Zhang,* **Xiantao Ma***, Nucleophilic Substitution of Alkyl Halides with Secondary Phosphine Oxides under Solvent-Free Conditions for the Synthesis of Tertiary Phosphine Oxides, *Eur. J. Org. Chem.* **2025**, 28, e202500229. (SCI 三区)
7. Mengcheng Zhang,* Yuying Chen, Jiayu Liu, Xiaoyu Yan, Kexin Huang*, **Xiantao Ma***, Synthesis of 2-Substituted-4,5-Dihydrothiazol-4-Ols by [3+2] Annulation of 1,4-Dithiane-2,5-Diol with Thioamides, *Asian J. Org. Chem.* **2025**, 14, e202400558. (SCI 三区)
8. **Xiantao Ma***, Yuying Chen, Yingying Zhu, Xiaoyu Yan, Mengcheng Zhang, Carbon-Chloride

- Bond Activation: Ni-Catalyzed Couplings of Carboxylic Acid with Dichloromethane, *Appl. Organomet. Chem.* **2025**, 39, e70250. (SCI 二区)
9. **Xiantao Ma**,* Yingying Zhu, Yuying Chen, Xiaoyu Yan and Mengcheng Zhang,* TM-free full utilization of S atoms: synthesis of thioethers from disulfides and quaternary ammonium salts, *Org. Biomol. Chem.* **2025**, 23, 3590. (SCI 三区)
10. Mengcheng Zhang, * Yuying Chen, Xiaoyu Yan, Yonggang Zhang and **Xiantao Ma** *, Synthesis of hydroxy-thiazoline substituted pyridine derivatives via [3 + 2] annulation of 1,4-dithiane-2,5-diol with cyanopyridine, *Org. Biomol. Chem.*, **2024**, 22, 8511. (SCI 三区)
11. **Xiantao Ma**,* Yingying Zhu, Xiaoyu Yan, Yuying Chen, and Xue-Ping Chang*, Temperature-Controlled Chemoselective Couplings of Alkyl Halides with Disulfides, *J. Org. Chem.* **2024**, 89, 18235. (SCI 二区)
12. Jing Yu,* Xiaoyu Yan, Yuying Chen, Kexin Guo, Shuo Wang, and **Xiantao Ma***, Pd-Catalyzed Aerobic Synthesis of Allylic Sulfones from Allylic Alcohols and Sulfonyl Hydrazines in Water, *J. Org. Chem.* **2024**, 89, 10344. (SCI 二区)
13. **Xiantao Ma**,* Jing Yu, Feng Liu, Ying Zhou, Wenxin Man, Xiaoyu Yan, and Yingying Zhu, The Visual Preparation of n-Bromobutane, *J. Chem. Educ.* **2024**, 101, 2493. (教育学 SCI 三区)
14. Xiaoyu Yan, Yuying Chen, Mei Zhao, Yiyun Yuan, Jiakun Bian, **Xiantao Ma***, Green Synthesis of Alkyl Thioesters in Water, *Chem. J. Chinese Universities*, **2024**, 45, 20240006. (SCI 四区)
15. **Xiantao Ma**,* Xiaoyu Yan, and Jing Yu , Transition-Metal-Catalyzed Direct Substitution of Alcohols in Aqueous Media, *Eur. J. Org. Chem.* **2023**, 26, e202300468. (SCI 三区)
16. Jing Yu, Xiaoyu Yan, Feng Liu, Ying Zhou, Wenxin Man, and **Xiantao Ma***, Pd-Catalyzed Dehydrative Synthesis of Allylic Amines in Water, *Asian J. Org. Chem.* **2023**, 12, e202300071. (SCI 三区)
17. Yingying Zhu, Xiaoyu Yan, Jing Yu, Wenxin Man, Feng Liu, Ying Zhou, **Xiantao Ma***, Catalyst-free and Efficient Synthesis of Disulfanes, *Chem. J. Chinese Universities*, **2023**, 44, 20230045. (SCI 四区)
18. **Xiantao Ma**,* Xiaoyu Yan, Yingying Zhu, Shuanglin Niu, Yuxuan Wang, Chao Yuan, Water-Promoted Green Synthesis of Heteroaryl Thioether, *Chin. J. Org. Chem.* **2023**, 43, 2136. (SCI 三区)
19. 马献涛*, 于静, 袁超, 邢子豪, 王硕, 醚的制备改进实验——二苯甲基乙基醚, *大学化学*, **2023**, 38, 164. (化学教研主流刊物)
20. 马献涛*, 于静, 袁超, 杨硕, 袁格, 曹俊涛*, 酰胺的制备新创实验——N-二苯甲基乙酰胺, *大学化学*, **2023**, 38, 277. (化学教研主流刊物)
21. **Xiantao Ma**,* Yingying Zhu, Jing Yu, Ran Yan, Xiaoni Xie, Lijun Huang, Qi Wang, Xue-Ping

- Chang* and Qing Xu*, Water oxidation by Brønsted acid-catalyzed in situ generated thiol cation: dual function of the acid catalyst leading to transition metal-free substitution and addition reactions of S-S bonds, *Org. Chem. Front.* **2022**, 9, 3204. (SCI 一区)
22. Jing Yu, Chao Wu, Chenyang Li, Danfeng Chen, Liuyue Ding, **Xiantao Ma***, Catalyst-free and Highly Efficient O-Silylation of Alcohols and Phenols, *Chem. J. Chin. Univ.* **2022**, 43, 20210588. (SCI 四区)
23. Zhenlei Zhang*, Jiusi Yang, Kairui Wu, Renjie Yu, Jiping Bu, Zijun Huang, Shaoke Li, **Xiantao Ma***, Access to α,α -dihaloacetophenones through anodic C double bond C bond cleavage in enaminones, *Tetrahedron Lett.* **2022**, 88, 153575. (SCI 三区)
24. **Xiantao Ma***, Yingying Zhu, Jing Yu, Geng Zhao, Jiaxin Duanmu, Yiyun Yuan, Xue-Ping Chang*, Dongli Xu and Qiuju Zhou*, Unprecedented observation and characterization of sulfur-centred bifurcated hydrogen bonds, *Phys. Chem. Chem. Phys.* **2021**, 23, 26519. (SCI 二区)
25. Qi Wang, Boran Zhu, Guang Yang, **Xiantao Ma***, Qing Xu*, Selective Synthesis of Unsymmetrical N-Heteroaryl Thioethers by Base-Free Direct Multi-Component Reaction, *Chin. J. Org. Chem.* **2021**, 41, 1193. (SCI 三区)
26. Qiuju Zhou, Lingyun Zheng, Bing Ma, Lijun Huang, Aoqi Liu, Xinhua Cao, Jing Yu, and **Xiantao Ma***, Insights into Substrate Self-Assisted Activation of Allylic Alcohols Guiding to Mild Allylic Substitution of Tautomerizable Heteroarenes, *J. Org. Chem.* **2020**, 85, 5097. (SCI 二区)
27. Jing Yu, Xueping Chang, Ruitian Ma, Qiuju Zhou, Mengmeng Wei, Xinhua Cao, and **Xiantao Ma***, Water-Promoted Dehydrative Tsuji–Trost Reaction of Non-Derivatized Allylic Alcohols with Sulfinic Acids, *Eur. J. Org. Chem.* **2020**, 7238. (SCI 三区)
28. **Xiantao Ma***, Jing Yu, Zilong Wang, Yun Zhang, Qiuju Zhou, Efficient Activation of Allylic Alcohols in Pd-Catalyzed Allylic Substitution Reactions, *Chin. J. Org. Chem.* **2020**, 40, 2669. (SCI 三区)
29. **Xiantao Ma***, Jing Yu, Ran Yan, Mengli Yan, and Qing Xu*, Promoting Effect of Crystal Water Leading to Catalyst-Free Synthesis of Heteroaryl Thioether from Heteroaryl Chloride, Sodium Thiosulfate Pentahydrate, and Alcohol, *J. Org. Chem.* **2019**, 84, 11294. (SCI 二区)
30. **Xiantao Ma***, Jing Yu, Qiuju Zhou*, Ran Yan, Lingyun Zheng, and Lingling Wang, Substrate Self-Assisted Secondary Bond Activation of Allylic Alcohol in a Tsuji–Trost Reaction Revealed by NMR Methods, *J. Org. Chem.* **2019**, 84, 7468. (SCI 二区)
31. **Xiantao Ma***, Jing Yu, Mengyuan Jiang, Mengyu Wang, Lin Tang*, Mengmeng Wei, and Qiuju Zhou*, Mild and Regioselective Bromination of Phenols with TMSBr, *Eur. J. Org. Chem.* **2019**, 4593. (SCI 三区)

32. **Xiantao Ma**,* Kunjie Zhou, Mengjuan Ren, Mengyu Wang, Jing Yu, Steric Hindrance Effect Leading to Regioselective Bromination of Phenols with HBr, *Chin. J. Org. Chem.* **2019**, 39, 2796. (SCI 三区)
33. **Xiantao Ma**,* Jing Yu, Ruitian Ma, RanYan, Zhenlei Zhang,* Palladium-Catalyzed Dehydrative Cross Couplings of Stabilized Phosphorus Ylides with Allylic Alcohols, *Chin. J. Org. Chem.* **2019**, 39, 830. (SCI 三区)
34. **Xiantao Ma**,* Jing Yu, Cuijie Han, Qiuju Zhou, Mengjuan Ren, Lixin Li, and Lin Tang*, Dehydrative Synthesis of Functionalized Skipped Dienes from Stabilized Phosphonium Ylides and Allylic Alcohols in Water, *Adv. Synth. Catal.* **2019**, 361, 1023. (SCI 二区)

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35. **Xiantao Ma**, Qing Xu*, Huan Li, Chenliang Su, Lei Yu, Xu Zhang, Hongen Cao, Li-Biao Han*, Alcohol-based Michaelis–Arbuzov reaction: an efficient and environmentally-benign method for C–P(O) bond formation *Green Chem.* **2018**, 20, 3408.
36. **Xiantao Ma**, Lei Yu, Chenliang Su*, Yaqi Yang, Huan Li, Qing Xu*, Efficient Generation of C–S Bonds via a By-Product-Promoted Selective Coupling of Alcohols, Organic Halides, and Thiourea, *Adv. Synth. Catal.* **2017**, 359, 1649.
37. **Xiantao Ma**, Hao Xu, Ying-Lin Xiao, Chen-Liang Su*, Jian-Ping Liu*, Qing Xu*, Cu/DMEDA/TEMPO-catalyzed aerobic oxidation of primary amines with air, *Chin. Chem. Lett.* **2017**, 28, 1336.
38. **Xiantao Ma**, Bo Li, Yinglin Xiao, Xiaochun Yu*, Chenliang Su*, Qing Xu*, Synthesis of Alkylated Amides and Amines by Cu(OTf)₂-Catalyzed N-Alkylation of Nitriles and Amines with Alcohols., *Chin. J. Org. Chem.* **2017**, 37, 2034..
39. **Xiantao Ma**, Quan Liu, Xiaojuan Jia, Chenliang Su*, Qing Xu*, Efficient Synthesis of Unsymmetrical Heteroaryl Thioethers and Chalcogenides by Alkali Hydroxide-Mediated S_NAr Reactions of Heteroaryl Halides and Dichalcogenides, *RSC Adv.* **2016**, 6, 56930.
40. **Xian-Tao Ma**, Rui-Han Dai, Juan Zhang, Yonghong Gu*, Shi-Kai Tian*, Catalytic Stereospecific Substitution of Enantioenriched Allylic Alcohols with Sodium Sulfinates, *Adv. Synth. Catal.*, **2014**, 356, 2984.
41. **Xian-Tao Ma**, Yong Wang, Rui-Han Dai, Cong-Rong Liu, Shi-Kai Tian*, Catalytic Allylation of Stabilized Phosphonium Ylides with Primary Allylic Amines, *J. Org. Chem.*, **2013**, 78, 11071.
42. **Xian-Tao Ma**, Shi-Kai Tian*, Palladium-Catalyzed Regioselective Halogenation of Aromatic Azo Compounds, *Adv. Synth. Catal.* **2013**, 355, 337.

专利著作:

1. 国家发明专利 (ZL 2023 1 0704964.3): **马献涛**, 于静, 朱影影, 一种 N-烷基化吡啶硫酮类

化合物的合成方法, 2025.11

2. 国家发明专利 (ZL 2022 1 1509988.5): 马献涛, 于静, 闫晓雨, 牛双林, 袁超, 一种 N-杂环硫醚类化合物的合成方法, 2024.6
3. 国家发明专利 (ZL 201910080568.1): 马献涛, 于静, 江梦园, 唐林, 周秋菊, 一种苯酚类化合物高区域选择性溴化的方法, 2021.8
4. 国家发明专利 (ZL202010051676.9): 马献涛, 于静, 樊宇, 张倩, 唐林, 一种含 1,4-萘醌结构的硫醚类化合物的合成方法, 2021.7
5. 国家发明专利 (ZL201810788951.8): 马献涛, 于静, 江梦园, 燕然, 唐林, 一种 α -烯丙基取代的 α,β -不饱和酮、酯或腈化合物的合成方法, 2021.4
6. 专著: Xiantao Ma, Chenliang Su, Qing Xu*, Chapter 7: *N-Alkylation by hydrogen autotransfer reactions*, in: *Hydrogen transfer reactions: reductions and beyond* (Eds.: G. Guillena, D. J. Ramón), *Topics in Current Chemistry*, Springer, Berlin, Heidelberg, 20444 words, 2016.

奖励及荣誉

科研方面:

近年来, 以第一或通讯作者在 *Green Chem.*, *Org. Lett.*, *Org. Chem. Front.*, *Adv. Synth. Catal.*, *J. Org. Chem.* 等国际知名有机化学期刊上发表 SCI 学术论文 40 余篇, 参与撰写出版专著一个章节。主持国家自然科学基金 1 项, 河南省高校科技创新人才 1 项、河南省科技攻关项目 1 项, 中国博士后基金面上项目 1 项, 授权国家发明专利 5 件。

教学方面:

主持获批国家一流本科课程等省级以上质量工程项目 3 项, 获河南省教师教学技能大赛一等奖、信阳师范大学教师教学创新大赛一等奖、河南省教育信息化优秀成果一等奖、校长教学质量奖等教学奖励多项, 在 *J. Chem. Edu.*, 大学化学等化学教育领域主流刊物发表教研论文 6 篇。

人才培养:

指导学生获大学生化学实验创新设计竞赛全国总决赛一等奖 2 项、二等奖 1 项, 华中赛区一、二等奖 5 项; 获批省大学生创新训练计划项目 1 项、校大学生科研基金项目 3 项, 学生毕业考研升学至湖南大学、华南理工大学、华东理工大学、华中师范大学、郑州大学、河南大学等省内外知名双一流高校 20 余人; 指导研究生获国家奖学金 3 人, 校优秀硕士学位论文 2 篇, 校研究生学术明星 1 人, 应届考取西北农林科技大学等知名高校博士研究生 3 人。

个人主页

<http://www.xynu.edu.cn/>