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职称/职务：讲师/硕士生导师

专业：无机化学

研究方向：配位化学，金属氧簇

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个人经历

教育经历：

2005.9 -2009.7 学士 鲁东大学 化学与材料科学学院 化学（师范类）

2009.9-2014.07 博士 中国科学院大学 福建物质结构研究所 物理化学 导师：黄小荣研究员

工作经历：

2014.7-至今 信阳师范学院化学化工学院 讲师

研究领域与兴趣

- 配位聚合物的合成及性能研究
- 金属钛氧簇-有机杂化材料的合成及性能研究

主讲课程

本科生：《中级无机化学》、《无机化学实验》、《普通化学》等

研究生：《配位化学》、《高等无机化学》等

主持科研项目

纵向项目：

- 河南省科技攻关项目，微波加热诱导钴基和铜基磁性配位聚合物的结构转化研究，212102311145，2021-01 至 2022-12，主持
- 河南省科技攻关项目，离子热合成新颖镧-铈氧簇基杂化材料及其光催化分解水产氢性能研究，192102310504，2019.01-2020.12，主持
- 河南省高等学校重点科研项目计划，离子液体中铜基配位聚合物的合成及其磁性能研究，21A150049，3 万元，2021.01-2022.12，主持
- 河南省高等学校重点科研项目计划，基于配位聚合物的结构转化与性能研究，15A150078，2

万元，2015.01-2016.12，主持

代表性研究成果

期刊论文：

第一作者/通讯作者论文：

1. **Guo-Dong Zou**, Chun-Bo Duan, Sai-Wen Lu, Xiang-Hua Zhao*, Qi-Long Du, Hui Xu*, Jian-Feng Zhao*, Ling-Hai Xie, Xin-Wen Zhang, Dong-Jie Deng. Phenothiazine dioxide end-capped spiro[fluorene-9,9'-xanthene] as host for efficient blue TADF OLEDs. *Journal of Luminescence*, **2022**, 243, 118595.
2. Na Li, Meng-Yao Pan, Zi-Juan Yang, Ming-Yu Zhang, **Guo-Dong Zou***, Yang Fan*. Synthesis of nickel-doped titanium-oxo clusters with enhanced visible-light photocatalytic activity. *Transition Metal Chemistry*, **2022**, 47, 223–228.
3. Na Li, Meng-Yao Pan, Si-Tong Lu, **Guo-Dong Zou***, Yang Fan*. Synthesis, crystal structure, and photocatalytic property of heterometallic calcium-titanium oxo cluster with high aqueous stability. *Transition Metal Chemistry*, **2022**, 47, 47–52.
4. Na Li, Shi-Qi Zhao, Xin-Ru Ding, Xin-Ying Hu, Qi-Ke Zhang, **Guo-Dong Zou***, Yang Fan*. 8-Hydroxyquinoline functionalized titanium-oxo clusters for visible-light-driven photocatalytic oxidative desulfurization. *Inorganic Chemistry Communications*, **2021**, 130, 108681.
5. Bo Zhang, Wei-An Li, Jun Li*, Yu-Ping Xu, Ya-Ru Xu, Wen-Hao Wang and **Guo-Dong Zou***, [Ni(5,5'-dmbpy)₃]₂Ag₄I_{8,9}·4H₂O: a discrete iodoargentate with transition metal complexes. *Inorganic Chemistry Communications*, **2020**, 121, 108219.
6. Hai-Ting Lv, Ying Cui, **Guo-Dong Zou***, Na Li, Pei Yang and Yang Fan*, Synthesis of titanium-oxo macrocycles and their catalytic properties for oxidative desulfurization. *Dalton Transactions*, **2019**, 48, 14044-14048.
7. **Guo-Dong Zou***, Liao-Kuo Gong, Li Liu, Qian Zhang, Xiang-Hua Zhao, Two low-dimensional transition metal coordination polymers constructed from thiophene-2,5-dicarboxylic acid and N/O-donor ligands: Syntheses, structures and magnetic property. *Inorganic Chemistry Communications*, **2019**, 99, 140-144.
8. Ying Cui, **Guo-Dong Zou***, Hua-Min Li, Yang Huang, Yang Fan*, 4-Chlorosalicylate-stabilized titanium-oxo clusters with structures mediated by tetrazole and their photophysical properties, *Polyhedron*, **2019**, 157, 177-182.
9. Yang Huang, **Guo-Dong Zou***, Hua-Min Li, Ying Cui and Yang Fan*, A photoactive {Ti₁₆} metal-organic capsule: structural, photoelectrochemical and photocatalytic properties, *New Journal of Chemistry*, **2018**, 42, 14079-14082.
10. Ying Cui, **Guo-Dong Zou***, Hua-Min Li, Yang Fan*, Syntheses, structures and photoelectrochemical properties of phosphite-stabilized titanium-oxo clusters containing 2,2'-biphenolato ligands. *Inorganic Chemistry Communications*, **2018**, 97, 176-179.
11. **Guo-Dong Zou***, Chong-Bin Tian, Xiao-Chen Yu, Jing Lu and Ming Chen, Two transition metal coordination polymers constructed from 1,4-naphthalenedicarboxylate and N/O-donor auxiliary ligands: Syntheses, structures and magnetic property, *Inorganic Chemistry Communications*, **2017**, 85, 105-109.
12. Yang Fan*, Ying Cui, **Guo-Dong Zou***, Rui-Huan Duan, Xu Zhang, Yu-Xiang Dong, Hai-Ting Lv,

- Jun-Tao Cao* and Qiang-Shan Jing, A ferrocenecarboxylate-functionalized titanium-oxo-cluster: the ferrocene wheel as a sensitizer for photocurrent response, *Dalton Transactions*, **2017**, 46, 8057-8064.
13. Yang Fan*, Hua-Min Li, Rui-Huan Duan, Hai-Ting Lu, Jun-Tao Cao, **Guo-Dong Zou*** and Qiang-Shan Jing, Phosphonate-Stabilized Titanium-Oxo Clusters with Ferrocene Photosensitizer: Structures, Photophysical and Photoelectrochemical Properties, and DFT/TDDFT Calculations, *Inorganic Chemistry*, **2017**, 56, 12775-12782.
14. **Guo-Dong Zou***, Xin-Xin Huo, Xiao-Chen Yu, Lin Tang, Bo Zhang, Xiao-Ying Huang*, Three transition metal cluster-based coordination polymers based on 1,4-naphthalenedicarboxylate and pyridine ligands, *Inorganic Chemistry Communications*, **2016**, 74, 16-21.
15. **Guo-Dong Zou**, Zhang-Zhen He, Chong-Bin Tian, Liu-Jiang Zhou, Mei-Ling Feng, Xu-Dong Zhang and Xiao-Ying Huang*, “Microwave and Conventional Hydro(Solvo)thermal Syntheses of Three Co(II) Coordination Polymers: Supramolecular Isomerism and Structural Transformations Accompanied by Tunable Magnetic Properties”, *Crystal Growth & Design*, **2014**, 14, 4430-4438.
16. **Guo-Dong Zou**, Ze-Ping Wang, Ying Song, Bing Hu and Xiao-Ying Huang*, “Syntheses, structures and photocatalytic properties of five new praseodymium-antimony oxochlorides: from discrete clusters to 3D inorganic-organic hybrid racemic compounds”, *Dalton Transactions*, **2014**, 43, 10064-10073.
17. **Guo-Dong Zou**, Gui-Gang Zhang, Bing Hu, Jian-Rong Li, Mei-Ling Feng, Xin-Chen Wang, and Xiao-Ying Huang*, “A 3D Hybrid Praseodymium-Antimony-Oxochloride Compound: Single-Crystal-to-Single-Crystal Transformation and Photocatalytic Properties”, *Chemistry – A European Journal*, **2013**, 19, 15396-15403.
- 18 邹国栋, 刘盼盼, 马伊琳, 赵祥华, 樊阳. 一例锰基配位聚合物的构筑及其客体分子脱除研究 [J]. 信阳师范学院学报 (自然科学版), 2021, 34(4): 619-623.

奖励及荣誉

入选南湖学者奖励计划 B 类人才, 获河南省教育厅优秀科技论文二等奖, 信阳市自然科学优秀学术论文奖一等奖等。