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职称/职务: 讲师

专业: 无机化学

研究方向: 金属-氧簇基功能材料

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个人经历

教育经历:

2009.09-2013.06	河南大学民生学院	应用化学	本科	
2013.09-2016.07	河南大学	无机化学	硕士	师从: 赵俊伟 教授
2016.09-2020.07	北京理工大学	无机化学	博士	师从: 杨国昱 教授

工作简历:

2020.07-2023.05	北京理工大学	化学工程与技术	博士后	合作导师: 杨国昱、孙克宁 教授
2023.05-至今	信阳师范学院	化学化工学院	讲师	

研究领域与兴趣

金属-氧簇的设计合成、结构及催化性能

主讲课程

本科生: 《科技文献与写作》、《无机化学实验》

主持科研项目

无

代表性研究成果

期刊论文:

- Hai-Lou Li**, Chen Lian and Guo-Yu Yang*. $\{Ti_{12}\}$ Cluster-Added Poly(polyoxometalate) Containing Mixed Trivacant Keggin and Dawson Fragments. *Inorg. Chem.* **2023**, 62, 9014–9018
- Hai-Lou Li**, Chen Lian, and Guo-Yu Yang* A Zr-added Dawson-type poly(polyoxometalate) *Dalton Trans.*, **2023**, 52, 857–861.
- Hai-Lou Li** and Guo-Yu Yang* New $\{Co_9\}$ cluster-added banana-shaped polyoxometalate modified by B atom. *Polyoxometalates*, **2023**, 2, 9140034.
- Hai-Lou Li**, Chen Lian, and Guo-Yu Yang* A new 4-Ti-added polyoxometalate. *Tungsten*. **2023**

- doi.org/10.1007/s42864-023-00221-5.
5. Chen Lian, Si-Han Zhao, **Hai-Lou Li***, Xinhua Cao* A giant Ce-containing poly(tungstobismuthate): Synthesis, structure and catalytic performance for the decontamination of a sulfur mustard simulant. *Chin. Chem. Lett.* **2023**, doi.org/10.1016/j.ccllet.2023.109343.
 6. **Hai-Lou Li**, Chen Lian, and Guo-Yu Yang*. A ring-shaped 12-Ti-substituted poly(polyoxometalate): Synthesis, structure and catalytic properties. *Sci. China Chem.*, **2022**, *65*, 892–897.
 7. **Hai-Lou Li**, Chen Lian, and Guo-Yu Yang*. A {Ti₆W₄}-Cluster-Substituted Polyoxotungstate: Synthesis, Structure and Catalytic Oxidation Properties. *Inorg. Chem.* **2021**, *60*, 14622–14628.
 8. **Hai-Lou Li**, Chen Lian, and Guo-Yu Yang*. Ti₆/Ti₁₀-Oxo Wheel-Cluster Substituted Silicotungstate Aggregates. *Inorg. Chem.* **2021**, *60*, 16852–16859.
 9. **Hailou Li**, Xin Xu, Zhigang Tang, Lijuan Chen,* Junwei Zhao,* and Guo-Yu Yang* Three Lanthanide-Functionalized Antimonotungstate Clusters with a {Sb₄O₄Ln₃(H₂O)₈} Core: Syntheses, Structures and Properties. *Inorg. Chem.* **2021**, *60*, 18065–18074.
 10. **Hai-Lou Li**, Chen Lian, Da-Peng Yin and Guo-Yu Yang*. Nonanuclear Heterometal Five-Layer Sandwich-Type Polyoxometalate. *Inorg. Chem.* **2020**, *59*, 6131–6136.
 11. **Hailou Li**, Chen Lian, Lijuan Chen,* Junwei Zhao,* and Guo-Yu Yang*. Two unusual nanosized Nd³⁺-substituted selenotungstate aggregates simultaneously comprising lacunary Keggin and Dawson polyoxotungstate segments. *Nanoscale*, **2020**, *12*, 16091–16101.
 12. **Hai-Lou Li**, Chen Lian, Da-Peng Yin, and Guo-Yu Yang*. Three Zr(IV)-Substituted Polyoxotungstate Aggregates: Structural Transformation from Tungstoantimonate to Tungstophosphate Induced by pH. *Inorg. Chem.* **2020**, *59*, 12842–12849.
 13. **Hai-Lou Li**, Mo Zhang, Chen Lian, Zhong-Ling Lang*, Hongjin Lv* and Guo-Yu Yang*. Ring-Shaped Polyoxometalate Built by {Mn₄PW₉} and PO₄ Units for Efficient Visible-Light-Driven Hydrogen Evolution. *CCS Chem.* **2020**, *2*, 2095–2103.
 14. **Hai-Lou Li**, Chen Lian, Li-Juan Chen,* Jun-Wei Zhao,* and Guo-Yu Yang*. Two Ce³⁺-Substituted Selenotungstates Regulated by N, N-Dimethylethanolamine and Dimethylamine Hydrochloride. *Inorg. Chem.* **2019**, *58*, 8442 – 8450.
 15. **Hai-Lou Li**, Chen Lian, Da-Peng Yin, Zhi-Yu Jia and Guo-Yu Yang.* A New Hepta-Nuclear Ti-Oxo-Cluster Substituted Tungstoantimonate and Its Catalytic Oxidation of Thioethers. *Cryst. Growth Des.* **2019**, *19*, 376–380.
 16. **Hai-Lou Li**, Chen Lian, Da-Peng Yin and Guo-Yu Yang*. A new octa-Mn-substituted poly(polyoxotungstate). *Dalton Trans.* **2019**, *48*, 14306–14311.
 17. **Hai-Lou Li**, Zhong Zhang, Yue-Lin Wang and Guo-Yu Yang*. A Trinuclear Zr - Substituted Decanuclear Hetero - Metal Sandwich Tungstoantimonate: Synthesis, Structure and Properties. *Eur. J. Inorg. Chem.* **2019**, 486–419.
 18. **Hai-Lou Li**, Ya-Jie Liu, Ya-Min Li, Li-Juan Chen, Jun-Wei Zhao, Guo-Yu Yang. Unprecedented Selenium and Lanthanide Simultaneously Bridging Selenotungstate Aggregates Stabilized by Four Tetravacant Dawson-like {Se₂W₁₄} Units. *Chem. Asian J.* **2018**, *13*, 2897–2907.
 19. **Hai-Lou Li**, Yue-Lin Wang, Zhong Zhang, Bai-Feng Yang, and Guo-Yu Yang.* A new tetra-Zr(IV) substituted polyoxotungstate aggregate. *Dalton Trans.*, **2018**, *47*, 14017 –14024.
 20. **Hai-Lou Li**, Ya-Jie Liu, Jing-Lin Liu, Li-Juan Chen, Jun-Wei Zhao, Guo-Yu Yang. Structural Transformation from Dimerization to Tetramerization of Serine-Decorated Rare-Earth-Incorporated Arsenotungstates Induced by the Usage of Rare-Earth Salts. *Chem. Eur. J.* **2017**, *23*, 2673–2689.

21. **Hailou Li**, Yajie Liu, Rui Zheng, Xing Ma, Lijuan Chen, Junwei Zhao. Syntheses, structures and fluorescence properties of three rare-earth containing dicosatungstates. *Spectrochim Acta A Mol Biomol Spectrosc.* **2017**, *176*, 114–122.
22. **Hailou Li**, Yajie Liu, Rui Zheng, Lijuan Chen, Jun-Wei Zhao, Guo-Yu Yang. Trigonal Pyramidal {AsO₂(OH)} Bridging Tetranuclear Rare-Earth Encapsulated Polyoxotungstate Aggregates. *Inorg. Chem.* **2016**, *55*, 3881–3893.
23. **Hailou Li**, Wen Yang, Xiuhua Wang, Lijuan Chen, Jianru Ma, Liwei Zheng, Junwei Zhao. Self-Assembly of a Family of Isopolytungstates Induced by the Synergistic Effect of the Nature of Lanthanoids and the pH Variation in the Reaction Process: Syntheses, Structures, and Properties. *Cryst. Growth Des.* **2016**, *16*, 108–120.
24. Jun-Wei Zhao,* **Hai-Lou Li**, Xing Ma, Zhigang Xie, Li-Juan Chen, Yongsheng Zhu. Lanthanide-Connecting and Lone-Electron-Pair Active Trigonal-Pyramidal-AsO₃ Inducing Nanosized Poly(polyoxotungstate) Aggregates and Their Anticancer Activities. *Sci. Rep.* **2016**,*6*:26406.
25. Junwei Zhao,* **Hailou Li**, Yanzhou Li, Chunyang Li, Zhenling Wang, Lijuan Chen. Rectangle versus Square Oxalate-Connective Tetralanthanide Cluster Anchored in Lacunary Lindqvist Isopolytungstates: Syntheses, Structures, and Properties. *Cryst. Growth Des.* **2014**, *14*, 5495–5505.

奖励及荣誉

信阳师范学院 2023 年理工科 A 类博士人才引进。主要从事金属-氧簇(含过渡金属-氧簇、稀土金属-氧簇和异金属-氧簇等)设计合成、结构及性能(含磁性、发光、电化学及催化等)。在 *CCS Chem.*, *Sci. China Chem.*, *Inorg. Chem.*, *Chem. Eur. J.*, *Chin. Chem. Lett.*, *Nanoscale*, *Cryst. Growth Des.*, *Chem. Asian J.* 以及 *Dalton Trans.* 等国际期刊发表多金属氧簇相关 SCI 论文近 50 余篇，其中第一作者论文 30 余篇，荣获河南省教育厅科技成果一等奖 1 项（第六完成人），河南省教育厅科技成果二等奖 1 项（第六完成人）。