

姓名：郝玉成

联系方式：0551-62158393

电子邮箱：haoyco@hfu.edu.cn

研究团队/平台：功能材料结构设计及应用；材料化工与环保



主要研究方向：

- ①结构化设计新型光电功能材料；
- ②无机多孔晶态功能材料；
- ③有机无机杂化功能材料；
- ④多金属 MOFs 基 MIC 材料；。

个人简介：

合肥大学能源材料与化工学院副教授，硕士生导师，2018 年 2 月获得德国亚琛工业大学，无机固体材料化学工学，博士学位，师从 Dirk Bosbach 和 Evgeny V. Alekseev 教授 (Forschungszentrum Juelich, IEK-6)；合肥市“1251 人才工程”。从事科研工作以来主持或参与德国亥姆霍兹协会研究基金一项，国家自然科学基金项目一项，省部级自然科学基金重点项目两项，在包括 *Journal of Colloid and Surface Science*, *Inorganic Chemistry*, *Daolton transaction*, *Crystal Growth&Design*, *CrystEngComm*, *Journal of Solid State Chemistry* 以及 *European Journal of Inorganic Chemistry* 等国际知名核心期刊上，作为主要完成人发表学术论文 20 余篇，授权发明专利五项；并担任 *Inorganic Chemistry* 等国际知名学术期刊审稿人。

主要科研成果（论文、著作、专利等）：

- 1) **Yucheng Hao***, Chen C, Hou C, Zhao X, Lin Y, Zhang R, et al. Design, Synthesis, and Improvement of Nonlinear Optical Properties from Aluminophosphite to Aluminophosphate. *Inorganic Chemistry*. **2025**, DOI: 10.1021/acs.inorgchem.5c01496
- 2) **Yucheng Hao***, Hou C, Chen C, Zhou H, Liu Y, Lin Y, et al. Advances in the Efficient

Removal of the Key Radioactive Nuclide ^{90}Sr Using Crystalline Ion-Exchange Materials: A Review. *Chemistry-An Asian Journal*. **2025**, e202401320.

- 3) **Yucheng Hao***, Chen, C.; Hou, C.; Liu, S.; Peng, Z.; Lin, Y.; Li, H.; Zhao, X.; Koirala, K.; Lu, H.; Deng, C.; Hu, K., $\text{Li}_3[\text{AlP}_2\text{O}_7\text{F}(\text{OH})](\text{H}_2\text{O})_{0.5}$ and $\text{A}[\text{Al}_2(\text{PO}_4)_2\text{F}(\text{H}_2\text{O})](\text{A} = \text{K}, \text{Rb})$: Counter Cation Templates Derived Three Polar Alkaline Metal Fluoroaluminophosphates. *Inorganic Chemistry* **2024**, 63 (52), 24885-24895.
- 4) Lin Y, Zhang R-F, **Hao Y***, Cao M-Y, Pan X, Mao J-G. $\text{BaPb}_2(\text{CO}_3)_2\text{F}_2$: Enhancing Birefringence by a Multiunit Synergy Effect. *Inorganic Chemistry*. 2024;63(50):23810-7.
- 5) **Yucheng Hao***, Jian Deng, Changlin Chen, Yuan Lin, Haijian Li, Guangchao Qin, and Kunhong Hu., $\text{Na}_3[\text{Al}_2\text{B}_6\text{P}_4\text{O}_{22}(\text{OH})_3](\text{H}_2\text{O})_6$ and $\text{Na}_3[\text{Al}_2\text{BP}_2\text{O}_{11}](\text{H}_2\text{O})_{0.5}$: Two Remarkable Complex Aluminum Borophosphates, *Inorganic. Chemistry*, **2024**, 63(20), 9098-9108.
- 6) **Yucheng Hao***, Yongjian Chen; Xin Cao; Changlin Chen; Min Xu; Yuan Lin; Haijian Li; Kunhong Hu, First Potassium Fluoroaluminate Ionic Exchanger for Rapid and Selective Removal of Sr^{2+} with High Capacity, *Chemistry-A European Journal*, **2024**, e202400261. <https://doi.org/10.1002/chem.202400261>.
- 7) Yi Yu, **Yucheng Hao***, Bin Xiao, Eike Langer, Sergei A. Novikov, Harry Ramanantoanina, Ivan Pidchenko, Dieter Schild, Thomas E. Albrecht-Schoenart, Rüdiger-A. Eichel, Tonya Vitova, Evgeny V. Alekseev, U(V) Stabilization via Aliovalent Incorporation of Ln(III) into Oxo-salt Framework, *Chemistry-A European Journal*, 2024, e202401033. <https://doi.org/10.1002/chem.202401033>.
- 8) **Yucheng Hao***, Yang Zhang, Yuying Zhang, Zixiang Fu, Chunyang Heng, Junjie Li, Jiatian You, Kunhong Hu, Yuan Lin and Haijian Li; A series of novel phosphites/phosphates with deep-ultraviolet cut-off edges.; *CrystEngComm*, **2023**, 25(34), 4864-4872.
- 9) **Yucheng Hao***, Langer, E. M.; Xiao, B.; Kegler, P.; Cao, X.; Hu, K.; Eichel, R.-A.; Wang, S.; Alekseev, E. V., Understanding of the structural chemistry in the uranium oxo-tellurium system under HT/HP conditions., *Frontiers in Chemistry*, **2023**, 11, 1152113.

- 10) **Yucheng Hao***; Gabe J. Murphy; Philip Kegler; Yan Li; Piotr M. Kowalski; Simon Blouin; Yang Zhang; Shuao Wang; Lars Robben; Thorsten M. Gesing; Evgeny V. Alekseev ; Understanding the role of flux, pressure and temperature on polymorphism in ThB_2O_5 , *Dalton Transactions*, **2022**, 51(35), 13376-13385.
- 11) Xinlei Li; Yang Zhang; **Yucheng Hao***; Yuan Lin; Haijian Li; Minghua Li; Changzeng Fan; Evgeny V. Alekseev ; $\text{Li}_3[\text{Al}(\text{PO}_4)_2(\text{H}_2\text{O})_{1.5}]$ and $\text{Na}[\text{AlP}_2\text{O}_7]$: from 2D Layered Polar to 3D Centrosymmetric Framework Structures, *CrystEngComm*, **2022**, 24, 6917-6924.
- 12) **Yucheng Hao**, Philip Kegler, Thomas E. Albrecht-Schmitt, Shuao Wang, Qiang Dong, Evgeny V. Alekseev, Two-Dimensional Uranyl Borates: From Conventional to Extreme Synthetic Conditions., *European Journal of Inorganic Chemistry*, **2020**, 4, 407-416.
- 13) **Yucheng Hao***, Linbo He, Guangjie Ge, Quanzheng Zhang, Ningjing Luo, Shuping Huang, Haijian Li, Evgeny V. Alekseev, $\text{Mg}_3\text{Pt}(\text{BO}_3)_2\text{O}_2$: The first platinum borate from the flux technique. *Journal of Solid State Chemistry*, **2020**, 281, 121046.
- 14) **Yucheng Hao***; Yang Pan; Yuan Lin; Linbo He; *et al.* Highly porous aluminophosphates with unique three dimensional open framework structures from mild hydrothermal syntheses. *CrystEngComm* **2020**, 22, 3070-3078.
- 15) **Yucheng Hao**, Alekseev, E.V., Klepov, V.V. and Yu, N*. , Structural Variations in Complex Sodium Thorium Arsenates. *European Journal of Inorganic Chemistry*., **2020**, 2020, 3187-3193.
- 16) **Yucheng Hao**, Vladislav V. Klepov, Philip Kegler, Giuseppe Modolo, Dirk Bosbach, Thomas E. Albrecht-Schmitt, Shuao Wang and Evgeny V. Alekseev* “Synthesis and Study of the First Zeolitic Uranium Borate.” *Crystal Growth & Design*, **2018**, 18, 498-505.
- 17) **Yucheng Hao**, Gabriel L. Murphy, Dirk Bosbach, Thomas E. Albrecht-Schmitt, and Evgeny V. Alekseev* “Porous Uranyl Borophosphates with Unique three dimensional Open Framework Structure.” *Inorganic Chemistry*, **2017**, 56, 9311-9320.
- 18) Xin Cao, Haijian Li, **Yucheng Hao***; Recent advances for water-stable metal-organic frameworks (MOFs), *J. Phys.: Conf. Ser.* **2023**, 2478, 062029.
- 19) 专利:郝玉成等; 一种含铂金无机晶态硼酸盐及其制备方法和用途, ZL201910861240.3;

- 20) 专利:郝玉成等; 一种硼磷酸盐二阶非线性光学材料制备工艺, ZL201910325179.0;
- 21) 专利:郝玉成等; 一种二阶非线性光学晶体磷铝酸盐及其制备方法和应用, ZL202111652281.5.
- 22) 郝玉成; 姚鹤; 李心蕾; 李明华; 方元文; 秦广超; 曹雪兰; 一种二阶非线性光学晶体硼磷酸铝锂及其制备方法和应用, 中国 ZL202211183159.2。

主要科研项目:

- 1、安徽省高校自然科学基金重点项目《多孔性硼酸盐及其衍生物晶态功能材料的设计合成与应用性研究》 2019.07-2021.06, 经费 6 万, 主持;
- 2、合肥学院人才基金项目《新型二阶非线性光学功能材料设计合成与应用性研究》 2019.07-2022.06, 经费 10 万, 主持;
- 3、安徽省自然科学基金青年项目《新型多孔无机骨架功能材料的设计合成、选择性离子交换及机理研究》, 2020.07-2022.07; 经费 10 万, 主持.
- 4、激光倍频材料的研究与开发项目(企业委托): 2024-2027; 82 万, 主持

科研奖励和荣誉:

- 1、获得德国亚琛工业大学博士 Magna Cum Laude-极优等级;
- 2、指导本科生和研究生获 2022 第八届“互联网+”安徽省金奖和银奖;
- 3、指导第八届“互联网+”大学生创新创业大赛暨中国国际大学生创新创业大赛 国铜
- 4、合肥大学 2023 年度“就业先进个人”;
- 5、合肥大学 2023 年度“优秀共产党员”;
- 6、合肥大学 2024 年度“就业先进个人”。