

Curriculum Vitae

PERSONAL

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EDUCATIONAL EXPERIENCES

9/2018-6/2022	B.S., Zhengzhou University	Zhengzhou, China
● Synthesis of Chiral MOFs		
● Separation of enantiomers (1,1'- bi-2-naphthol)		
● The mechanism of chiral recognition via Raman spectroscopy and SSNMR		
9/2022-6/2025	M.S., China Academy of Engineering Physics	Mianyang, China
● Synthesis of Halogen-Modified MOFs		
● Separation of the noble gases (xenon and krypton)		
● Gas adsorption simulation analysis by using the Materials Studio - Sorption		
8/2025-NOW RA., The Hong Kong University of Science and Technology (Guang Zhou)		Guangzhou, China
● Mixed matrix membranes (MMMs)		
● Structure tuning and pore design		
● Gas separation		

PUBLICATIONS

1. **Siqi Dong**, Boyu Liu, Ka Lv, Shuanglin Hu, Zirui Liu, Zhenghao Mao*, Shunshun Xiong*, Bromine functionalized zirconium-fumarate frameworks for enhanced xenon capture and separation, *Separation and Purification Technology*, (2025) 132282
2. **Siqi Dong**¹, Bochun Zhang¹, Mohammad Wahiduzzaman, Chuting Yang, Qiang Liu, Guillaume Maurin, Shunshun Xiong*, Sujing Wang*, Xiaolin Wang*, Krypton/Xenon Separation at Room Temperature in a Flexible Coordinative Framework Sorbent, submitted
3. Boyu Liu, **Siqi Dong**, Ka Lv, Zirui Liu, Songzhu Qi, Shunshun Xiong*, Sheng Hu*, Geometrical pore engineering via ligand racemization in metalorganic frameworks for enhanced Xe capture and separation, *Journal of Materials Chemistry A*, 13 (2025) 12195 – 12202.
4. Qingqing Yan¹, Shuyi An¹, Liang Yu¹, Shenfang Li, Xiaonan Wu, **Siqi Dong**, Shunshun Xiong*, Hao Wang*, Sujing Wang* & Jiangfeng Du, A Ni₄O₄-cubane-squarate coordination framework for molecular recognition, *Nature Communications*, 15 (2024) 9911.
5. Boyu Liu, Xiaonan Wu, Qiang Liu, Youjin Gong, Songzhu Qi, **Siqi Dong**, Zhenghao Mao, Shunshun Xiong*, Sheng Hu*, Suitable Pore Confinement with Multiple Interactions in a Low-Cost Zeolitic Imidazolate Framework for Efficient Xe Capture and Separation, *Separation and Purification Technology*, 354 (2025) 128868.