Xiaogang Jin

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Location: Shanghai, China **Date of birth**: 10/Apr/2000

Education and Research Interests

2021.09-2026.06
Ph.D. Candidate, Chemical Engineering and Technology
East China University of Science and Technology
2017.09-2021.06
B.Eng, Chemical Engineering and Technology
Chongqing University of Technology
Research Interests
Nanofiltration membrane, Water transport, ion separation, Metal-organic frameworks, Molecular dynamics simulation

Publications (Google Scholar)

[1] **Jin, X.-G.** *et al.* Enhanced Thin-Film Composite Nanofiltration Membranes via Substrate Pore Structure Engineering: Performance and Mechanistic Insights. *Environ. Sci. Technol.* **59**, 15538–15546 (2025).
[2] **Jin, X.-G.** *et al.* Ionic liquids tailored ultra-permeable antifouling nanofiltration membranes for water purification. *Journal of Membrane Science* **696**, 122536 (2024).
[3] **Jin, X.-G.** *et al.* Development of high permeability nanofiltration membranes through porous 2D MOF nanosheets. *Chemical Engineering Journal* **471**, 144566 (2023).
[4] **Jin, X.-G.** *et al.* Crown ether modulated high-performance nanofiltration membrane for water purification. *Chemical Engineering Science* **280**, 119064 (2023).
[5] Lim, H. Y., **Jin, X.-G.**, Ma, X.-H. & Xu, Z.-L. Molecular hybridization enhanced polyamide nanofiltration membranes for antibiotic desalination. Journal of Membrane Science **731**, 124225 (2025).

Academic Conference

National Conference of Young Scientists in Membrane Technology
Convenor of the Sessional Forum
"MOF Nanosheet Reinforced Polyamide Nanofiltration Membrane Enables Ultrafast Water Transport", Shaoxing, Zhejiang, Oct. 25, 2024

Honors and Awards (Selective)

- 2025 Outstanding doctoral candidate training program
- 2024 First-class academic scholarship, Outstanding student
- 2023 National scholarship, First-class academic scholarship, Outstanding student
- 2022 First-class academic scholarship, Outstanding student
- 2021 Chongqing outstanding graduate

Language and Skills

- English: CET-6, Chinese: Native
- Molecular dynamics simulation, Membrane preparation, Membrane performance test, Characterization technology, Python