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个人简历

2023. 01– 至今 华东理工大学，化工学院，教授
2015. 09–2022. 12 华东理工大学，化工学院，副教授
2012. 03–2015. 08 华东理工大学，化工学院，讲师
2016. 02–2018. 02 香港大学，博士后（合作导师：汤初阳教授）
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研究方向

1、微纳膜结构及膜过程调控
2、膜材料 3D 打印技术
3、分子辨识分离工程
主要研究包括：反渗透、渗透汽化、催化膜反应器、电子化学品纯化等。

研究成果及主要发表文章

1. Jia-Hao Liu, Fei Xie, Han-Zhuo Ding, Jia-Wei Mo, Xiao-Gang Jin, Xiao-Hua Ma*, Zhen-Liang Xu. Evading the permeance-selectivity trade-off dilemma in electrospray-assisted interfacial polymerization polyamide thin-film composite membrane through electrospinning nanofibers interlayer. Desalination, 2023, 558, 116625.

2. Jiawei Mo, Shuai Wang, Fei Xie, Shanshan Liang*, and Xiao-Hua Ma*. Double cross-linked MoS2 intercalation GO membrane: towards high stability and high permeability, Sep. Purif. Technol., 2023, 314, 123523.

3. Wei Huang, Ziyin Wang, Fei Xie, Hanzhuo Ding, Wenxuan Li, Xiaokang Liang, Xiaohua Ma*, Zhenliang Xu. High performance polyamide TFC reverse osmosis membrane fabricated on co-deposition hydrophilic modified polyethylene substrate. Desalination, 2022, 538, 115909.

4. Zi-Yin Wang, Fei Xie, Han-Zhuo Ding, Wei Huang, Xiao-Hua Ma*, Zhen-Liang Xu. Effects of locations of cellulose nanofibers in membrane on the performance of positively charged membranes, J. Membr. Sci., 2022, 652, 120464.

5. Han-zhuo Ding, Fei Xie, Zi-yin Wang, Wei Huang, Xiao-hua Ma*, Zhen-liang Xu. 2D nanosheets optimized electrospray-assisted interfacial polymerization polyamide membrane with excellent separation performance. J. Membr. Sci., 2022, 647, 120308.

6. Dovletjan Taymazov, Hao Zhang, Wen-Xuan Li, Ping-Ping Li, Fei Xie, Xin-Yu Gong, Sheng-Ning Zhang, Xiao-Hua Ma*, Zhen-. Xu. Construction of MoS2 hybrid membranes on ceramic hollow fibers for efficient dehydration of isopropanol solution via pervaporation. Sep. Purif. Technol., 2021, 277(24): 119452.

7. Wen-Xuan Li, Zhe Yang, Wei-Liang Liu, Zhi-Hao Huang, Hao Zhang, Meng-Ping Li, Xiao-Hua Ma*, Chuyang Y. Tang, Zhen-Liang Xu. Polyamide reverse osmosis membranes containing 1D nanochannels for enhanced water purification. J. Membr. Sci., 2021, 618, 118681.

8. Hao Zhang, Xin-Yu Gong, Wen-Xuan Li, Xiao-Hua Ma*, Chuyang Y. Tang, Zhen-Liang Xu. Thin-film nanocomposite membranes containing tannic acid-Fe3+ modified MoS2 nanosheets with enhanced nanofiltration performance. J. Membr. Sci., 2020, 616, 118605.

9. Xin-Yu Gong, Zhi-Hao Huang, Hao Zhang, Wei-Liang Liu, Xiao-Hua Ma*, Zhen-Liang Xu, Chuyang Y. Tang. Novel high-flux positively charged composite membrane incorporating titanium-based MOFs for heavy metal removal. Chem. Eng. J., 2020, 398, 125706.

10.Meng-Ping Li, Xin Zhang, Hao Zhang, Wei-Liang Liu, Zhi-Hao Huang, Fei Xie, Xiao-Hua Ma*, Zhen-Liang Xu. Hydrophilic yolk-shell ZIF-8 modified polyamide thin-film nanocomposite membrane with improved permeability and selectivity. Sep. Purif. Technol., 2020, 247, 116990.

11.Xin Zhang, Meng-Ping Li, Zhi-Hao Huang, Hao Zhang, Wei-Liang Liu, Xin-Ru Xu, Xiao-Hua Ma*, Zhen-Liang Xu*. Fast surface crosslinking ceramic hollow fiber pervaporation composite membrane with outstanding separation performance for isopropanol dehydration. Sep. Purif. Technol., 2020, 234, 116116.