CURRICULUM VITAE

**Personal Information**

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Address: 66 Changjiang Rd, Huangdao Dist, Qingdao, China

**Education and Work**

* 09/2022 - present, doctoral candidate. in Carbon Capture Technology by Membrane

China University of Petroleum (East China), Qingdao, China

* 11/2021 - 8/2022, material engineer in research on Reverse Osmosis Membrane

Nitto (Qingdao) Research Institute Co., Ltd., China

* 09/2020 - 10/2021, Chemical Engineer in Polypropylene production process

Jinneng Chemical (Qingdao) Co., LTD, Qingdao, China

* 09/2017 - 06/2020, M.S. in Chemical Engineering

China University of Petroleum (East China), Qingdao, China

* 09/2013 - 06/2017, B.S. in Polymer materials and science

Shandong University of Science and Technology, Qingdao, China

**Language level**

* CET-4 450
* CET-6 476

**Research Filed**

* Surface modification of PIM-1 membrane for carbon capture.
* Carbon capture membrane was prepared by mixed matrix membrane.
* Preparation of anti-fouling reverse osmosis membrane by grafting method.
* Preparation of anti-fouling oil-water separation membrane.

**Publications**

**Articles:**

* **Zewen Xu**, Zhongyi Ren, Haojiang Zhu, Hao Guo, Xinliang Liu, Ming Wang, Yingfei Hou. Constructing robust and anti-fouling superwettable membrane with layer-by-layer assembly of Fe(OH)3 colloid. Journal of Membrane Science. 694 (2024).
* Zhe Zhai, **Zewen Xu**, Q.Jason. Niu. Boosting the performance of reverse osmosis membrane by macrocyclic molecule through interfacial coordination-driven strategy. Journal of Membrane Science. 689 (2024).
* **Zewen Xu**, Ming Wang, Qiang Wang. Yingfei Hou. Recent advances in amine-rich membrane for CO2 separation. Chemical Industry and Engineering Progress. [J/OL](**徐泽文**，王明，王强，侯影飞．胺基材料在二氧化碳分离膜领域研究进展 [J/OL]．化工进展.)
* Ming Wang, **Zewen Xu**, Yaoli Guo, Yingfei Hou, Peng Li, Q.Jason Niu. Engineering a superwettable polyolefin membrane for highly efficient oil/water separation with excellent self-cleaning and photo-catalysis degradation property. Journal of Membrane Science. 611 (2020) 118409.
* Haixiang Sun, Shengchao Zhao, Yuhui Niu, Kun Wang, **Zewen Xu**, Bingxin Wei, Peng Li, Yingfei Hou. Facile surface amination strategy of PIM-1 based membranes for efficient CO2 capture. Separation and Purification Technology. 331 (2024).

**Awards and Scholarships**

* Outstanding graduate student (top 5%)
* Graduate Student Scholarship 2018 (second prize, top 30%)
* Graduate Student Scholarship 2017 (first prize, top 15%)

**Research Experience**

**1. Engineering a** **superwettable polyolefin membrane for highly efficient oil/water separation with excellent self-cleaning and photo-catalysis degradation property.** (09/2018-06/2020)

* Preparation of the superwettable polyolefin membrane
* Characterization of the superwettable polyolefin membrane
* Research results produced one published journal article

**2. Preparation of anti-fouling reverse osmosis membrane** **by grafting method.** (11/2021-06/2022)

* Preparation of anti-foulingreverse osmosis membrane by grafting
* Test the anti-fouling property of the grafting membrane
* Project conclusion to membrane division of Nitto group

**3. modified PIM-1 membrane for carbon capture.**(03/2023-01/2024)

* Preparation of modified PIM-1 membrane by surface modification, MMMs, and molecular chain design
* Characterization of the modified PIM-1 membrane
* Progress research published a review article
* First draft of research results was completed