

Enhanced desulfurization performance of ZIF-8/PEG MMMs: Effect of ZIF-8 particle size

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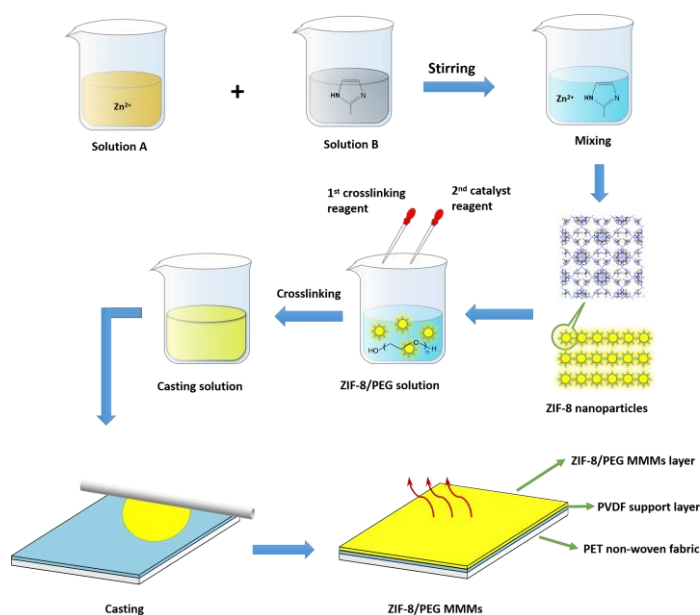


Fig.S1 Scheme diagram of preparation process of ZIF-8/PEG MMMs

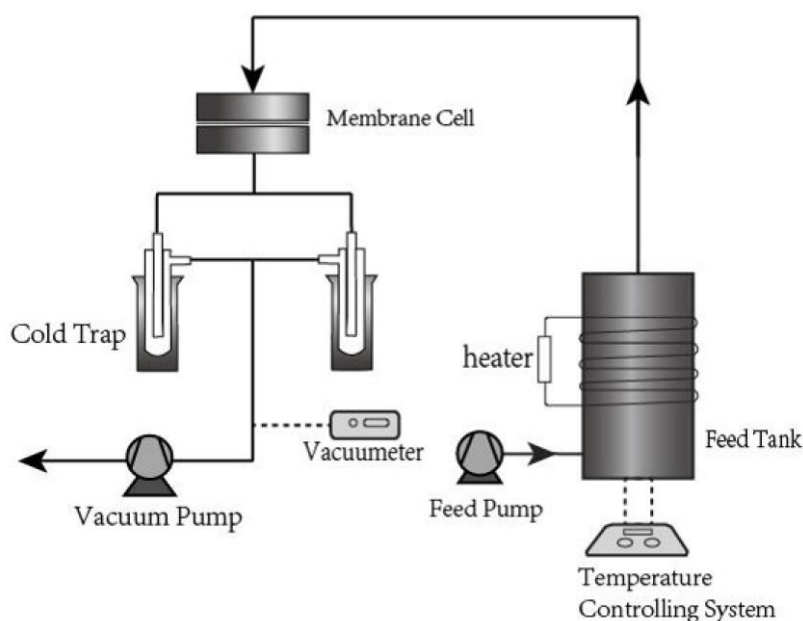


Fig.S2 Scheme diagram of pervaporation apparatus

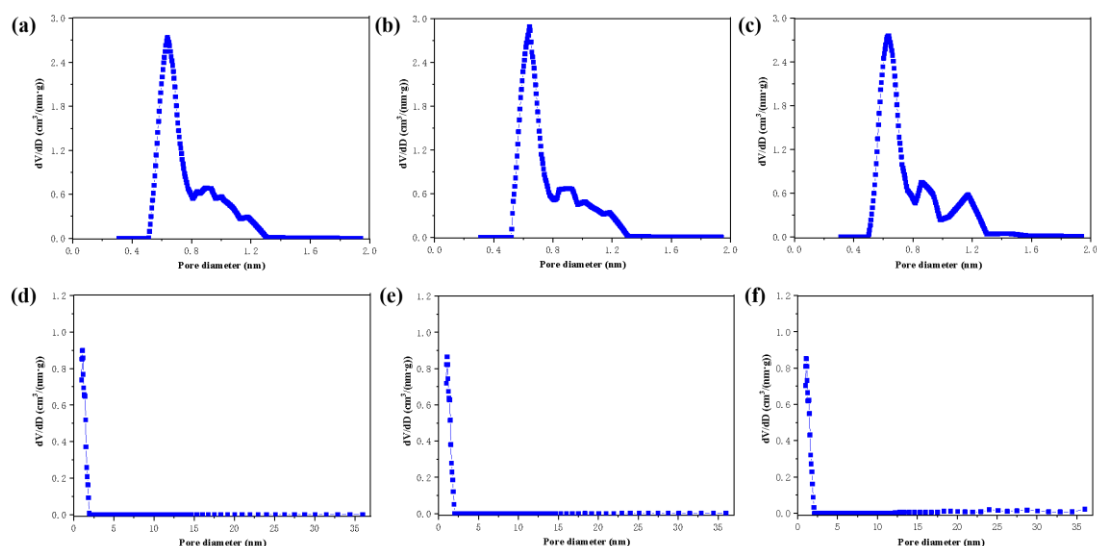


Fig.S3 Pore diameter distribution of ZIF-8 particles via HK(up) and DFT(down) analysis (a,d)ZIF-8-L; (b,e)ZIF-8-M; (c,f)ZIF-8-S

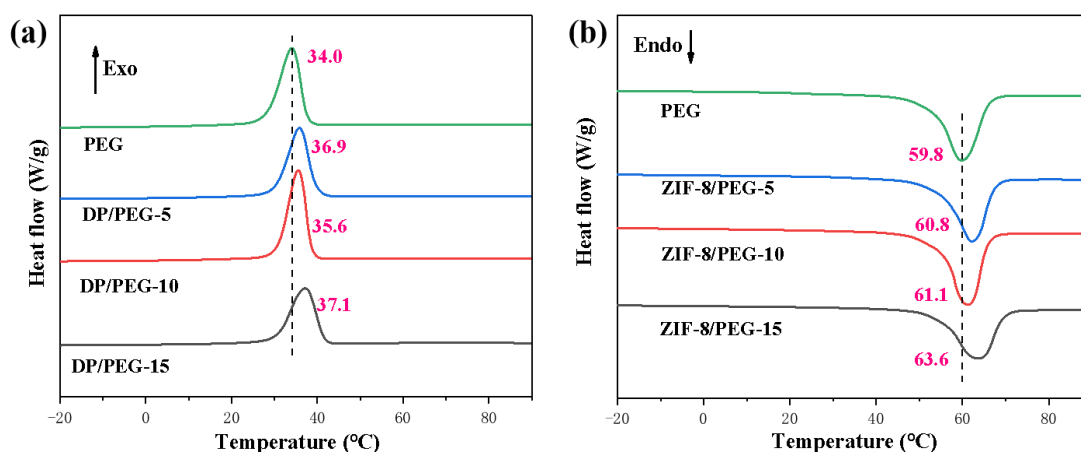


Fig.S4 DSC spectra of ZIF-8/PEG MMMs(a) Crystallization spectra (b) Melting spectra

Table S1 Synthesis conditions for ZIF-8 nanoparticle of different particle size

	ZIF-8(L)	ZIF-8(M)	ZIF-8(S)
Zn ²⁺ concentration(mmol)	0.01	0.01	0.01
Hmim concentration(mmol)	0.02	0.03	0.04
Solvent	Methanol	Methanol	Methanol
Reaction time(h)	24	24	24
Particle size(nm)	~610	~270	~80