

Electronic Supplementary Information for

High-permeance metal-organic framework-based membrane adsorber for removal of dye molecules in aqueous phase

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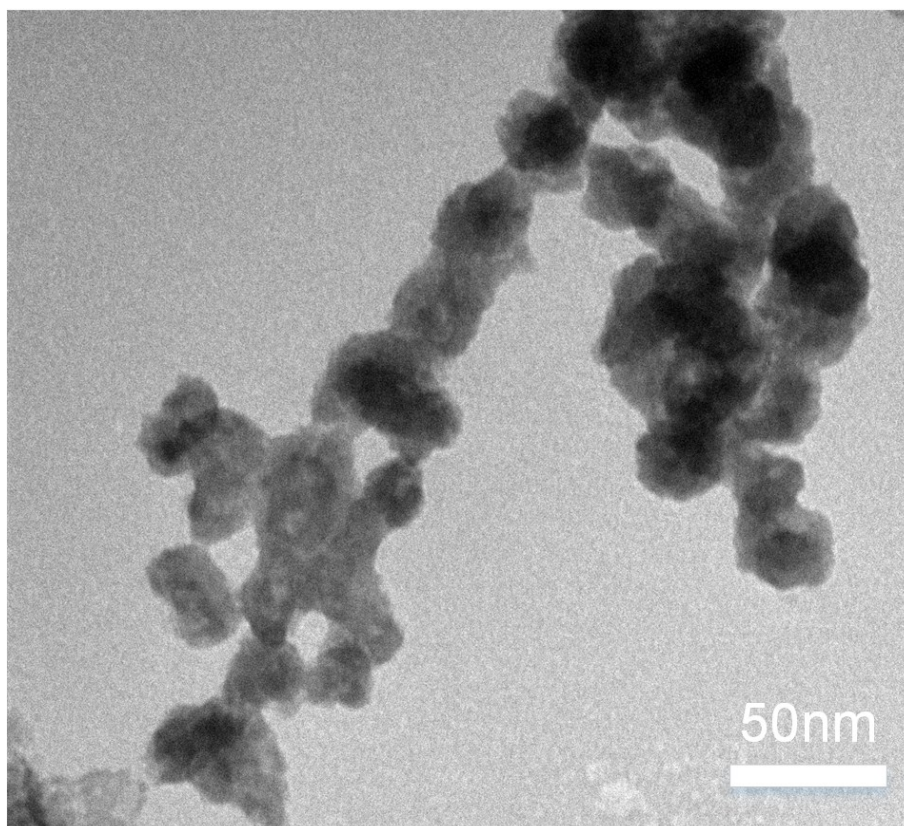


Fig. S1 TEM image of ZIF-L (CTAB, 8X).

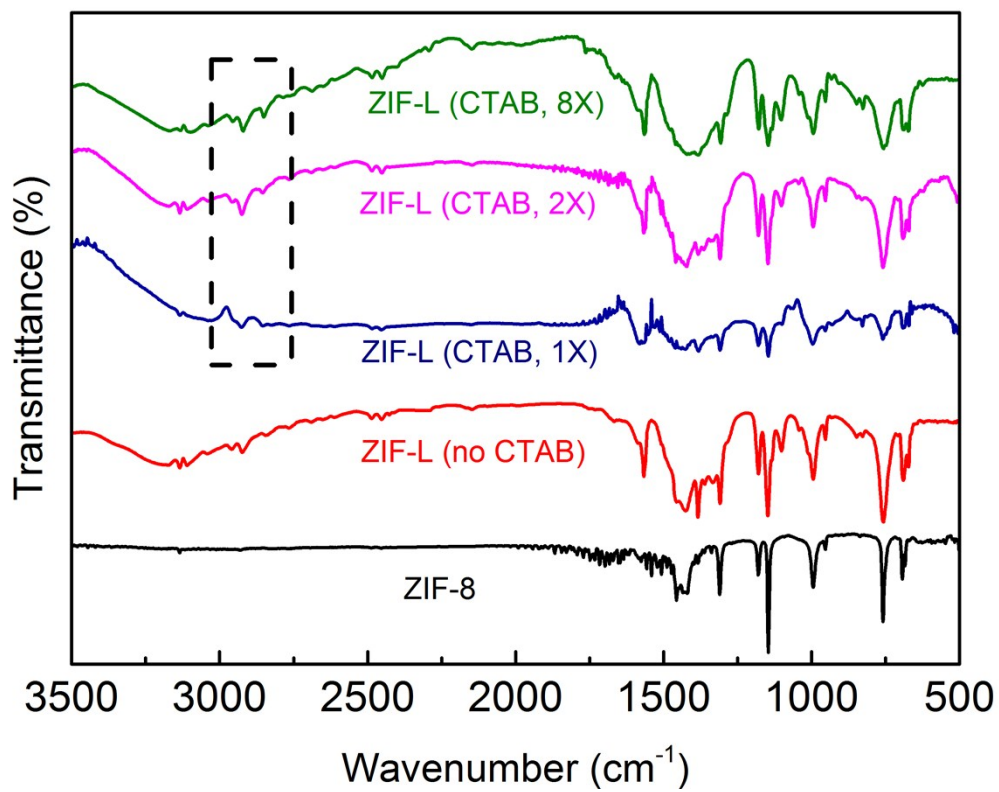


Fig. S2 FTIR spectra of powder sample of ZIF-8, ZIF-L (no CTAB), ZIF-L (CTAB, 1X), ZIF-L (CTAB, 2X), and ZIF-L (CTAB, 8X). Dashed box highlights absorption of CTAB.

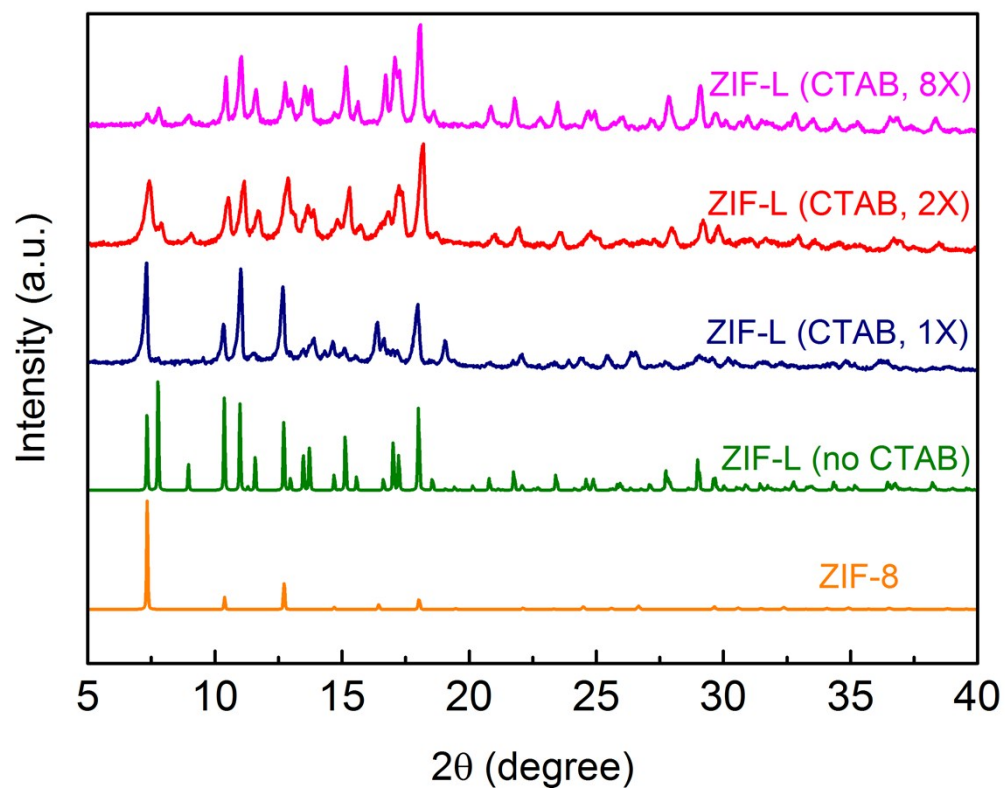


Fig. S3 Powder XRD patterns of ZIF-8, ZIF-L (no CTAB), ZIF-L (CTAB, 1X), ZIF-L (CTAB, 2X), and ZIF-L (CTAB, 8X).

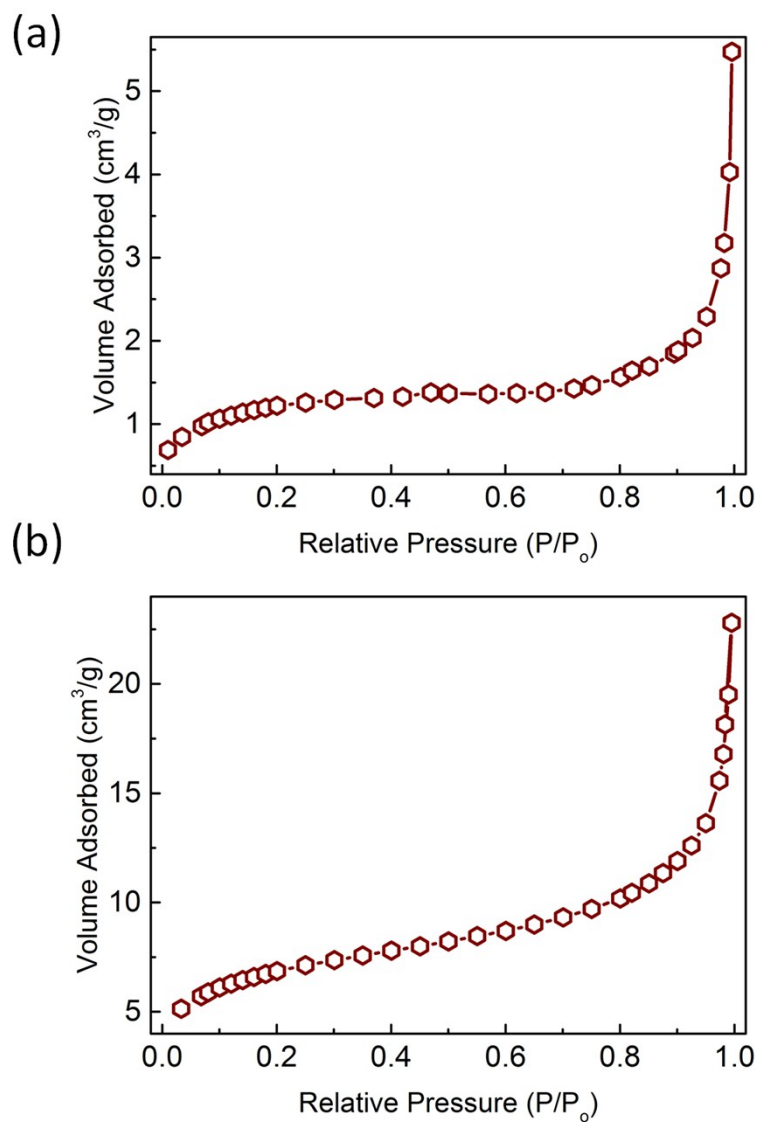


Fig. S4 Nitrogen adsorption isotherms of (a) ZIF-L (CTAB, 1X) and (b) ZIF-L (CTAB, 2X). The derived BET surface areas of ZIF-L (CTAB, 1X) and ZIF-L (CTAB, 2X) are 4.4 and 24.2 m²/g respectively.