

**Fabrication of nanocomposite membrane based on post-synthetic modification of two-dimensional metal-organic framework nanosheet**

Liyang Zhang<sup>\*1</sup> Mengchu Li <sup>1</sup> Xuanhe Wang <sup>1</sup> Xuemin Zhang <sup>1</sup> Tieqiang Wang <sup>1</sup> Fuqiang Fan <sup>1</sup> and Yu Fu<sup>\*1</sup>

E-mails: zhangliyang@mail.neu.edu.cn; fuyu@mail.neu.edu.cn

<sup>1</sup> Address: Department of Chemistry, College of Sciences, Northeastern University, Shenyang 110819, P. R. China

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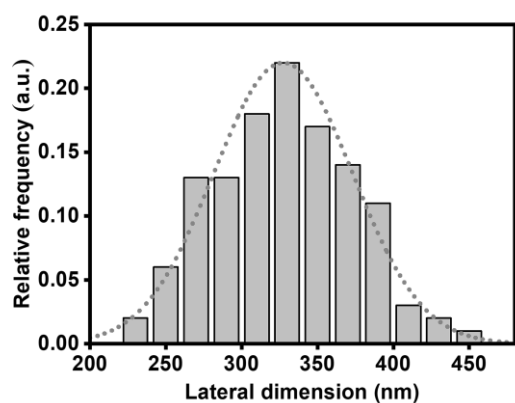


Fig. S1 Histograms of lateral dimension distribution of CuBDC-NH<sub>2</sub> according to SEM image

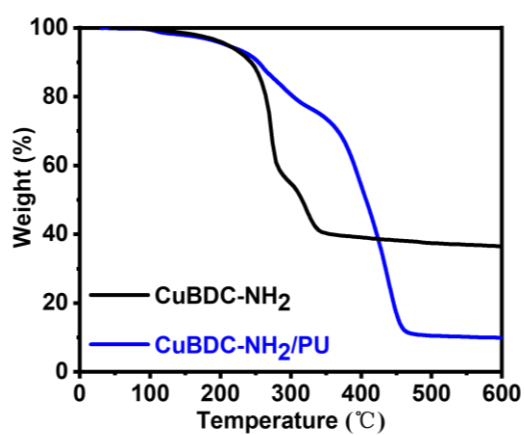


Fig. S2 TGA curves of CuBDC-NH<sub>2</sub> and CuBDC-NH<sub>2</sub>/PU

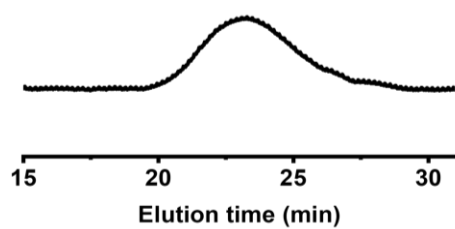


Fig. S3 GPC of the PU oligomer

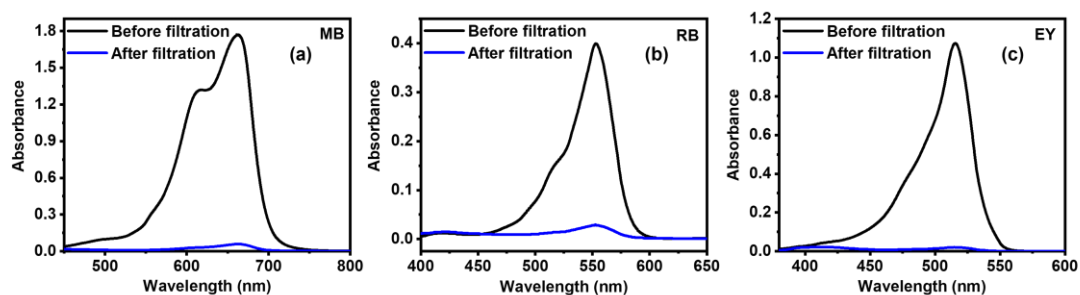
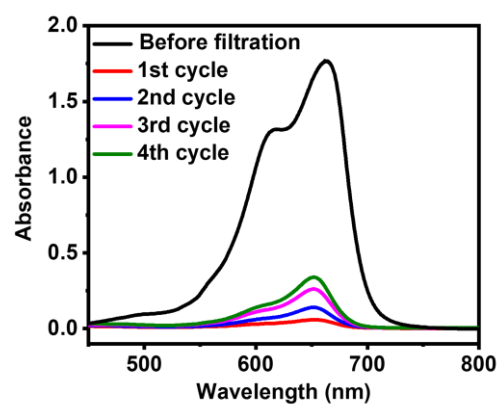


Fig. S4 UV-Vis absorption spectra of (a) MB, (b) RB and (c) EY before and after filtration with nanocomposite membrane



**Fig. S5** UV-Vis absorption spectra of MB for the cycle experiment with nanocomposite membrane