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Facile synthesis of porous porphyrin-based polymers by solvent-crosslinking method

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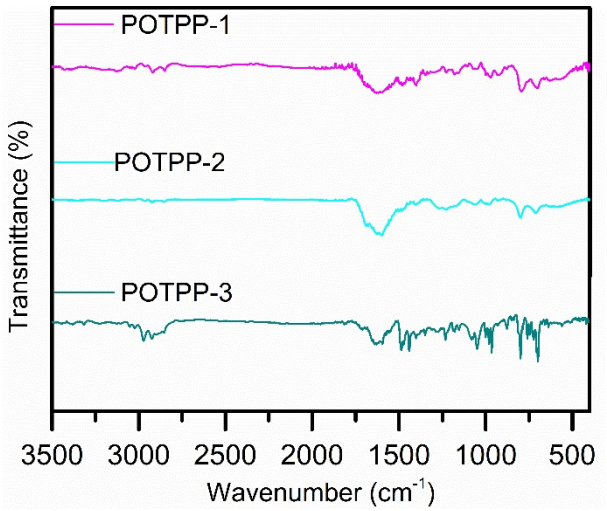

Fig. S1 FTIR spectra of the POTPPs.

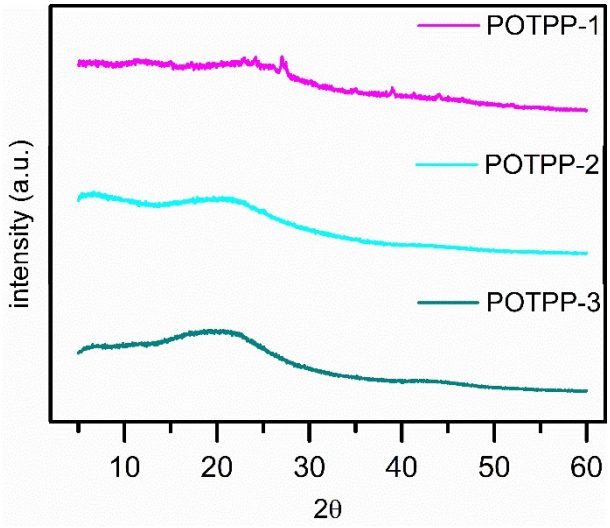

Fig. S2 Powder X-ray diffraction patterns of POTPPs

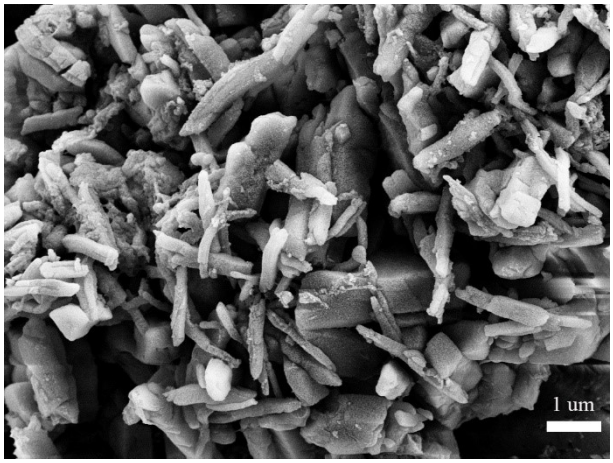

Fig. S3 Secondary electron image of POTPP-1.

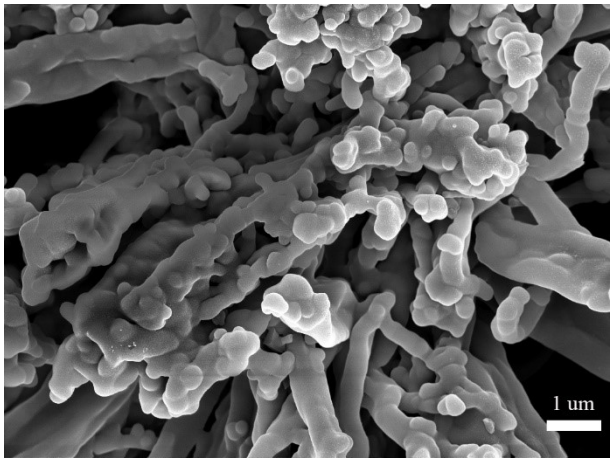

Fig. S4 Secondary electron image of POTPP-2

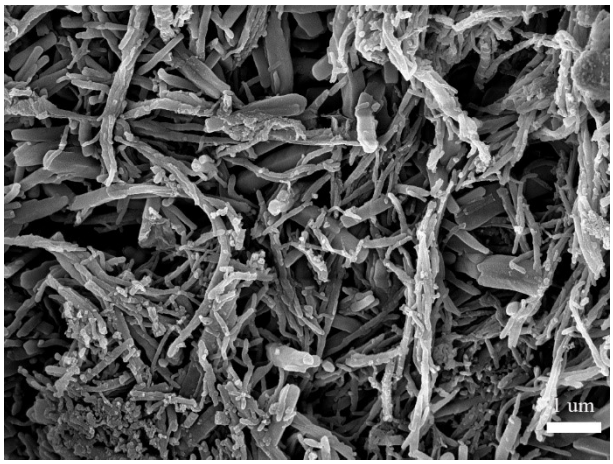

Fig. S5 Secondary electron image of POTPP-3

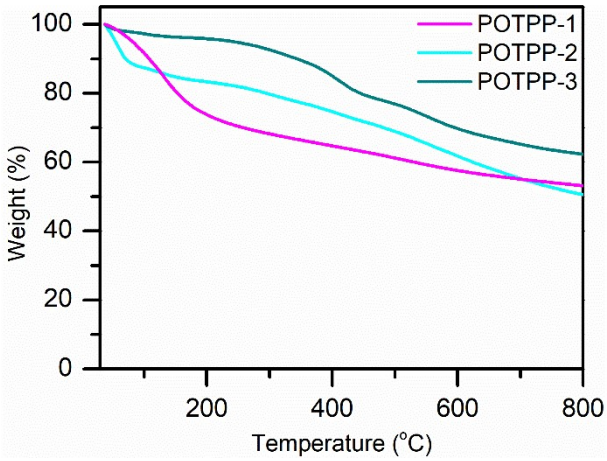

Fig. S6 TGA plots of POTPPs under nitrogen atmosphere.

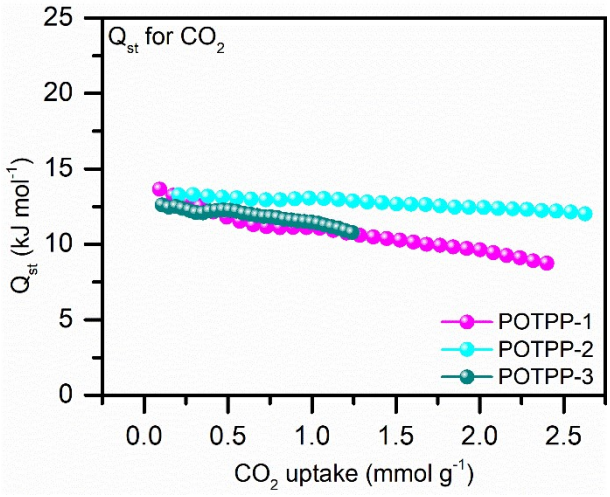

Fig. S7 Isosteric heats of adsorption for CO_2.

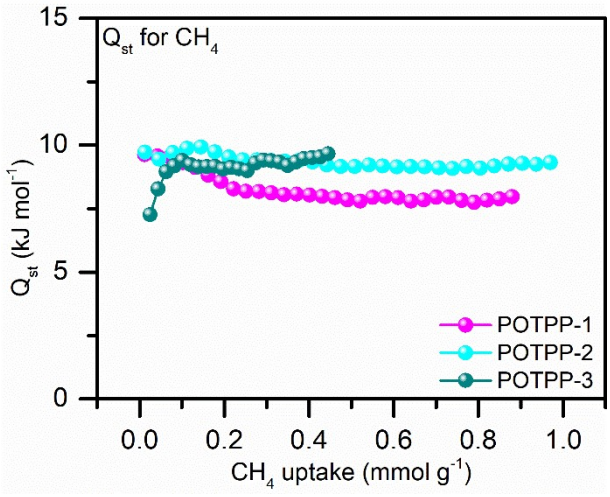

Fig. S8 Isosteric heats of adsorption for CH_4.

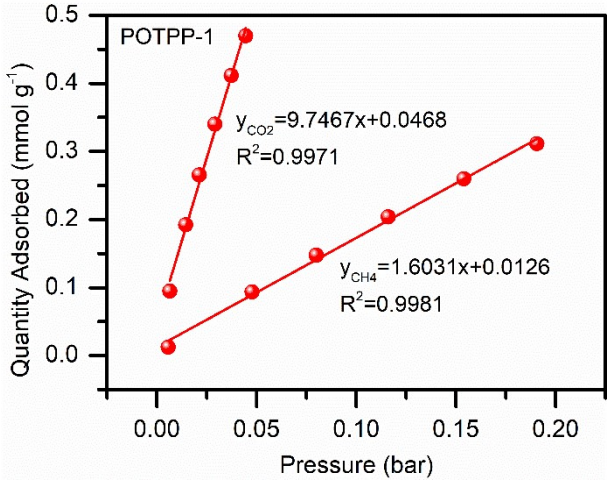

Fig. S9 Initial slope calculation of CO_2 and CH_4 uptake isotherms at 273 K for POTPP-1.

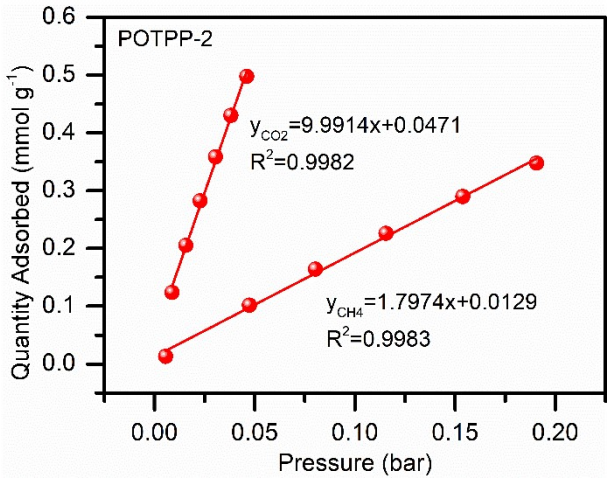

Fig. S10 Initial slope calculation of CO_2 and CH_4 uptake isotherms at 273 K for POTPP-2.

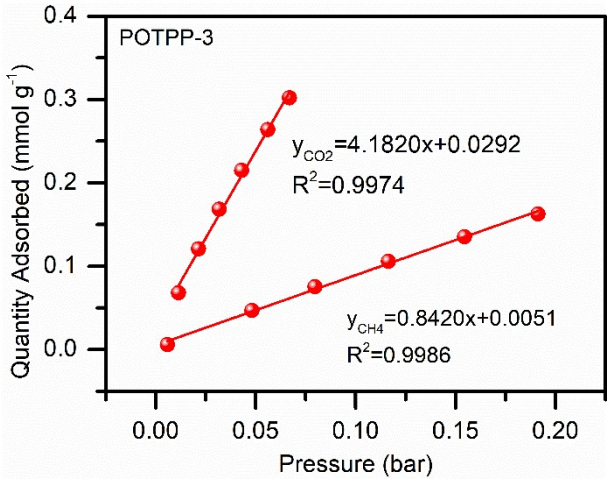

Fig. S11 Initial slope calculation of CO_2 and CH_4 uptake isotherms at 273 K for POTPP-3.