Electronic Supplementary Material (ESI) for Materials Advances.

Tailored N-doped porous carbon via a MOF assembly process for high-performance CO_2 uptake

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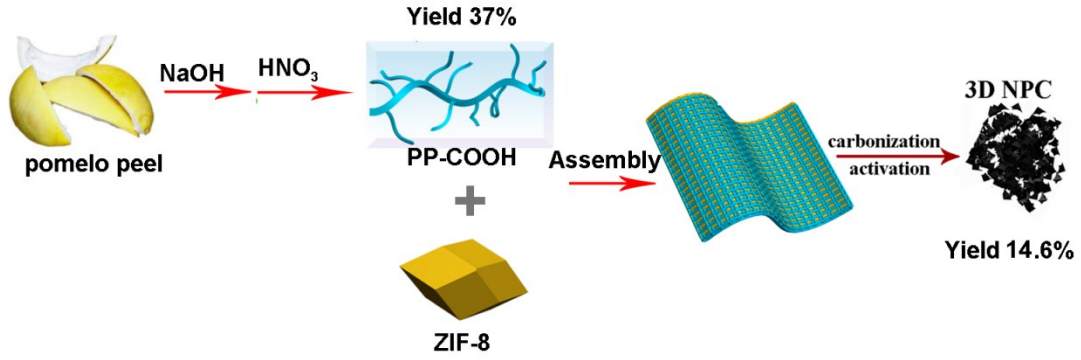

Scheme S1. The synthesis and the yield of 3D NPC

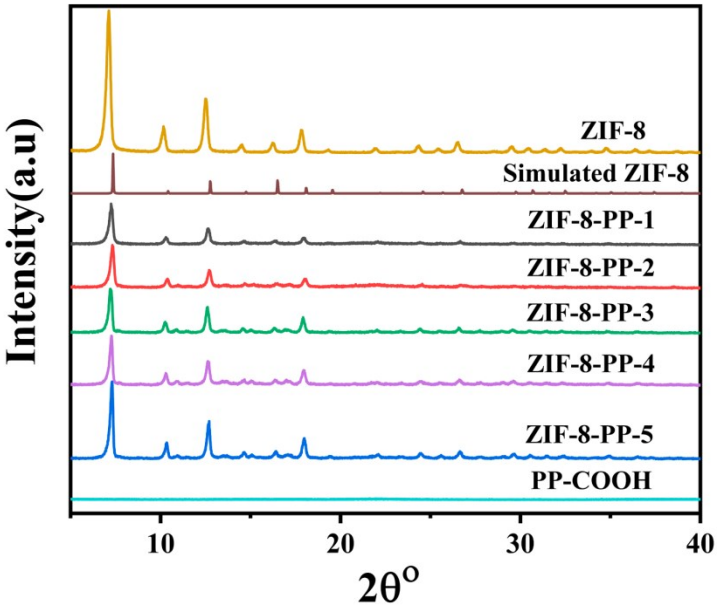

Fig. S1 XRD of ZIF-8 and ZIF-8-PP composites

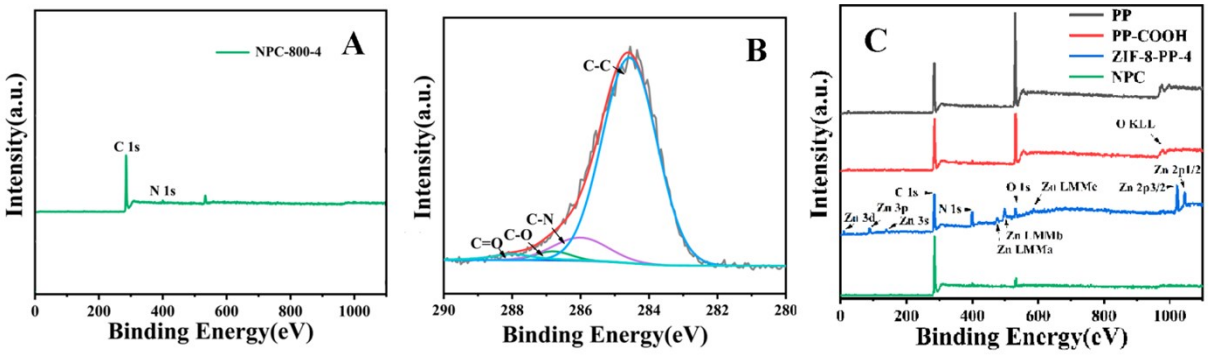

Fig. S2 (A) , (B) XPS of NPC-800-4 and (C) XPS of ZIF-8-PP composites

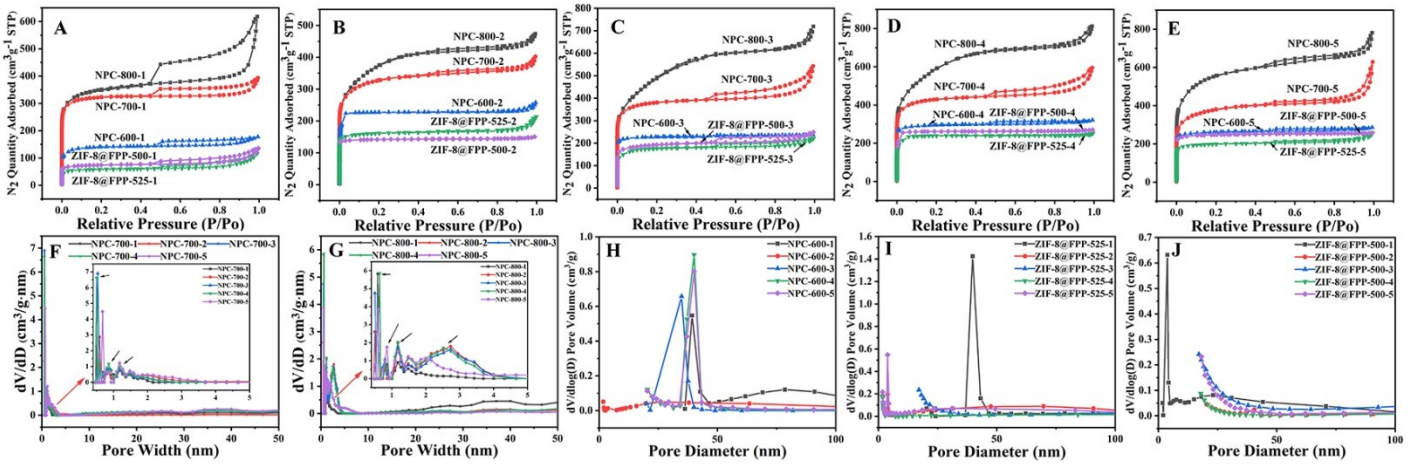

Fig.S3 The N_2 adsorption and pore size distribution of NPC and ZIF-8-PP composite

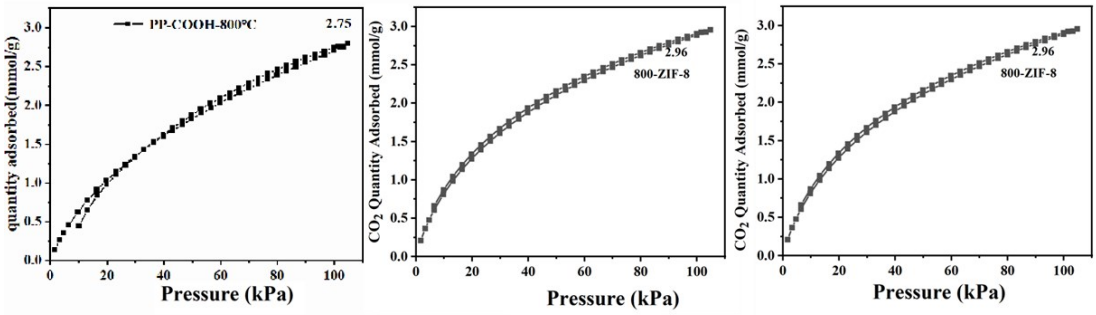

Fig. S4 The CO_2 capture of carbon derived from ZIF-8, PP-COOH and the mixture of ZIF-8 and PP-COOH at 800 ℃

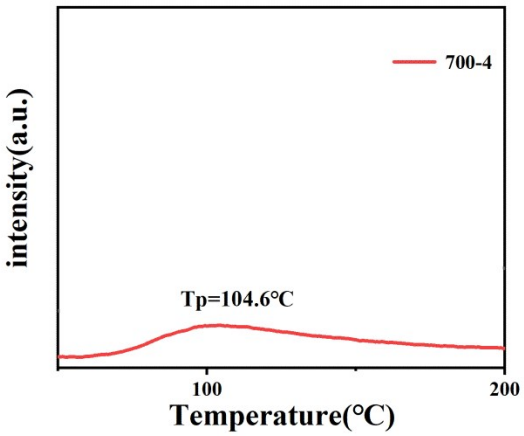

Fig. S5 The TPD of NPC-700-4

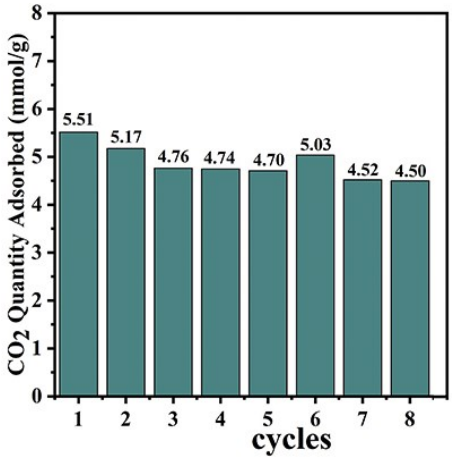

Fig. S6 8 cycles of CO_2 adsorption−desorption on NPC-800-4 at 25 °C