

Electronic Supplementary Information

Fabrication of nitrogen-doped porous carbons for highly efficient CO₂ capture: rational choice of a polymer precursor

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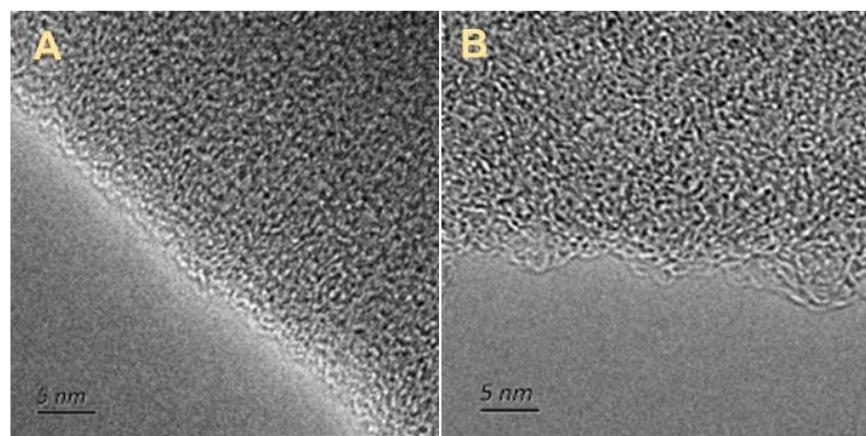


Figure S1. TEM images of the samples (A) NPC-1-600r and (B) NPC-1-600.

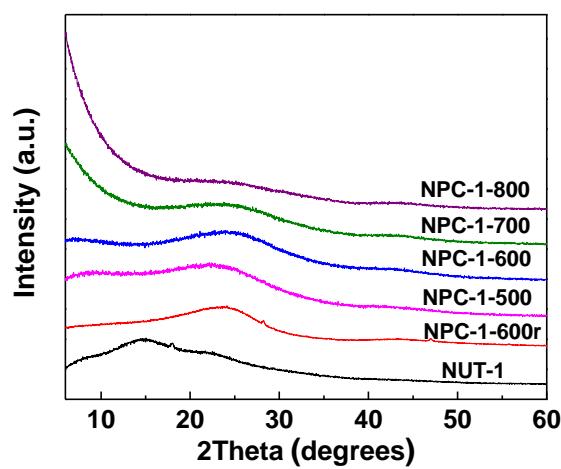


Figure S2. XRD patterns of the polymer NUT-1 and the NPCs.

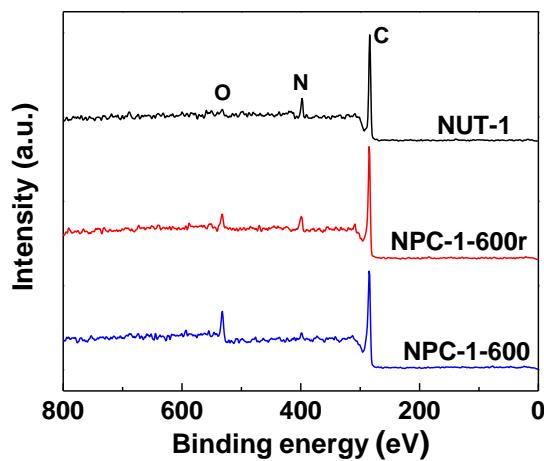


Figure S3. XPS wide spectra of the polymer NUT-1, NPC-1-600r, and NPC-1-600.

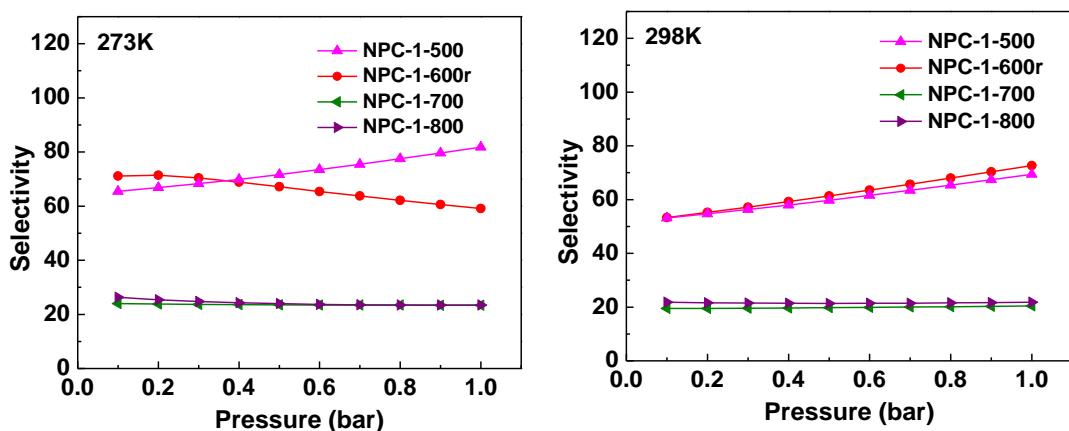


Figure S4. IAST selectivity of CO_2/N_2 on the NPCs at 273 and 298 K. The ratio of CO_2/N_2 used for simulation is 15/85.

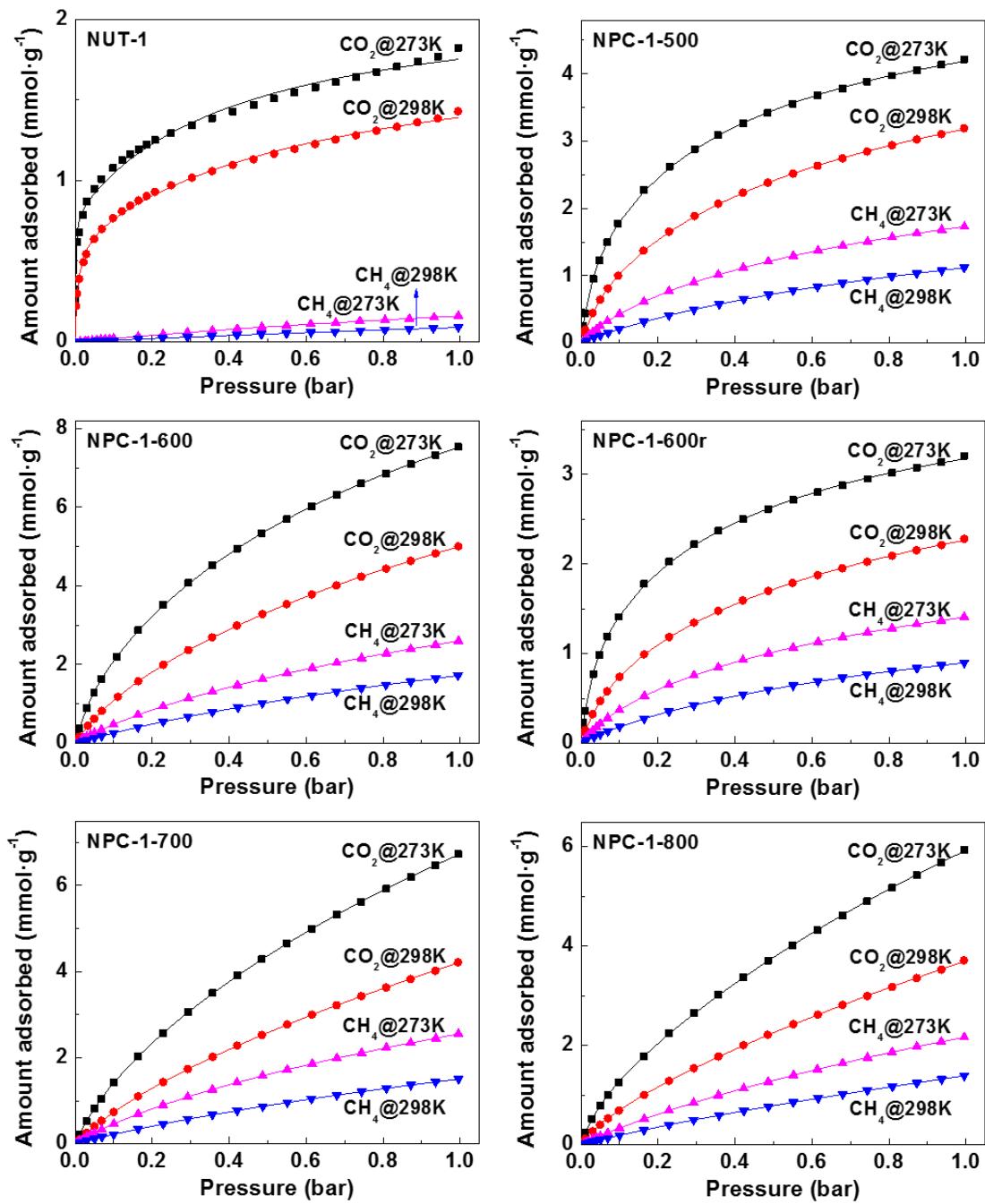


Figure S5. Adsorption isotherms of CO₂ and CH₄ over the polymer NUT-1 and the NPCs at two different temperatures 273 and 298 K.

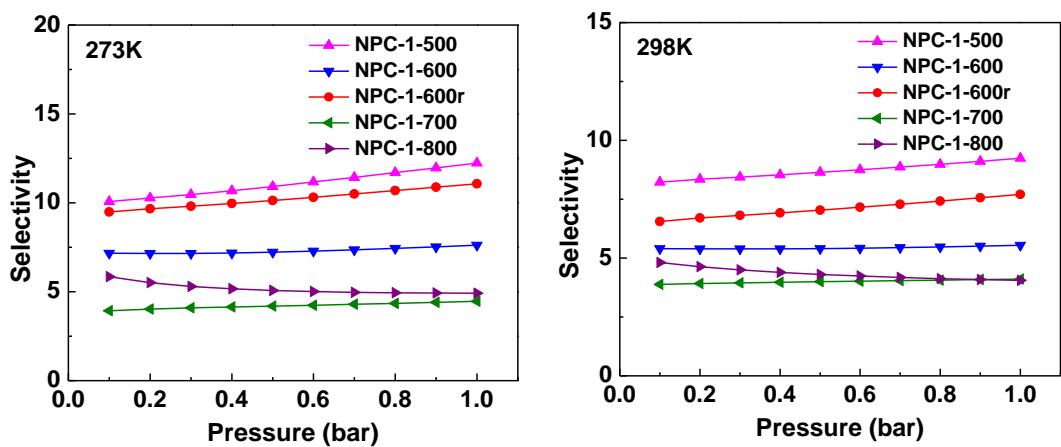


Figure S6. IAST selectivity of CO₂/CH₄ on the NPCs at 273 and 298 K. The ratio of CO₂/CH₄ used for simulation is 50/50.