

Preparation and characterization of molecularly imprinted solid amine adsorbent for CO₂ adsorption

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Table S1. Comparison of the amine density and CO₂ adsorption capacity for MIP-PEIs and MIP1.

Adsorbent	N (%)	N (mmol/g)	Q _e (mmol/g)	Ref
MIP-PEIs	15.97	11.41	6.58	This work
MIP1	1.32	0.94	0.42	Ref [18]

Q_e : equilibrium adsorption amount

Table S2 The BET surface area and pore volume of NIP-PEIs and MIP-PEIs

Adsorbent	BET surface area (m ² /g)	Pore volume (cm ³ /g)
NIP-PEIs	2.57	0.012
MIP-PEIs	4.78	0.033

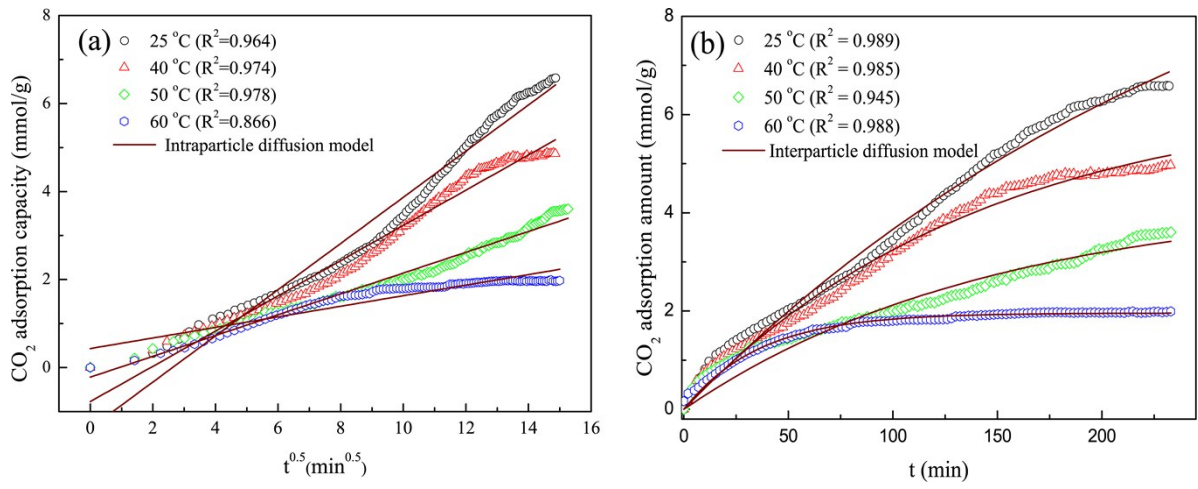


Fig. S1. The plots of diffusion models for CO₂ adsorption at different temperature (a) plots of intraparticle diffusion model for q_t against $t^{0.5}$ and (b) plots of interparticle diffusion model for q_t against t .