

Supplementary Materials: Structure Manipulation of Carbon Aerogels by Managing Solution Concentration of Precursor and Its Application for CO₂ Capture

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Table S1. Fitting parameters derived from isotherms of CA-25 sample.

Adsorbate	T (°C)	q _c (cm ³ /g)	k _c (bar ⁻¹)	R ²
CO ₂	0	88.99	3.05	0.995
	12.5	79.28	2.39	0.998
	25	72.81	1.77	0.996
N ₂	0	37.65	0.45	0.986

Table S2. Fitting parameters derived from isotherms of CA-35 sample.

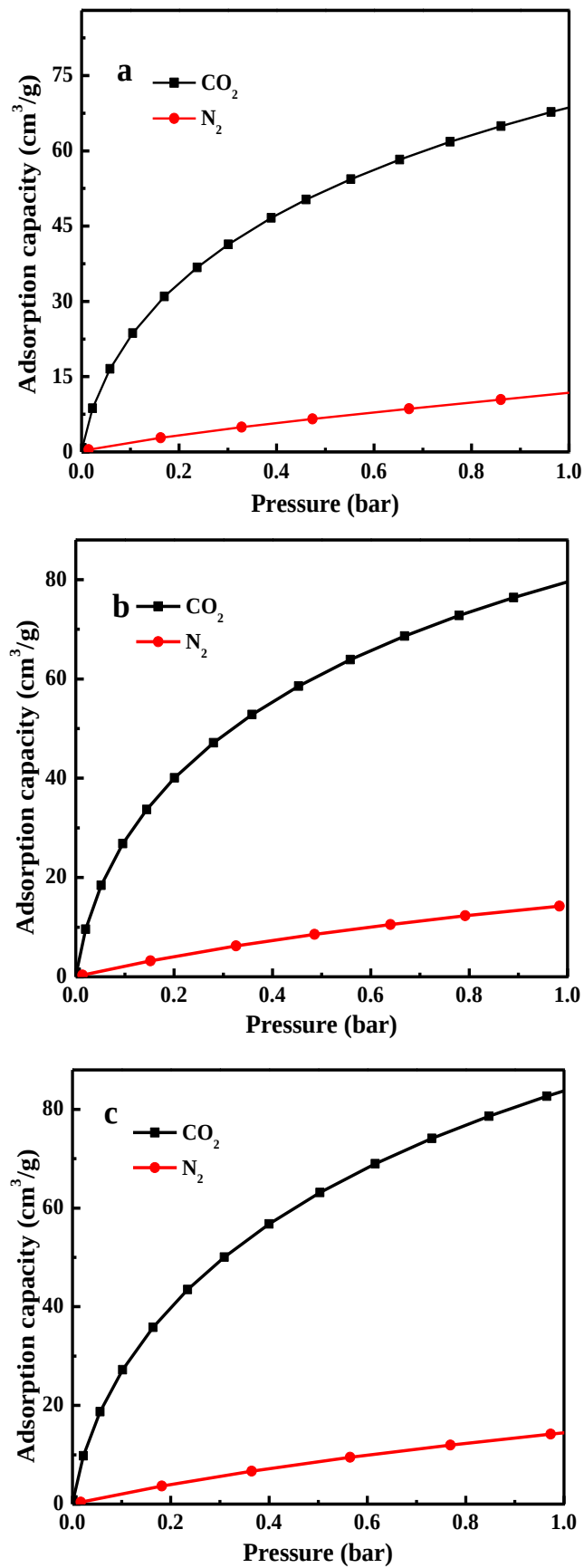
Adsorbate	T (°C)	q _c (cm ³ /g)	k _c (bar ⁻¹)	R ²
CO ₂	0	99.66	3.42	0.997
	12.5	91.30	2.81	0.998
	25	71.94	2.09	0.998
N ₂	0	39.39	0.57	0.984

Table S3. Fitting parameters derived from isotherms of CA-45 sample.

Adsorbate	T (°C)	q _c (cm ³ /g)	k _c (bar ⁻¹)	R ²
CO ₂	0	111.10	2.81	0.996
	12.5	100.21	2.39	0.997
	25	89.82	1.65	0.999
N ₂	0	44.65	0.48	0.982

Table S4. Fitting parameters derived from isotherms of CA-55 sample.

Adsorbate	T (°C)	q _c (cm ³ /g)	k _c (bar ⁻¹)	R ²
CO ₂	0	79.96	3.17	0.995
	12.5	72.73	2.65	0.994
	25	66.65	1.79	0.996
N ₂	0	30.35	0.55	0.986



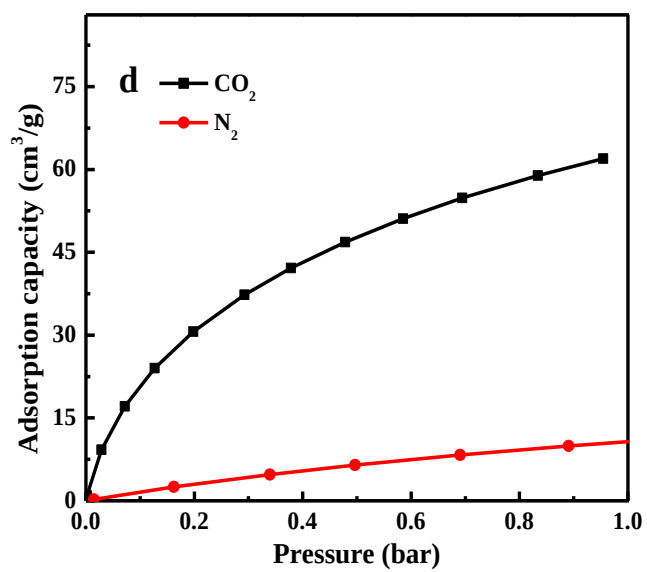


Figure S1. Adsorption isotherms of CO₂ and N₂ over (a) CA-25, (b) CA-35, (c) CA-45, (d) CA-55 sample at 0 °C.