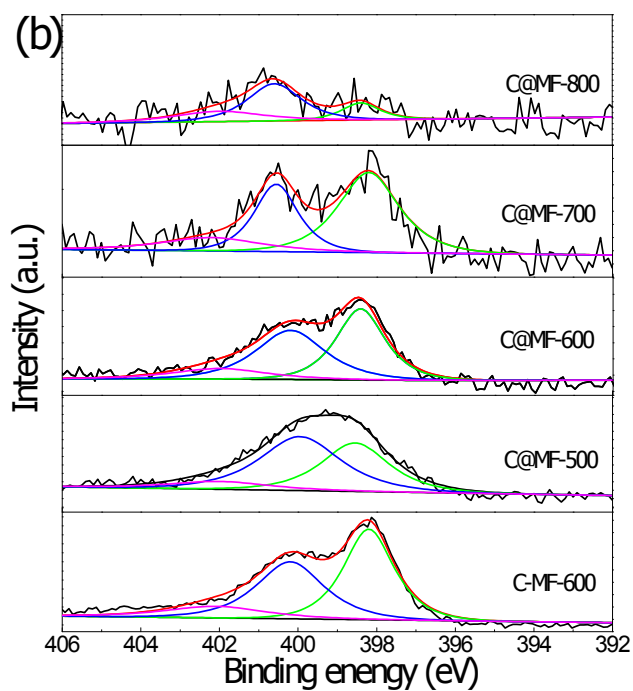
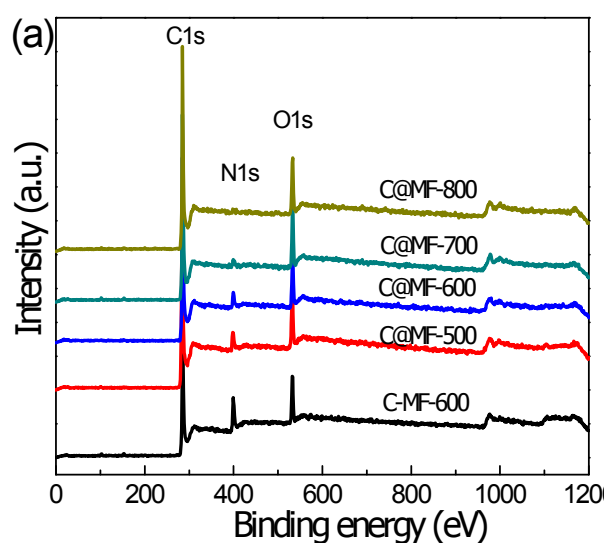


Electronic Supplementary Information

One-pot carbonization enrichment of nitrogen in microporous carbon spheres for efficient CO₂ capture

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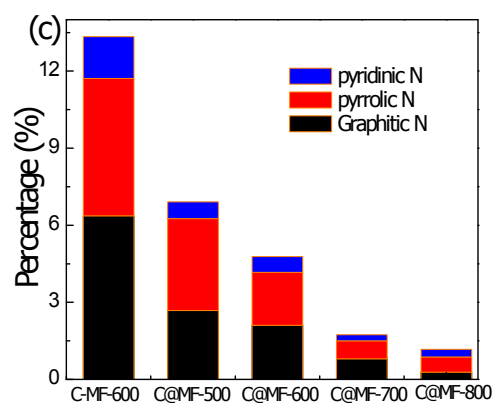


Fig. S1 (a) X-ray photoelectron survey spectra; (b) high-resolution N 1s spectra and (c) nitrogen content and different nitrogen state distributions.

Table S1. The XPS analysis of C-MF-600 and C@MF-*x* samples about the nitrogen content and the relative surface concentrations of nitrogen species obtained by fitting the N1s core level XPS spectra.

Sample	N/(C+N) (at.%)	Pyridinic N (%)	Pyrrolic N (%)	Graphitic N (%)
C-MF-600	13.34	47.8	40.0	12.2
C@MF-500	6.91	38.8	51.8	9.4
C@MF-600	4.78	44.1	43.1	12.8
C@MF-700	1.74	46.1	40.1	13.8
C@MF-800	1.17	23.1	51.4	25.5