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Importance of small micropores in CO_2 capture by phenolic resin-based activated carbon spheres

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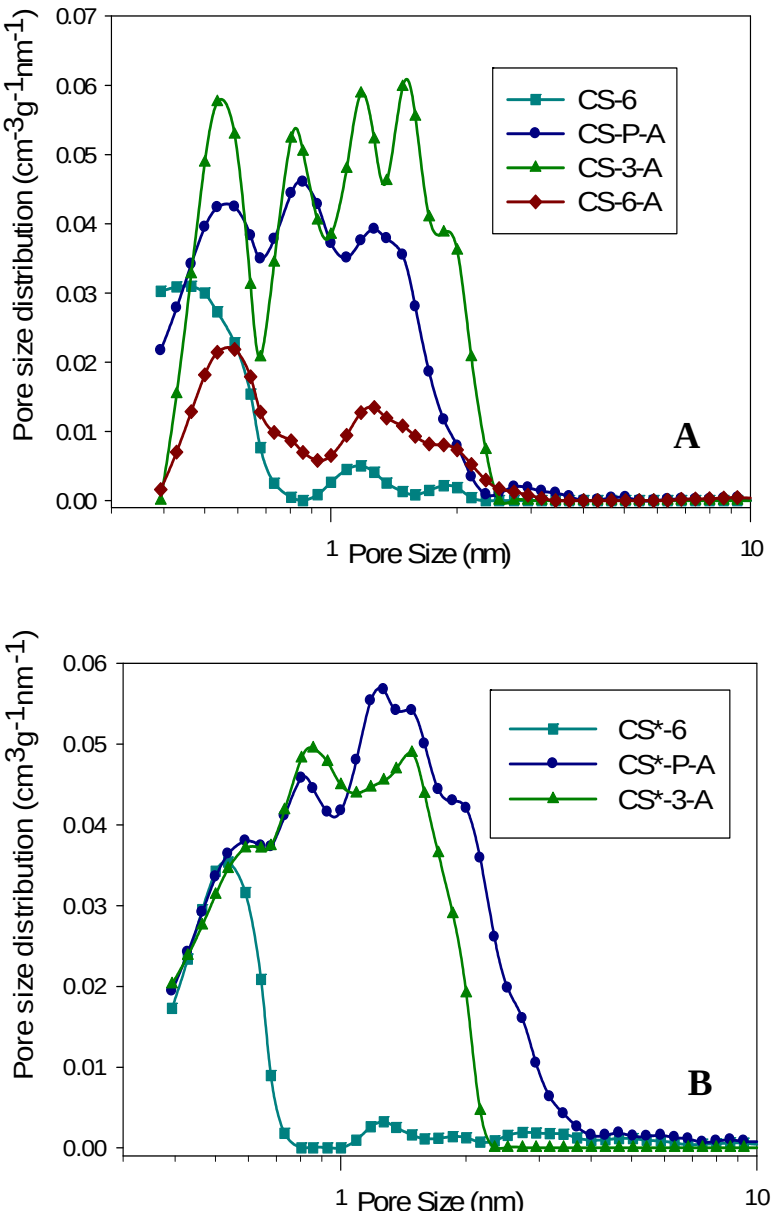

Fig. S1. The DFT pore size distributions for the CS (panel A) and CS* (panel B) samples.

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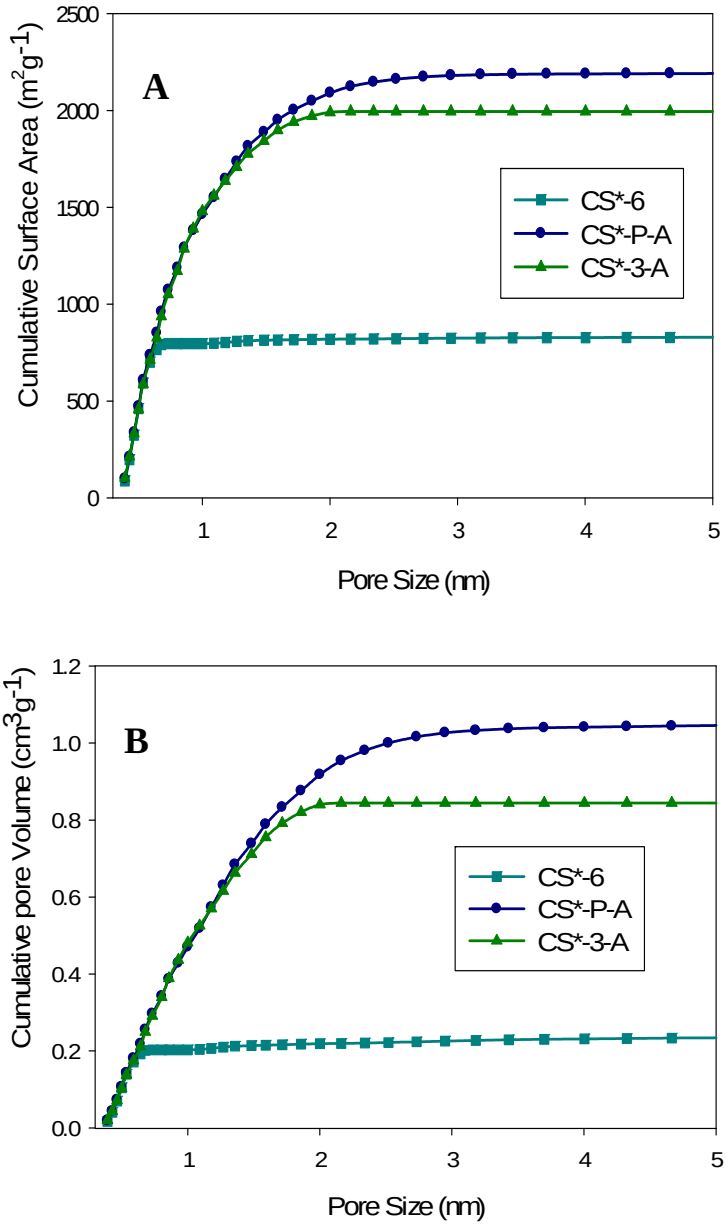

Fig. S2. The corresponding cumulative surface area (A) and pore volume (B) distributions plotted against the pore width for the CS* samples.

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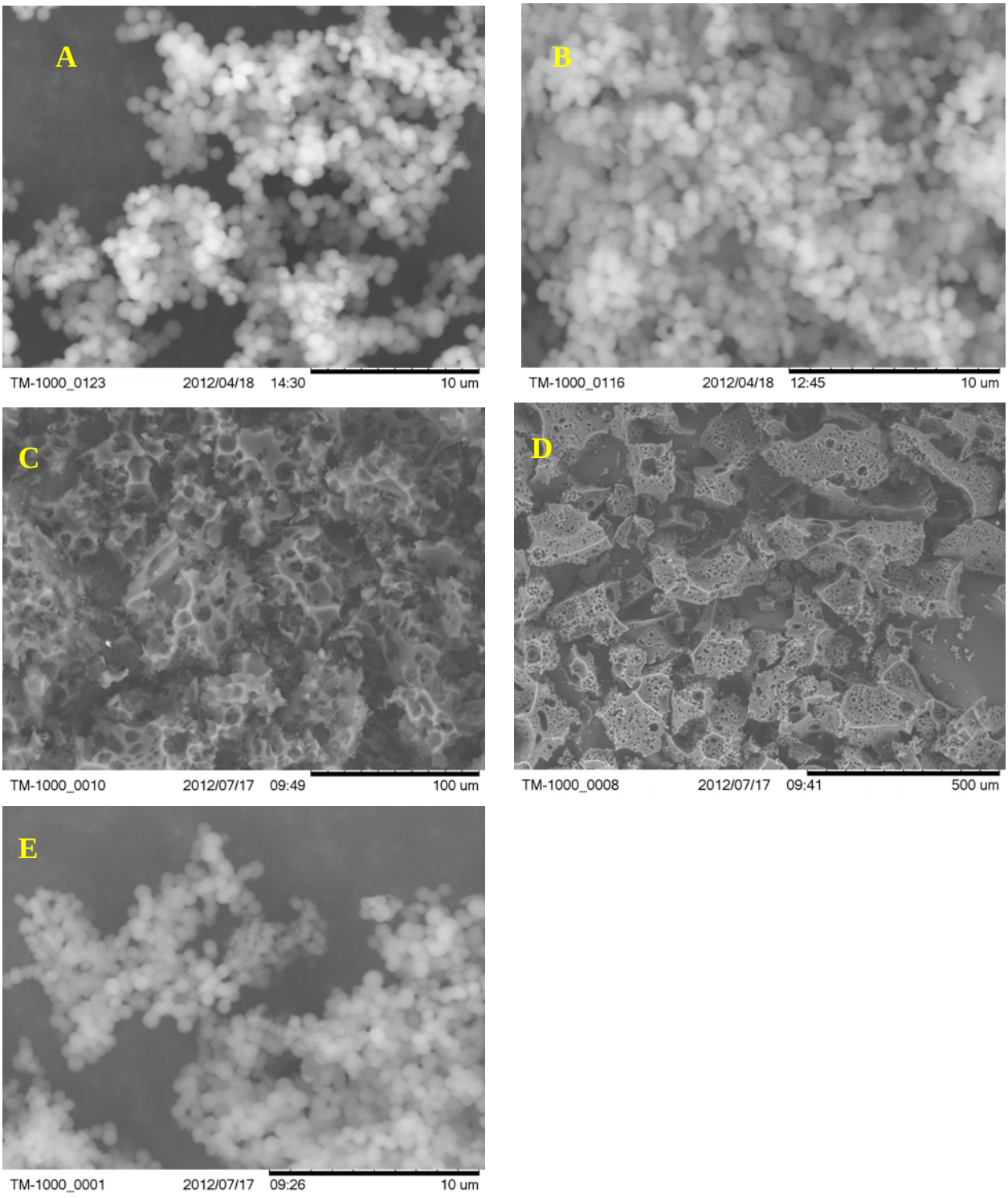

Fig. S3 SEM images of the CS materials: (panel A) PS, (panel B) CS-6, (panel C) CS-P-A, (panel D) CS-3-A, and (panel E) CS-6-A.

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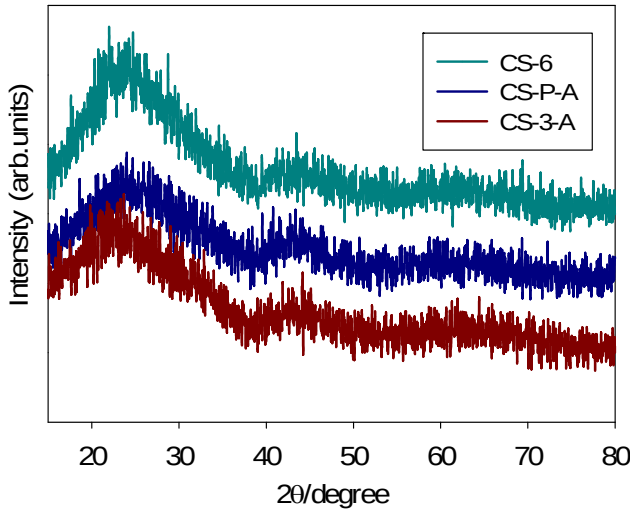

Fig. S4. Wide angle XRD patterns for selected carbons of the CS series.

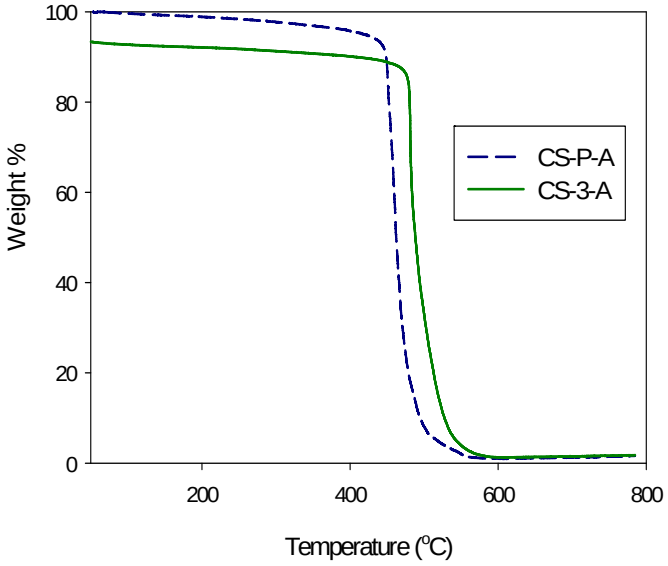

Fig. S5 . Weight change (TG) profile for the selected activated carbons.

Table S1. Cumulative pore volumes ($PV_{0.8}$) in cm^3/g calculated in the range of pore widths up to 0.8 nm for the CS samples.

CS*-6	CS*-P-A	CS*-3-A	C S-6	CS-P-A	CS-3-A
0.20	0.27	0.25	0.20	0.26	0.25