

Support information

Cu-modified biomass-derived activated carbons for high performance supercapacitors

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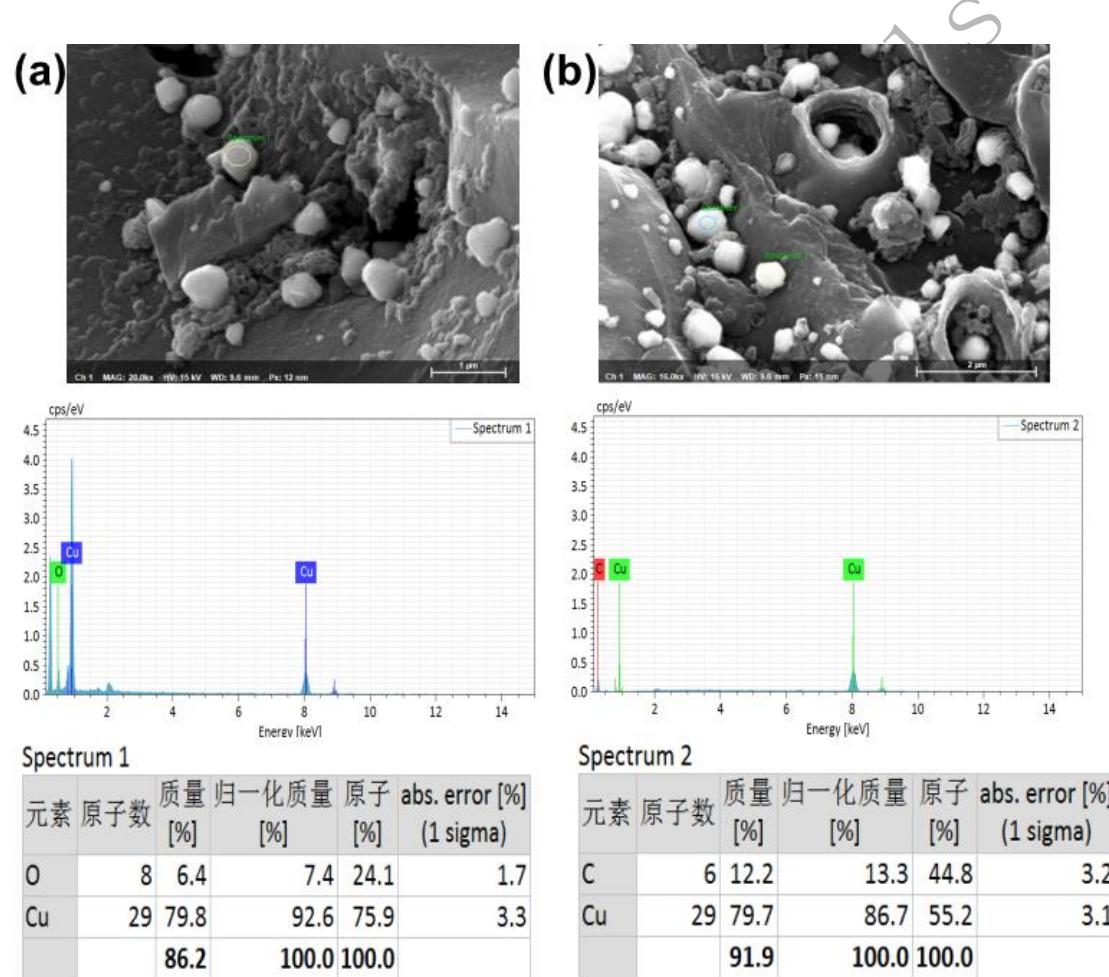


Fig. S1 EDS results of Cu-AC-1.

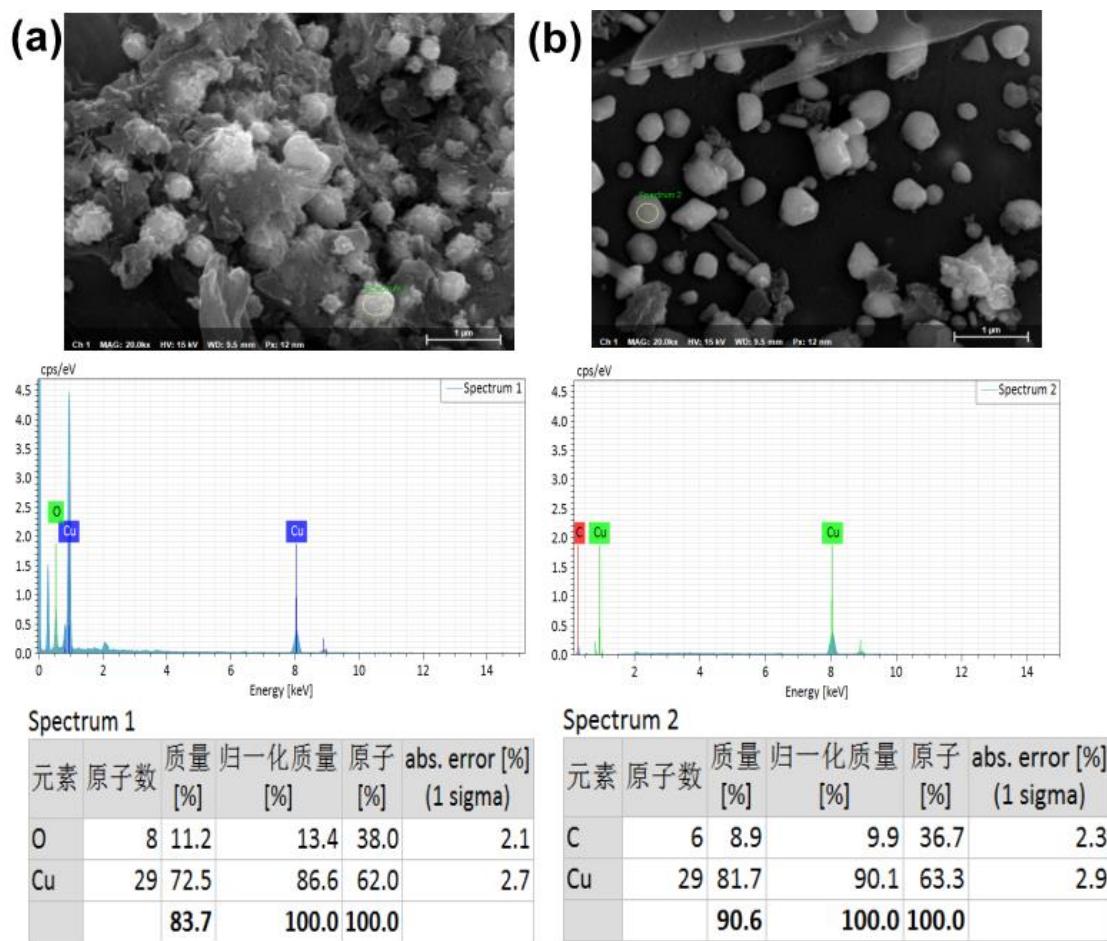


Fig. S2 EDS results of Cu-AC-2.

Table S1 A quantitative analysis of Cu⁰, Cu₂O and CuO in Cu-AC-x based on XPS results

Sample	XPS (at%)		
	Cu ⁰	Cu ₂ O	CuO
Cu-AC-1	39.9	27.7	32.4
Cu-AC-2	40.3	24.1	35.6

Table S2 ICP results of walnut shell, AC-1 and Cu-AC-x

sample	Element content (wt%)						
	Al	Ca	Fe	K	Mg	Na	Cu
walnut shell	0.07	0.15	0.05	0.26	0.04	0.05	-
AC-1	0.05	0.35	0.06	0.14	0.06	0.11	-
Cu-AC-1	0.03	0.36	0.08	0.02	0.07	0.04	11.05
Cu-AC-2	0.30	0.45	0.11	0.06	0.09	0.05	18.97