Electronic Supporting Information:

Fungi-derived hierarchically porous carbons for high-performance supercapacitors

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Fig. S1 The photograph of fresh *Agaricus* used in present research

Table S1. The contents of Nitrogen and Hydrogen elements in the fungi-based char and porous carbons.[a]

Name	C (wt%)	N (wt%)	H (wt%)	O (wt%)
char	72.93	5.55	1.67	19.85
AC-1/2	80.03	4.75	0.74	14.48
AC-2	83.35	3.75	0.53	12.37
AC-4	88.69	2.15	0.63	8.53

[a]The contents of CNH elements were determined by CNH elemental analyser, and the content of O element was calculated by the equation C(wt%) + N(wt%) + H(wt%) + O(wt%) = 100%.

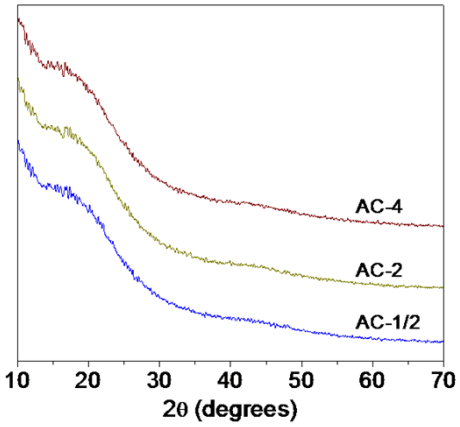

Fig. S2 Wide-angle X-ray diffraction curves of the fungi-based ACs prepared with different KOH/char mass ratios.