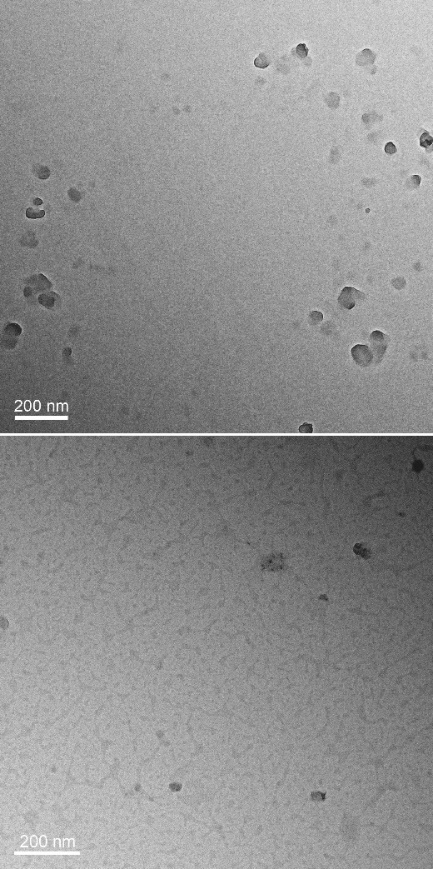
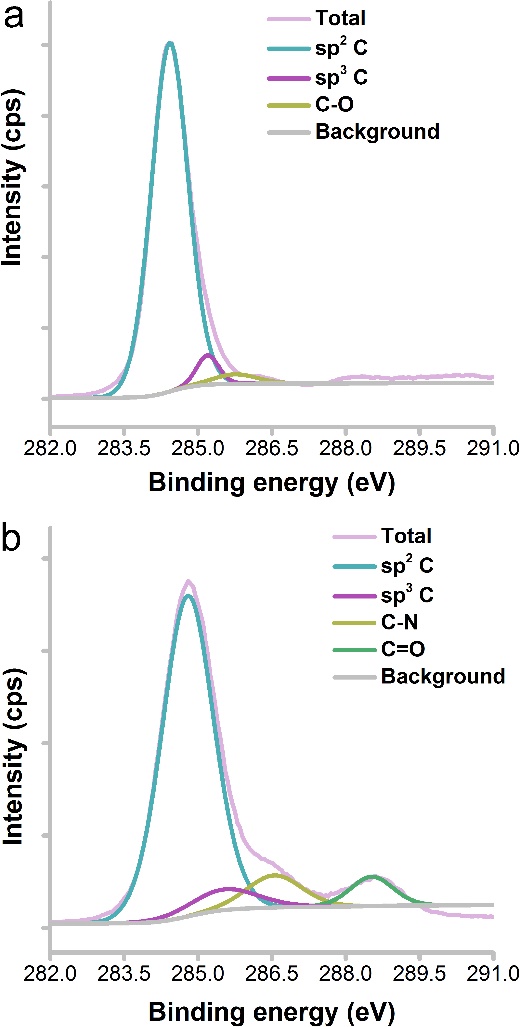
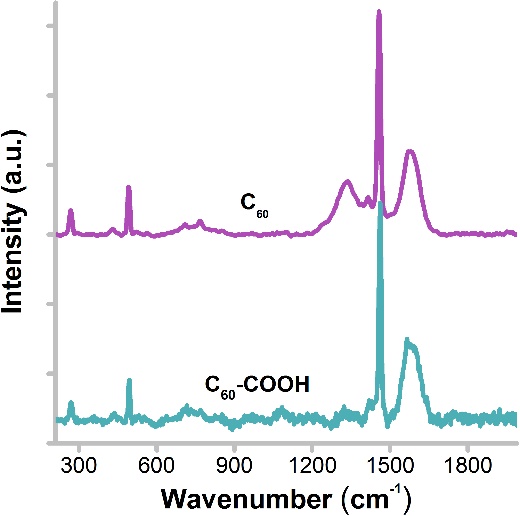
**Supplementary materials**

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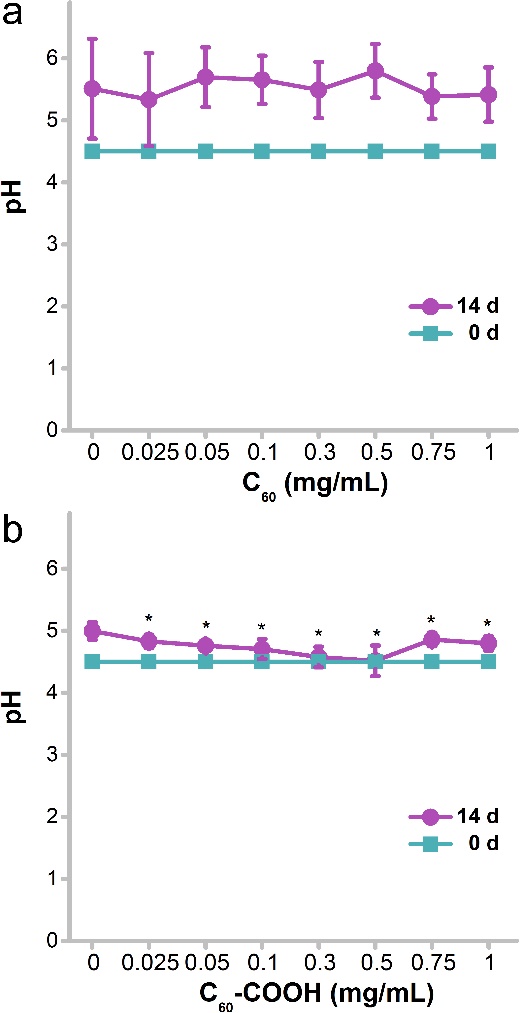
**Figure S1.** Representative TEM images of C60 (a) and C60-COOH (b).

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**Figure S2.** C1s XPS spectra of C60 (a) and C60-COOH (b).



**Figure S3.** Raman spectra of C60 (a) and C60-COOH (b).

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**Figure S4.** The pH values of the *Phanerochaete chrysosporium* culture systems before and after the incubation for 14 d with C60 (a) and C60-COOH (b). \* *p*<0.05 comparing to the control group.