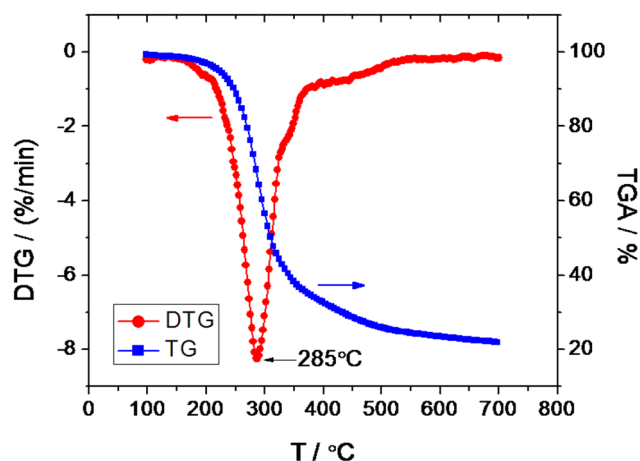
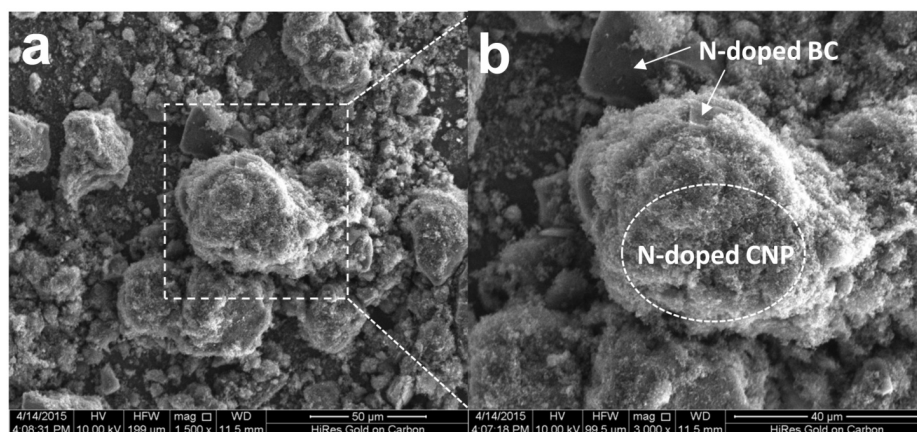


# Supplementary Materials: The Use of an Edible Mushroom-Derived Renewable Carbon Material as a Highly Stable Electrocatalyst towards Four-Electron Oxygen Reduction

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**Figure S1.** The Thermogravimetric and differential thermogravimetric (TG-DTG) analysis of enoki mushroom (EM) dried powder; TG measurements were recorded from 100 to 700 °C with a ramp rate of 10 °C·min<sup>-1</sup>. It is found that the decomposition of biological protein inside EM occurred at about 300 °C.



**Figure S2.** The scanning electron microscopy (SEM) image (a,b) of the nitrogen-doped biocarbon composite material (N-BC@CNP-900) catalyst.