

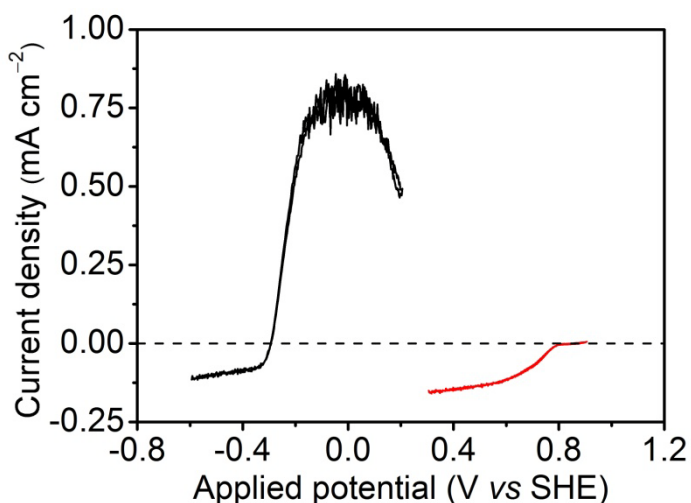
## Supporting information

# Optimizing the Power of Enzyme-based Membrane-less Hydrogen Fuel Cells for Hydrogen-rich H<sub>2</sub>/air mixtures

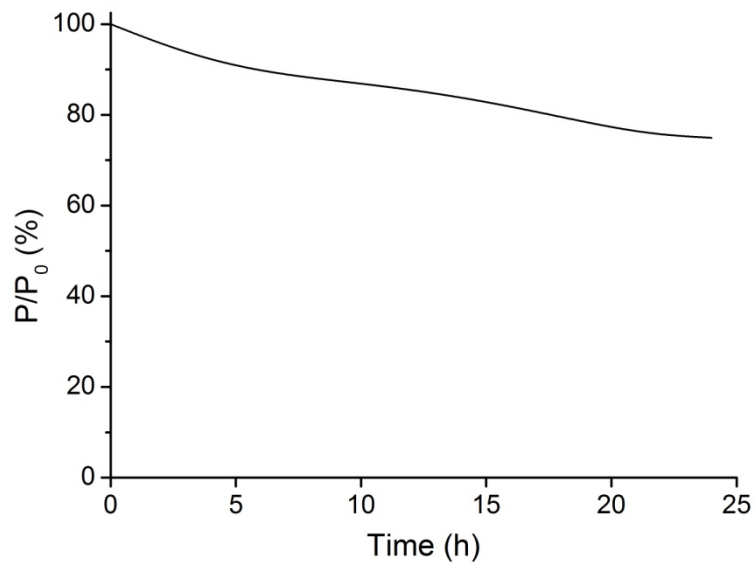
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**Figure S1.** Cyclic voltammograms of the Hyd-1-modified carbon-deposited anode (black) and the BOD-modified carbon-deposited cathode (red) under a 78% H<sub>2</sub>/22% air mixture. Other conditions: temperature 25°C, scan rate: 1 mV·s<sup>-1</sup>, 0.1 M sodium phosphate buffer (pH 6.0).



**Figure S2.** Dependence of stability of power (%) with time (h = hours) for the 1A/3C fuel cell at an applied constant potential of 0.55 V under a quiescent 78% H<sub>2</sub>/22% air mixture at 25°C in 0.1 M sodium phosphate buffer, pH 6.0.