A low temperature aqueous formate fuel cell using cobalt hexacyanoferrate as a non-noble metal oxidation catalyst

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Electronic Supplementary Information (EIS)

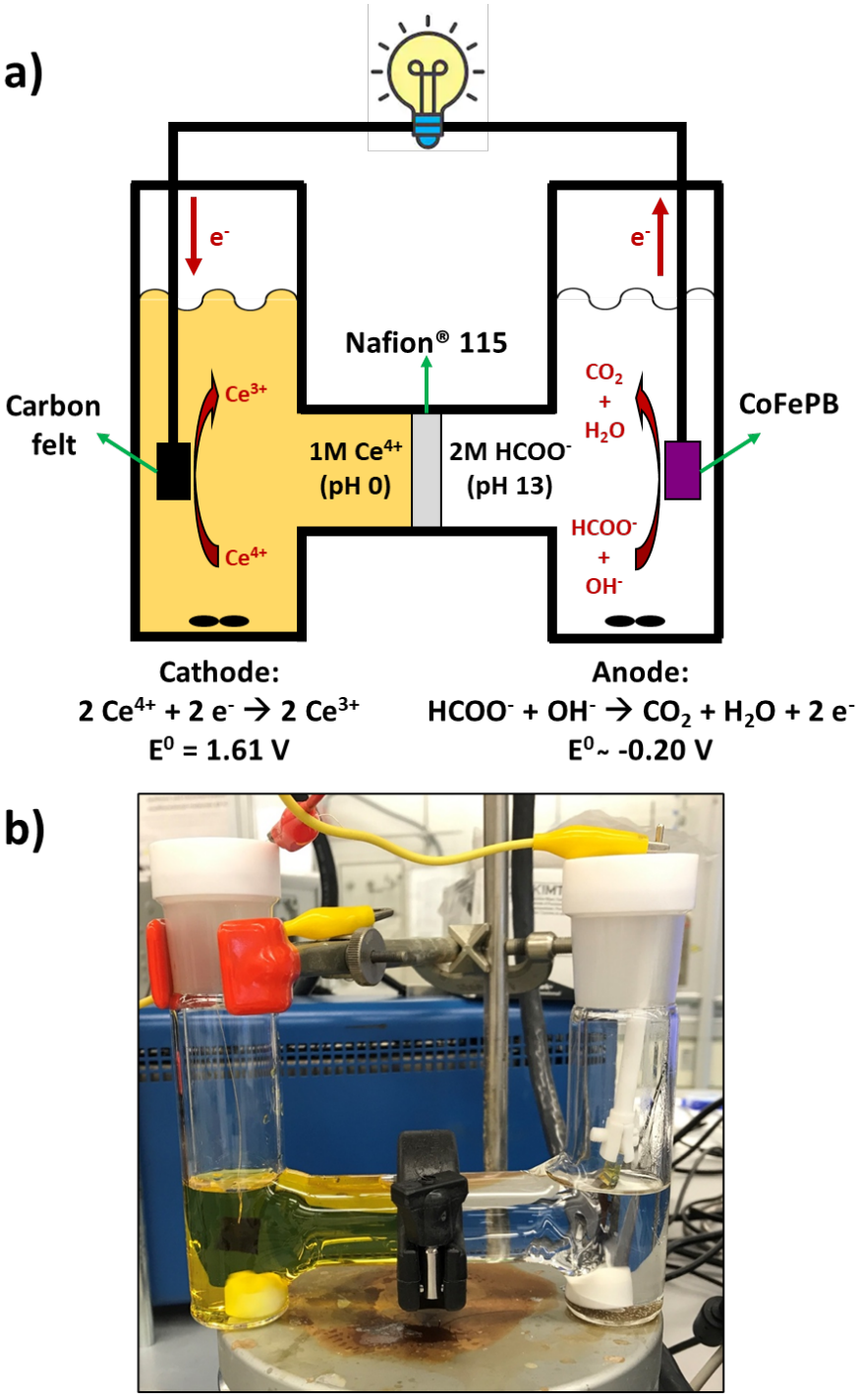

Fig. S1. (a) Schematic and (b) picture of the formate/Ce^{4+} fuel cell configuration setup employed.

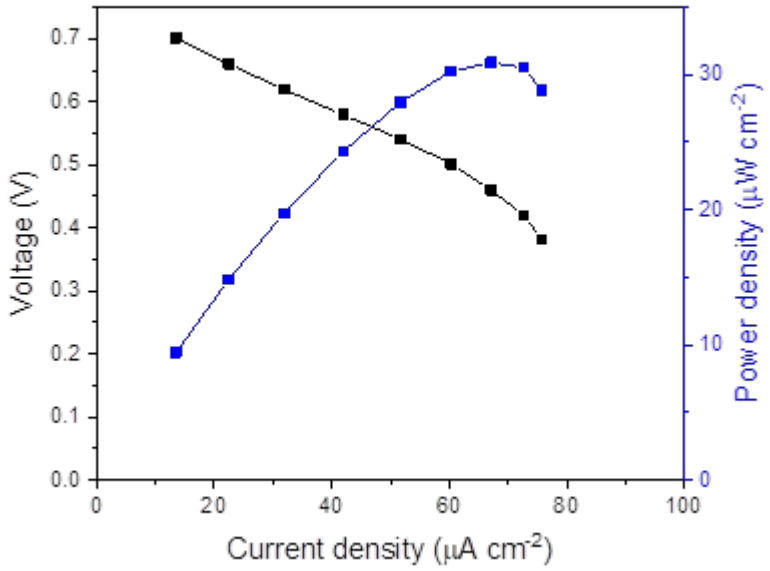

Fig. S2. Polarization curve and power density of formate/oxygen fuel cell at 25 ºC, where the anode is Pt foil, the anolyte is 2 M $HCOO^-$ (pH 13), the cathode is Pt mesh and the catholyte is 1 M H_2SO_4 (pH 0).

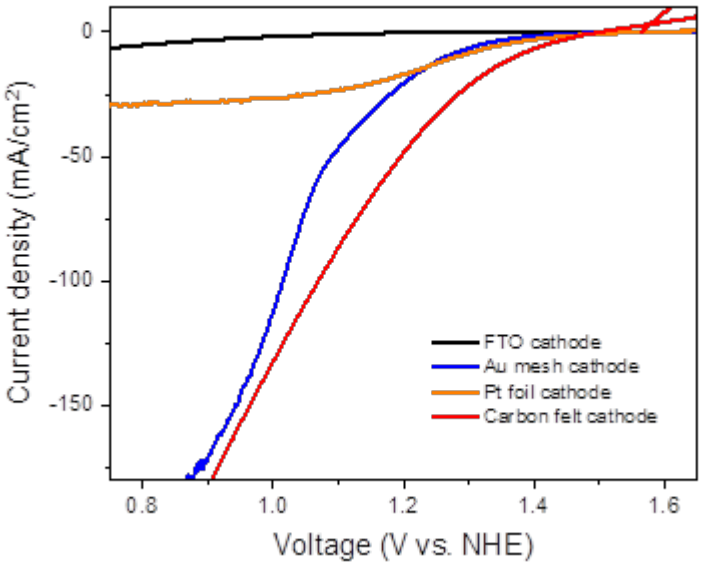

Fig. S3. Linear sweep voltammetry curves of Ce^{4+} reduction on different electrodes. Electrolyte: 0.1 M $Ce(NH_4)_2(NO_3)_6$ in 1 M HNO_3, Counter electrode: Pt mesh; Scan rate: 10 mV s^{-1}.