Electronic Supplementary Material (ESI) for Sustainable Energy & Fuels.

Fast microwave-induced synthesis of solid cobalt hydroxide nanorods and their thermal conversion into porous cobalt oxide nanorods for efficient oxygen evolution reaction

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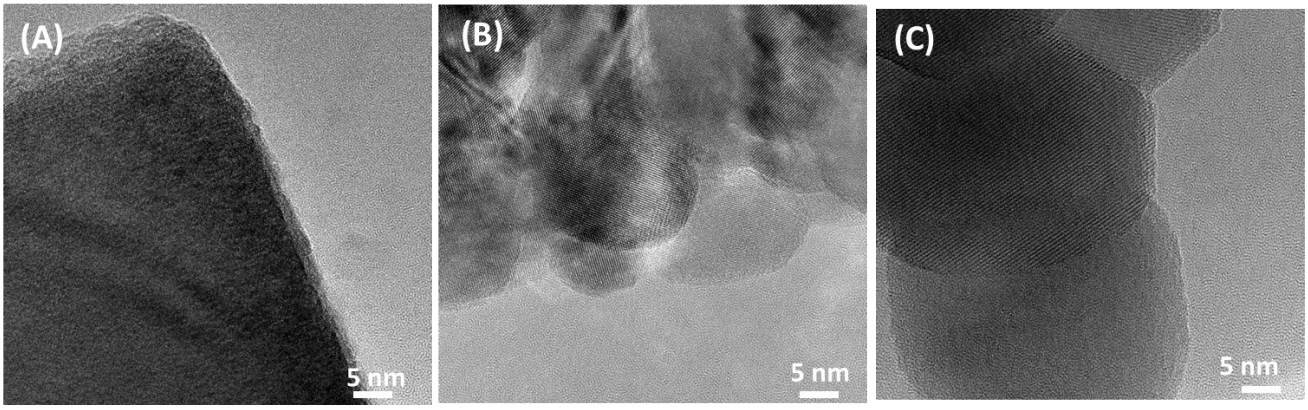

Fig. S1 TEM images of (A) $Co(OH)_2$ @ 120 °C, (B) Co_3O_4 @ 400 °C and (C) Co_3O_4 @ 600 °C.

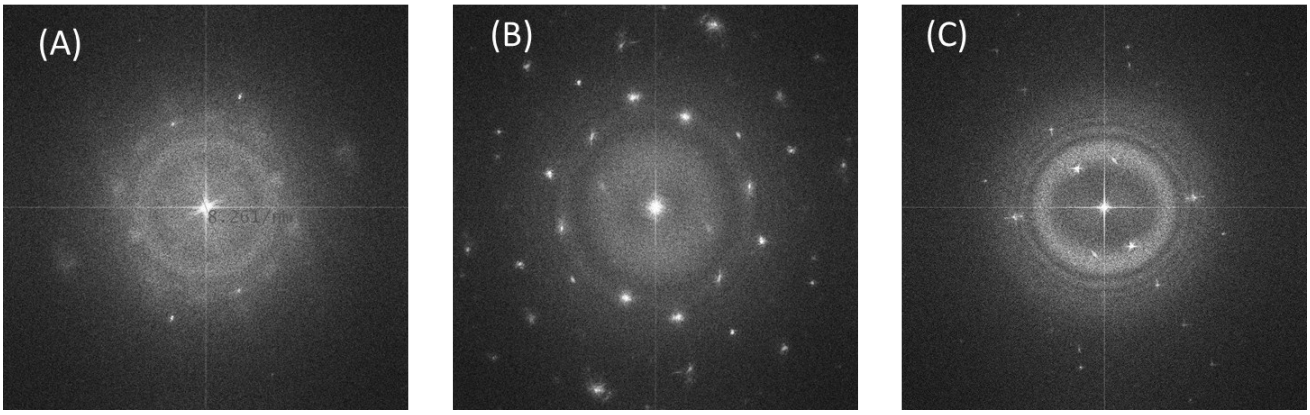

Fig. S2 SAED patterns of ((A) $Co(OH)_2$ @ 120 °C, (B) Co_3O_4 @ 400 °C and (C) Co_3O_4 @ 600 °C.

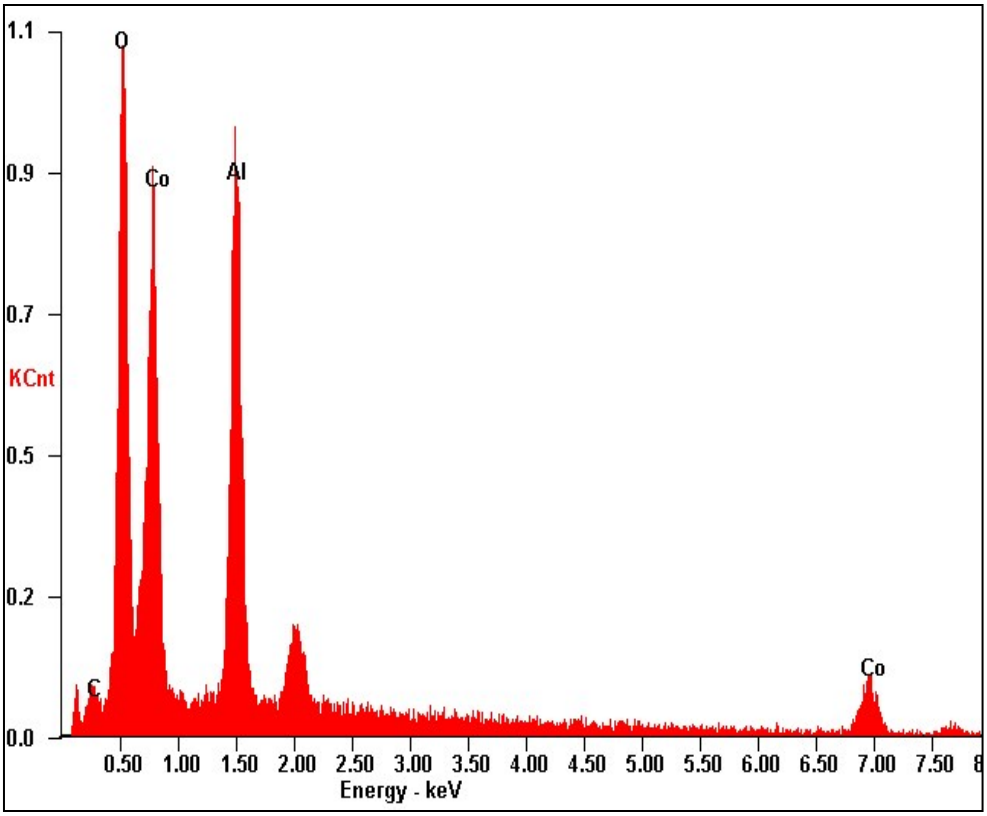

Fig. S3 EDAX spectrum of Co_3O_4 @ 600 °C.

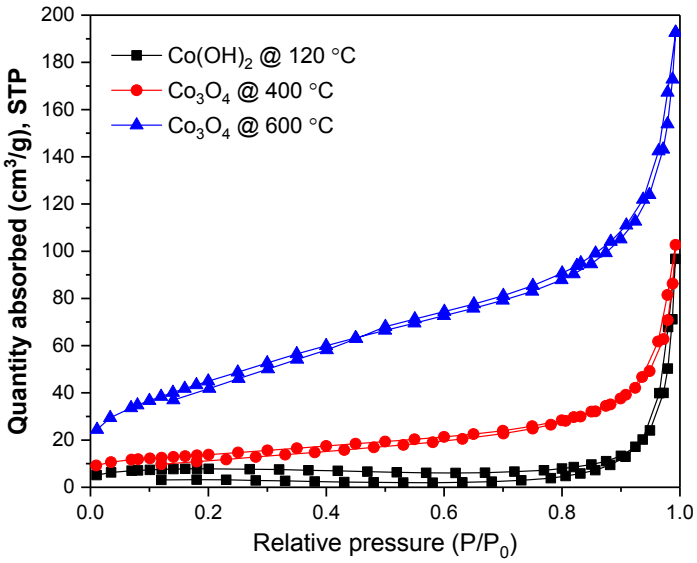

Fig. S4 Nitrogen adsorption-desorption profiles of $Co(OH)_2$ @ 120 °C, Co_3O_4 @ 400 °C and Co_3O_4 @ 600 °C.

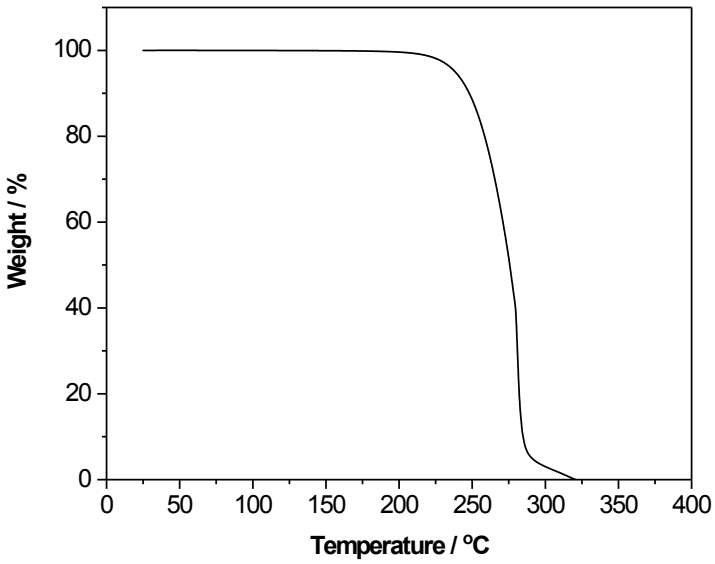

Fig. S5 Thermogravimetric analysis (TGA) of cetyltrimethylammonium bromide (CTAB).

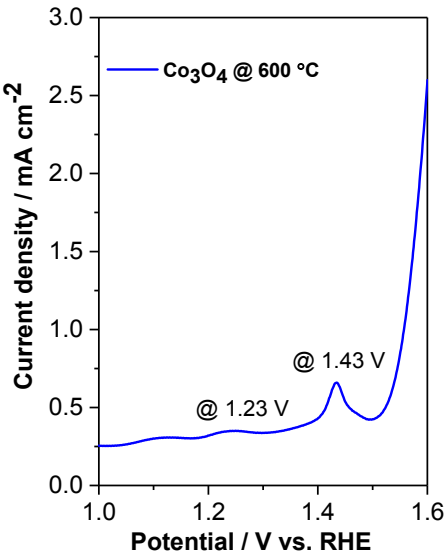

Fig. S6 Magnified linear sweep voltammogram of Co_3O_4 @ 600 °C at 1 mV/s.