

# **Self-assembled Flower-like $\text{ZnCo}_2\text{O}_4$ Hierarchical Superstructures for High Capacity Supercapacitors**

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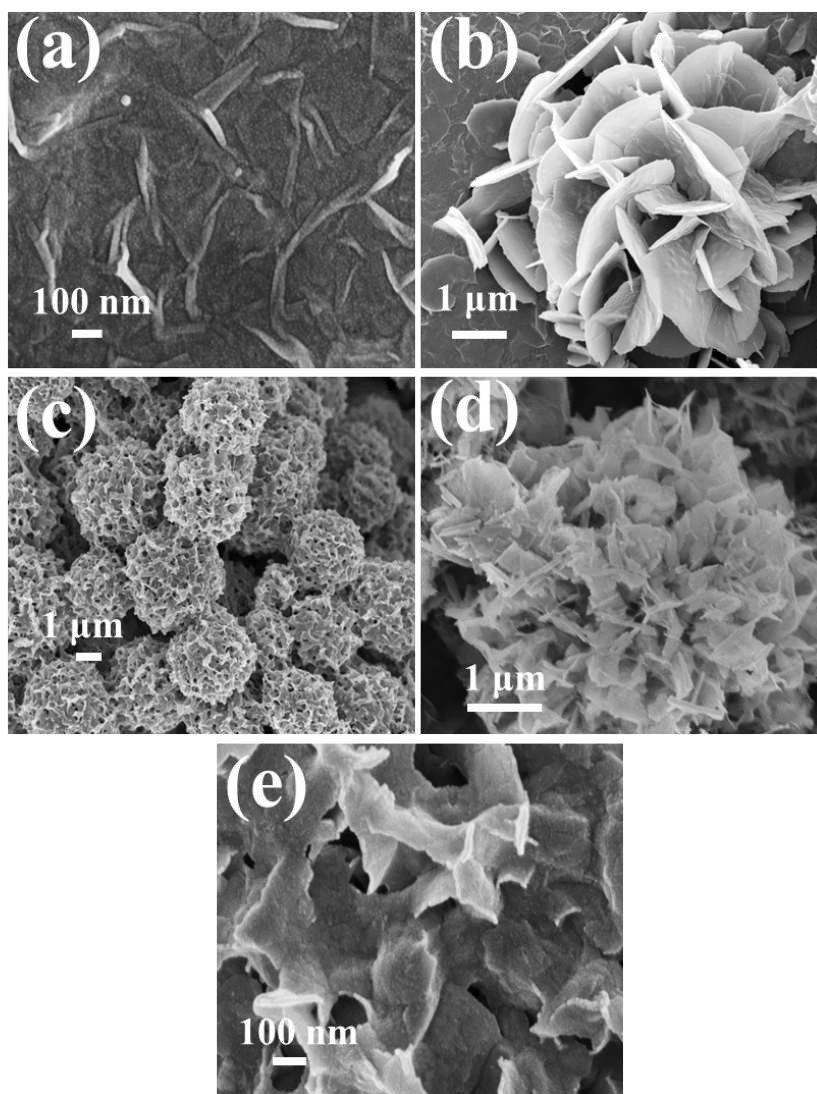
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# Supporting Information

## Table of Contents

I.	Fig. S1 FESEM images of the sample at different intervals of reaction time	S3
II.	Fig. S2 Cyclic voltammogram of the sample obtained at sweep rates of 1 mV/s and 2 mV/s, to show its redox activity.	S4
III.	Fig. S3 FESEM image of ZCO after 5000 charge-discharge cycles	S5

**Fig. S1:**



**Figure 1** Morphological study of ZCO at different time steps of reaction using field emission scanning electron microscopy. (a) at 0.5 hr of reaction time, co-precipitation of  $\text{Zn}^{2+}$  and  $\text{Co}^{2+}$  ions occur, initiating the formation of nanosheet phase. (b) at 1 hr of reaction time, oriented aggregation towards nucleation process occurs. After (c) 1.5 hrs and (d) 2 hrs of reaction time, a highly porous flower like structure is formed having numerous nanosheets possessing protruding edges. (e) highly magnified image of the ZCO sample after completion of the reaction time.

Fig. S2:

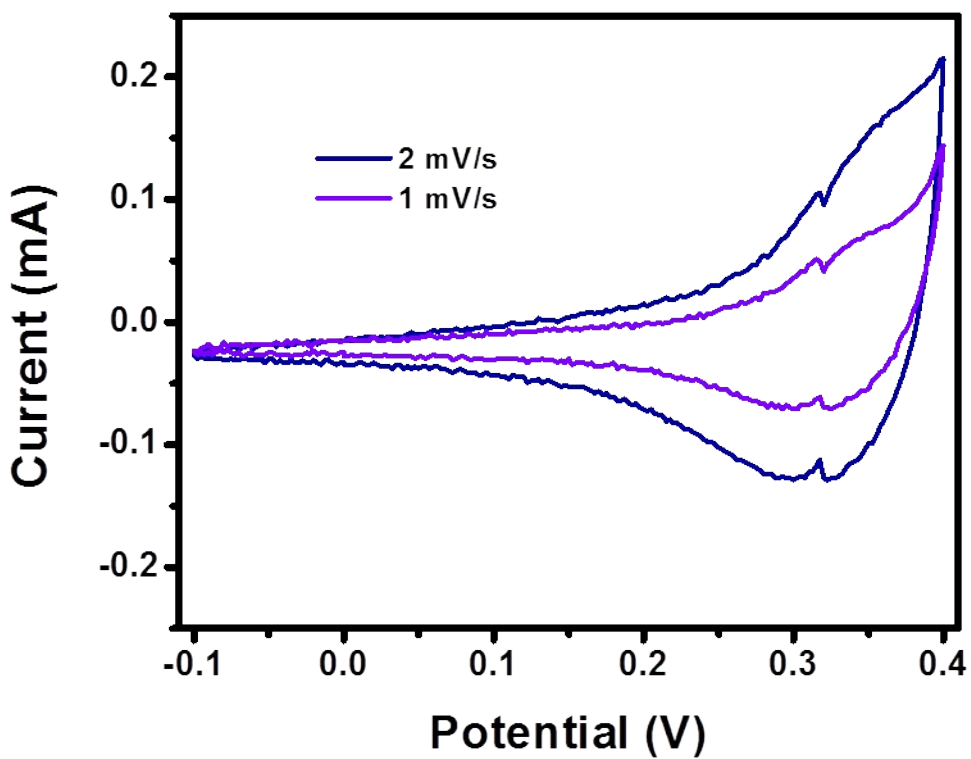
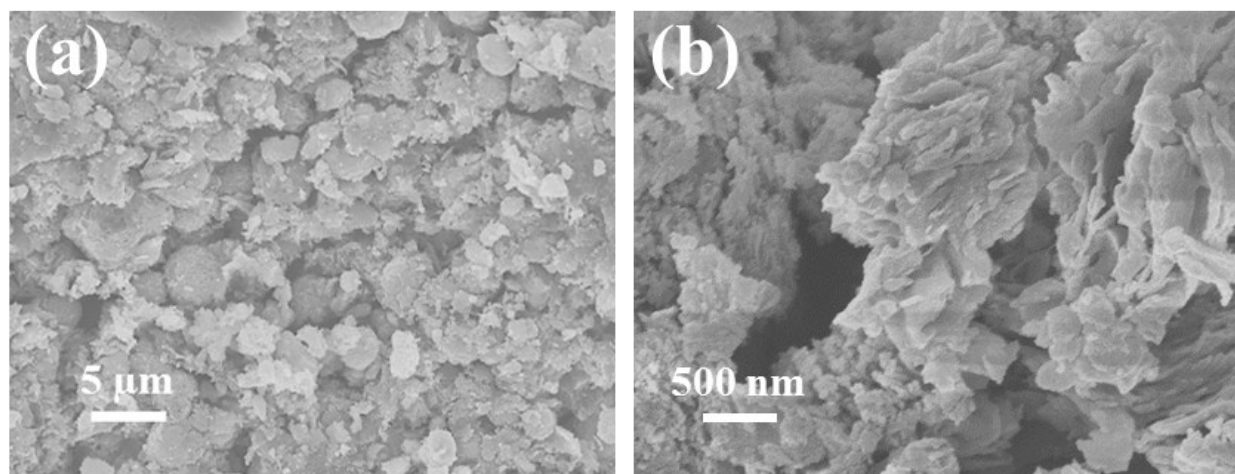


Figure 2 Cyclic voltammetry curves of ZCO at lower scan rates (i.e. 1 mV/s, 2 mV/s ) to show its redox activity. As the scan rate is increased there is a clear shift in the pair of redox peaks.

**Fig. S3:**



**Fig. S3** FESEM image of ZCO sample at (a) low and (b) high magnification, after the completion of long cyclic stability test (for 5000 cycles).