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Electronic Supplementary Information (ESI)

Enhanced High Rate Performance of Alpha-Fe_2O_3 *Nanotubes with* Alginate Binder As Conversion Anode

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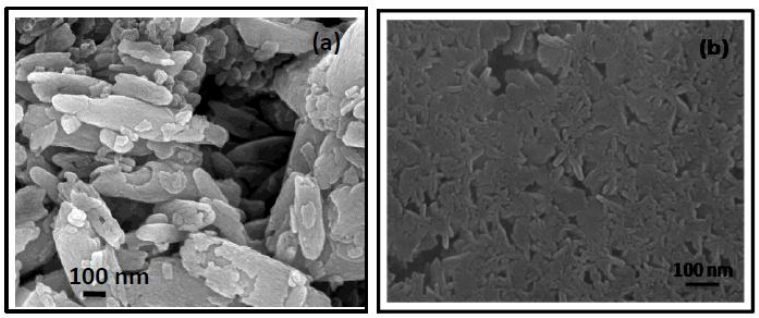

Fig. S1 FE-SEM images of α-Fe_2O_3 nanotube electrodes (a) before cycling and (b) after 50 charge-discharge cycles with alginate binder at 503 mA g^{-1}.

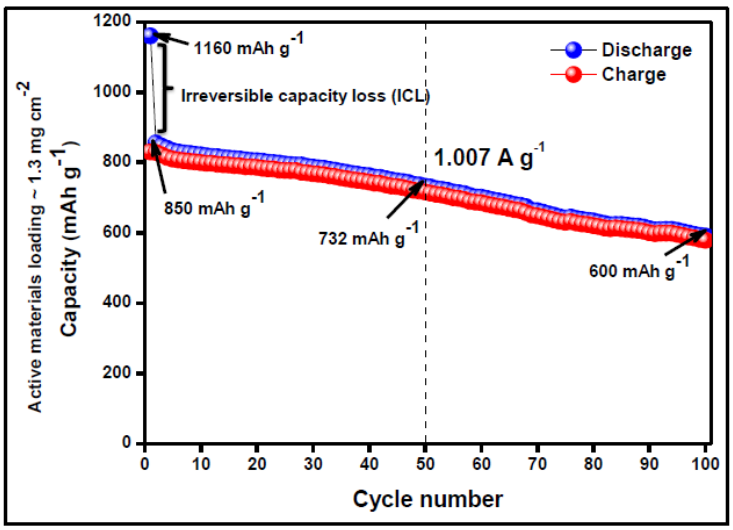

Fig. S2 Cycling performance of α-Fe_2O_3 nanotubes at 1007 mA g^{-1} with alginate binder at 20 °C.

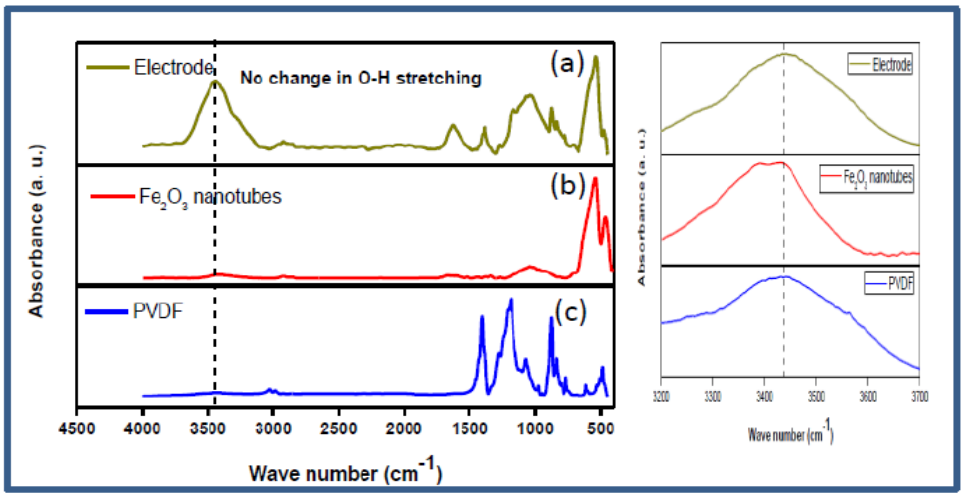

Fig. S3 FT-IR spectrum of the (a) Electrode, (b) Fe_2O_3 nanotubes and (c) PVDF [right side represents the absorbance in the range of 3200-3700 cm^{-1}]