## High performance solid-state flexible supercapacitor based on Fe<sub>3</sub>O<sub>4</sub>/carbon nanotube/polyaniline ternary films

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Fig. S1 SEM images of CNT film-Fe $_3O_4$  prepared from (a) 0.04M, (b) 0.05M, (c) 0.06M and (d) 0.07M FeCl $_3$ .



Fig. S2 Curves of electric conductivity with the electropolymerization time.



Fig.S4. Static water contact angle of CNT film-Fe<sub>3</sub>O<sub>4</sub>-PANI composite prepared from different deposition

times.