

**Dual-function composite film with enhanced electrochromism and supercapacitor performances by combination of polyoxometalate with poly(3,4-ethylenedioxythiophene)**

**Supplementary Information**

**Figure Captions**

**Fig. S1** CV curves of  $[\text{P}_2\text{W}_{18}\text{-PAH}]_{10}$  and  $[\text{PEDOT}]_{10}$  films at a scan rate of  $25 \text{ mV s}^{-1}$ .

**Fig. S2** The relationship between peak potentials of last redox peaks of the  $[\text{P}_2\text{W}_{18}\text{-PEDOT}]_{20}$  film and pH.

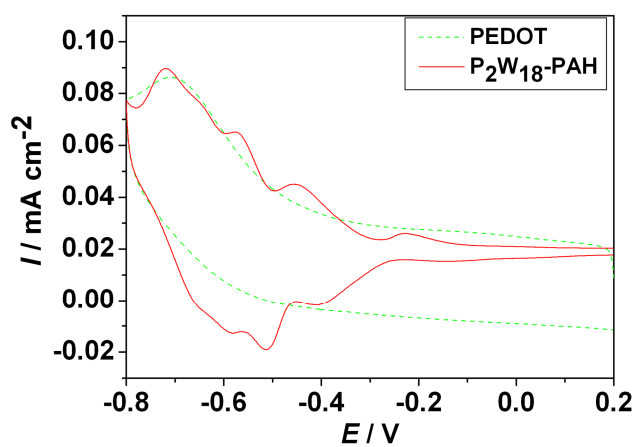


Fig. S1

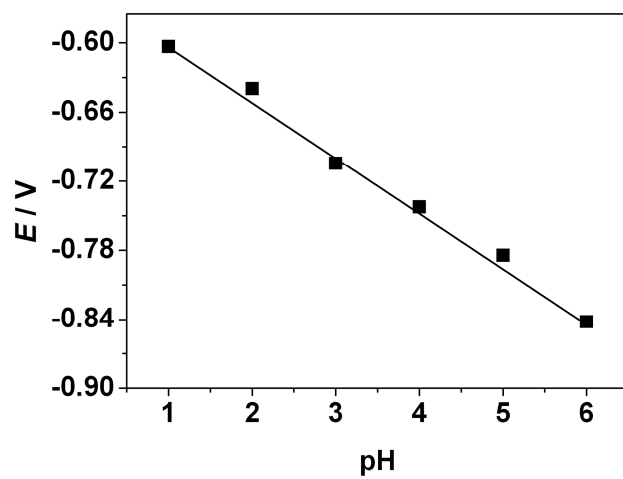


Fig. S2