

## Supplementary Information

# Synthesis of Exfoliated Titanium Dioxide Nanosheets / Nickel-Aluminum Layered Double Hydroxide as a Novel Electrode for Supercapacitors

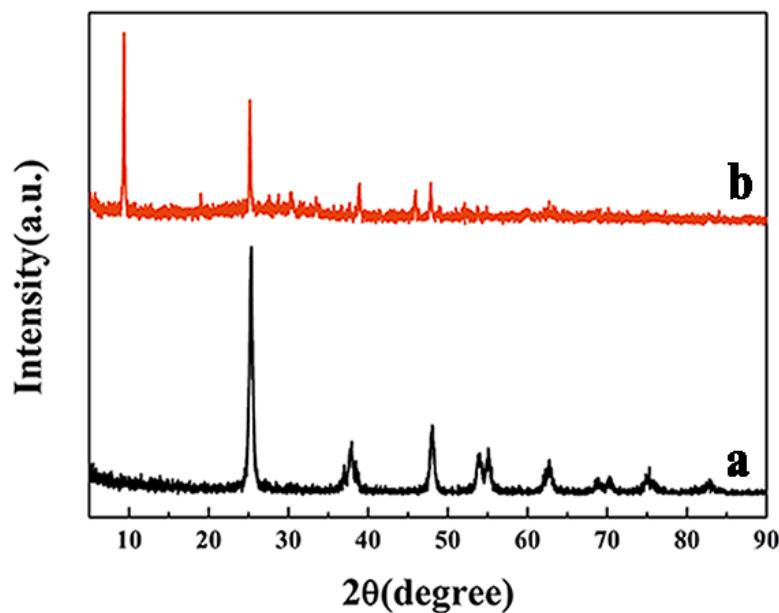
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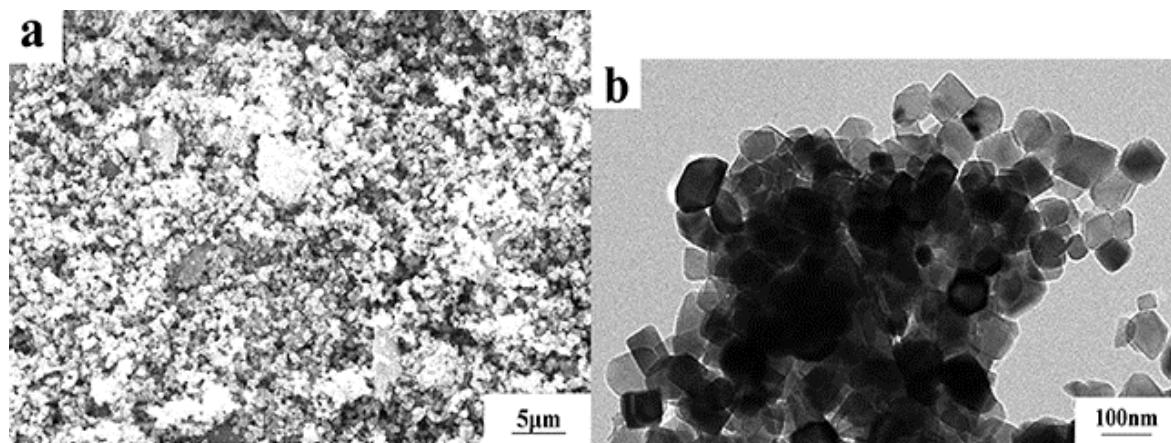
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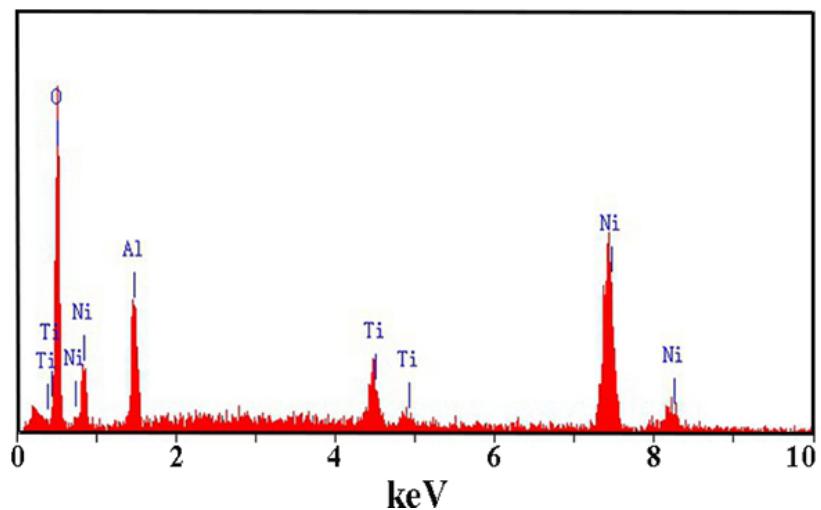
**Fig. S1** The XRD patterns for (a) anatase  $\text{TiO}_2$ , (b) protonated titanate.



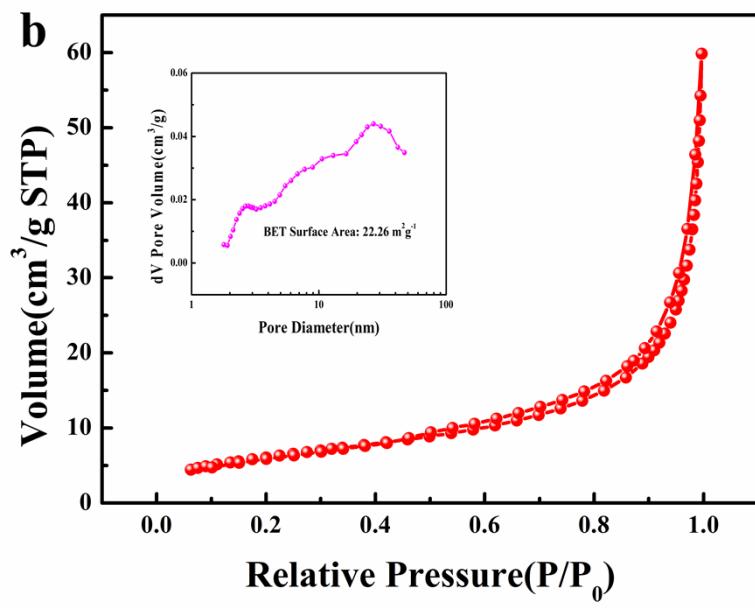
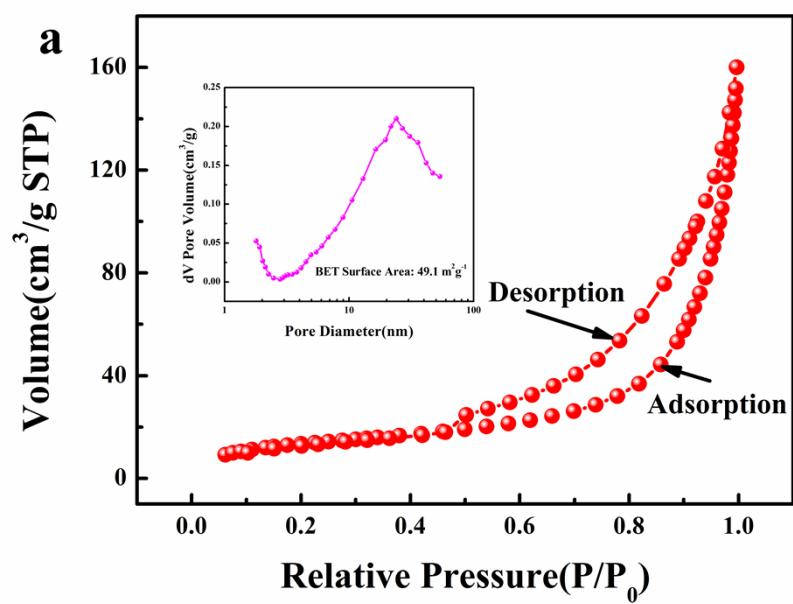
**Fig. S2** The SEM and TEM of anatase  $\text{TiO}_2$ .

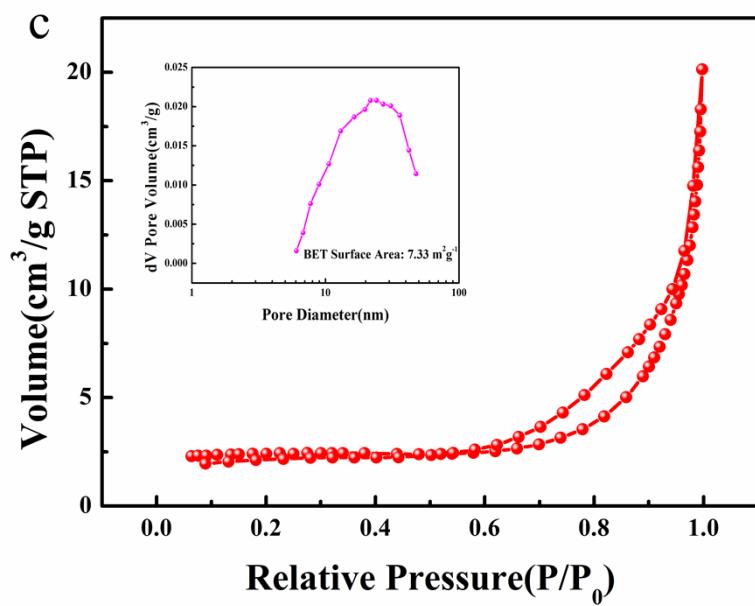


**Fig. S3** The photos of the colloidal suspension of exfoliated TiO<sub>2</sub>.



**Fig. S4** The EDS spectrum of the TiO<sub>2</sub>/Ni-Al LDH composite.





**Fig. S5** Nitrogen adsorption and desorption isotherms for the (a)  $\text{TiO}_2/\text{Ni-Al LDH}$ , (b) Ni-Al LDH and (c)  $\text{TiO}_2$ . The insets show the corresponding BJH pore size distributions.