

Supporting Information

Exceptional Electrochemical Performance of Porous TiO₂-Carbon Nanofibers for a Lithium Ion Battery Anode

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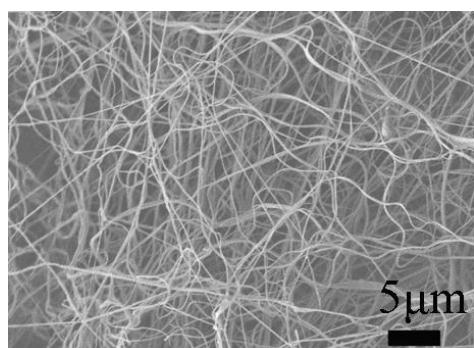


Fig. S1 (a) SEM image of the ODPTCNs.

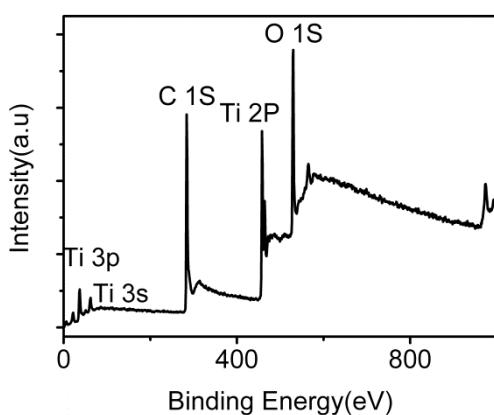


Fig. S2 (a) XPS fully scanned spectra of the ODPTCNs.

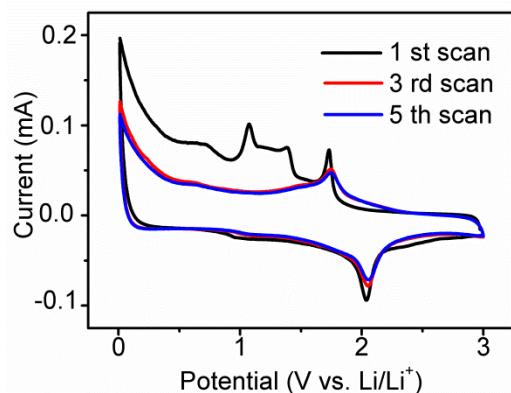


Fig.S3 Cycle voltammograms of the ODPTCNs in LiPF₆ with Li as counter and reference electrode at a scan rate of 0.1 mV/s.

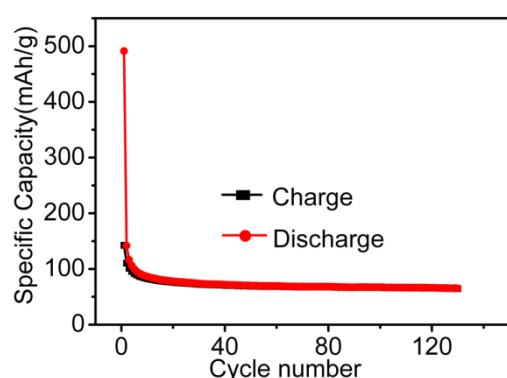


Fig.S4 Cycling performance of TiO₂ nanofibers at a current density of 100 mA g⁻¹.

Table S1 Comparison of capacities for various TiO₂-based anode electrodes

Material	Current density	Potential range	Capacity [mA h g ⁻¹]	Ref.
TiO ₂ -carbon	100 mA g ⁻¹	0-3V	680, 250 cycles	This study
TiO ₂ -RGO	100 mA g ⁻¹	0-3V	200,100 cycles	1
TiO ₂ -carbon	30 mA g ⁻¹	0-3V	420, 50 cycles	2
TiO ₂ -graphene	150 mA g ⁻¹	0-3V	430,100 cycles	3
TiO ₂ -carbon	100 mA g ⁻¹	1-3V	371, 1 cycle	This study
TiO ₂ -graphene	33 mA g ⁻¹	1-3V	185, 1 cycle	4
TiO ₂ -CNT	50 mA g ⁻¹	1-3V	212, 1 cycle	5
TiO ₂ -carbon	170 mA g ⁻¹	1-3V	210, 1 cycle	6

Reference

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