

Multiwalled Carbon Nanotube Network Connected $\text{Mg}_{0.5}\text{Ti}_2(\text{PO}_4)_3$ Composites to Improve Sodium Storage Performance

Shuang Ding^a, Jie Yuan^{b,*}, Huijin Li^a, Xianli Yuan^a, Min Li^b, Chaoqiao Yang^a

^aCollege of Environmental and Chemical Engineering, Dalian University, Dalian, 116622, Liaoning, China

^bSchool of Chemistry and Materials Engineering, Liupanshui Normal University, Liupanshui, 553004, Guizhou, China

*Corresponding author: yuanjieedu@163.com.

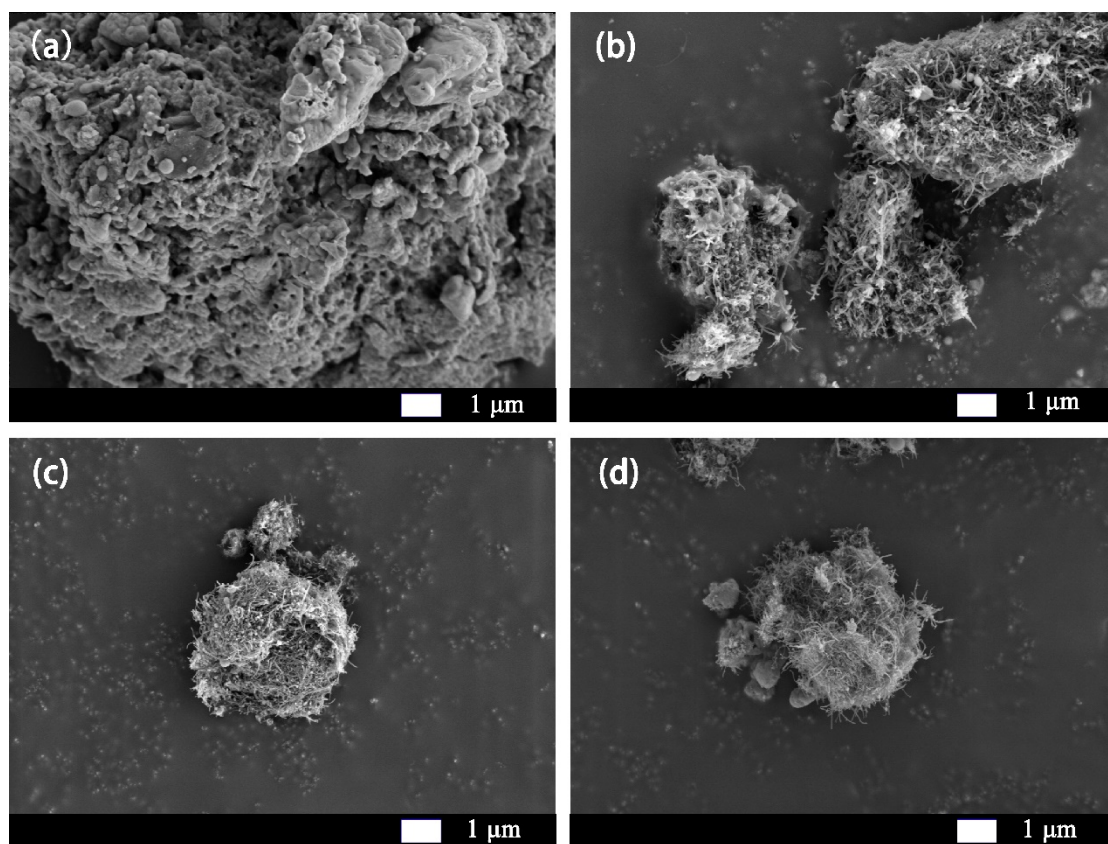


Fig. S1. (a)SEM images of MTP. (b)SEM images of MTP-CNT10. (c)SEM images of MTP. (d)SEM images of MTP-CNT10.

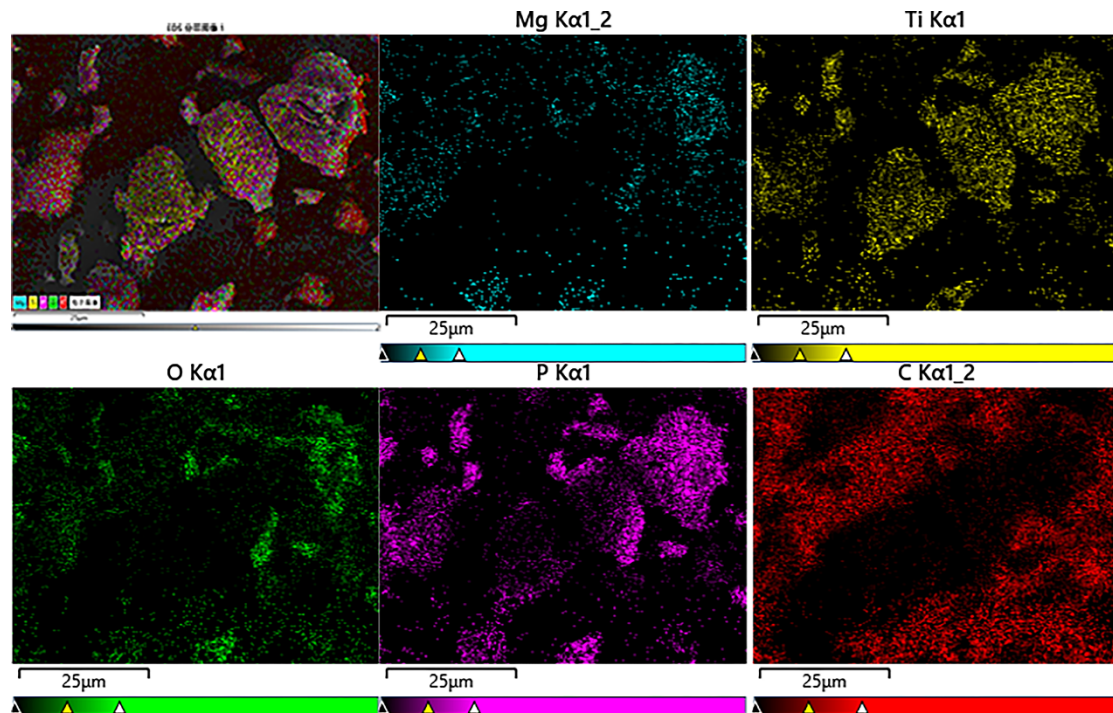


Fig. S2. EDX images of MTP-CNT10 and EDX elemental mappings of MTP-CNT10.

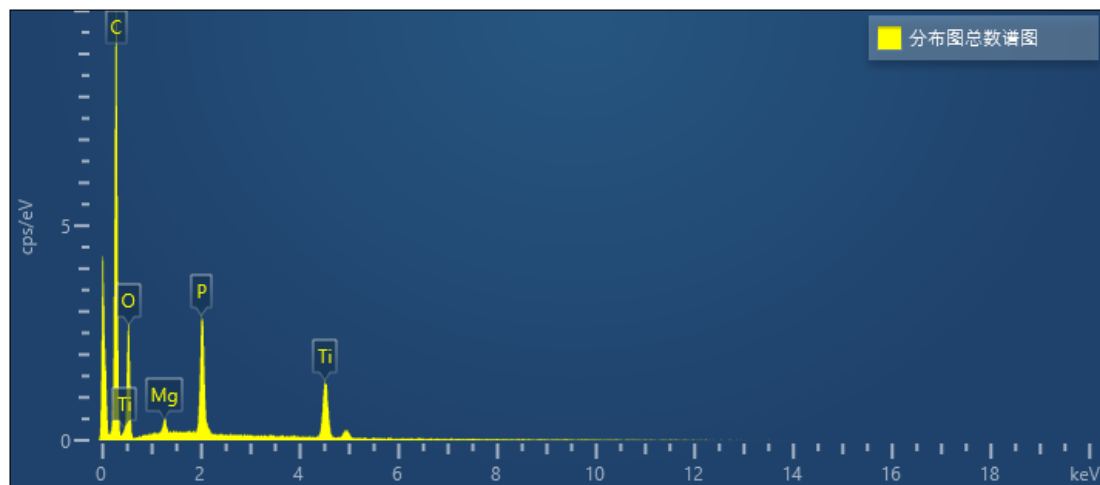


Fig. S3. EDS distribution total spectrum

Tab.S1. EIS fitting data of composites

	$R_s(\Omega)$	$R_{ct}(\Omega)$	Warburg($\Omega \text{ cm}^{-2}$)
MTP	9.148	38.03	0.0085
MTP-CNT5	8.922	39.44	0.0024
MTP-CNT10	8.114	16.48	0.0017
MTP-CNT15	7.405	17.37	0.0022

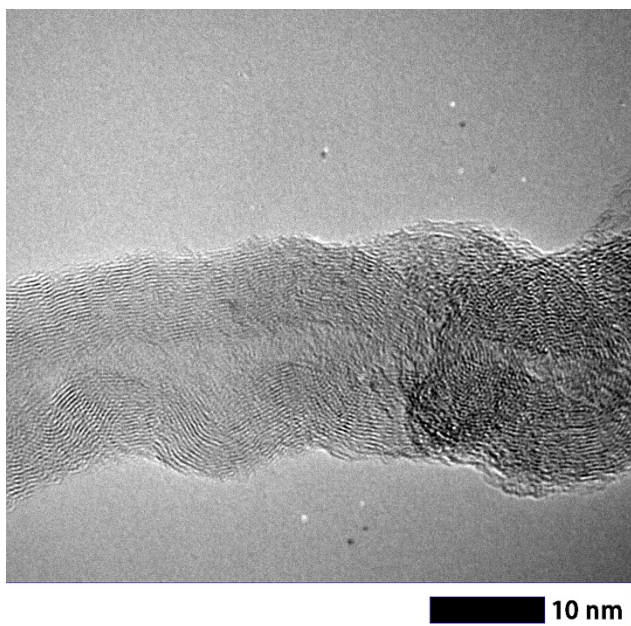


Fig. S4. TEM images of CNTs in MTP-CNT10.

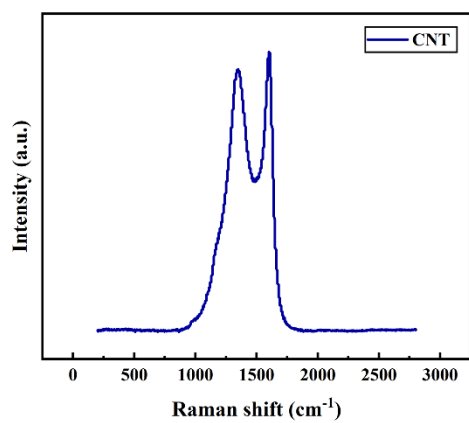


Fig.S5. Raman spectra of CNTs.

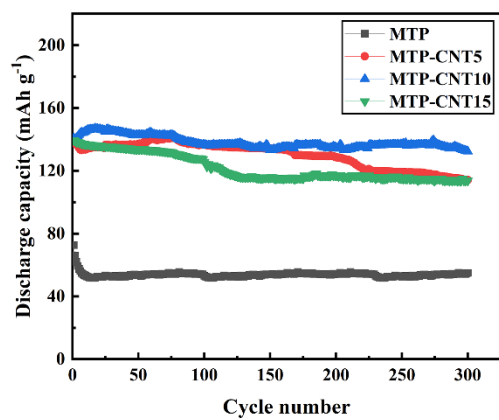


Fig.S6. The cycling performance of MTP, MTP-CNT5, MTP-CNT10 and MTP-CNT15 at a rate of 10C for 300 cycles.