Electronic Supplementary Material (ESI) for RSC Advances
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Electronic Supplementary Material

PO_4^{3-} doped $Li_4Ti_5O_{12}$ hollow microspheres as anode material for lithium-ion batteries

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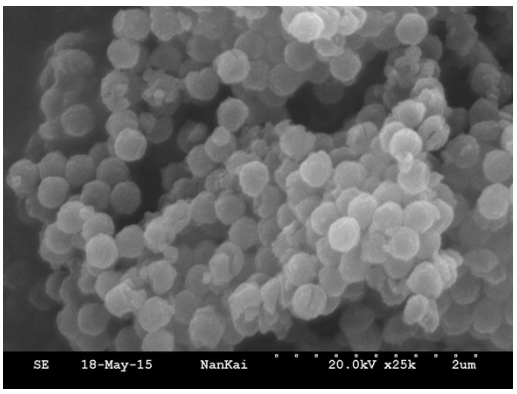

Fig. S1 SEM image of the spherical precursor.

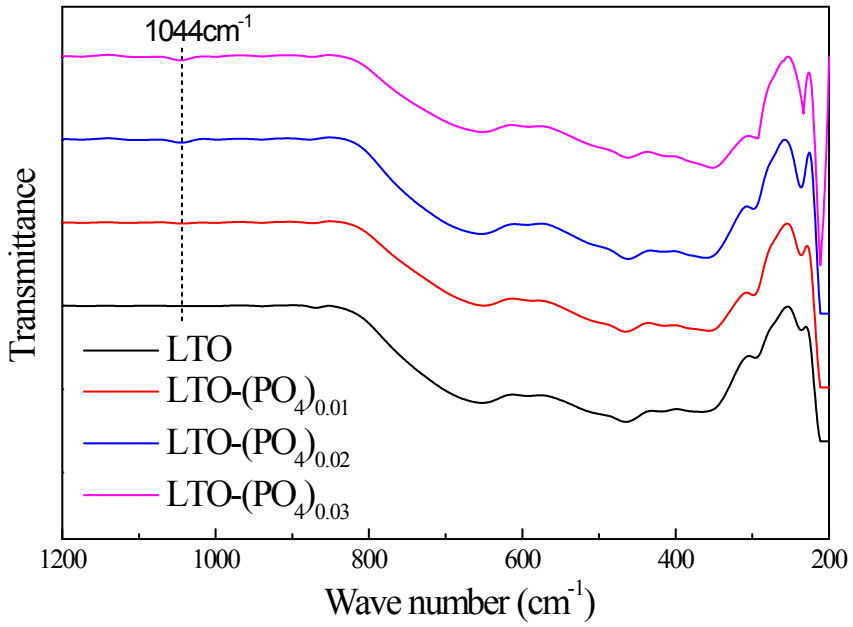

Fig. S2 FTIR of all the as-prepared samples

Table S1 The lattice parameters of samples

Sample	a (Å)
LTO	8.3689
LTO-$(PO_4)_{0.01}$	8.3726
LTO-$(PO_4)_{0.02}$	8.3729
LTO-$(PO_4)_{0.03}$	8.3733

Table S2 The electronic conductivity of LTO-$(PO_4)_x$

Sample	Electronic conductivity
LTO	1.22 E -9
LTO-$(PO_4)_{0.01}$	1.07 E -8
LTO-$(PO_4)_{0.02}$	2.82 E -7
LTO-$(PO_4)_{0.03}$	2.55 E -9