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Rational design of Pea-pod structure of SiO_x/C in carbon nanofibers as high-performance anode for lithium ion batteries

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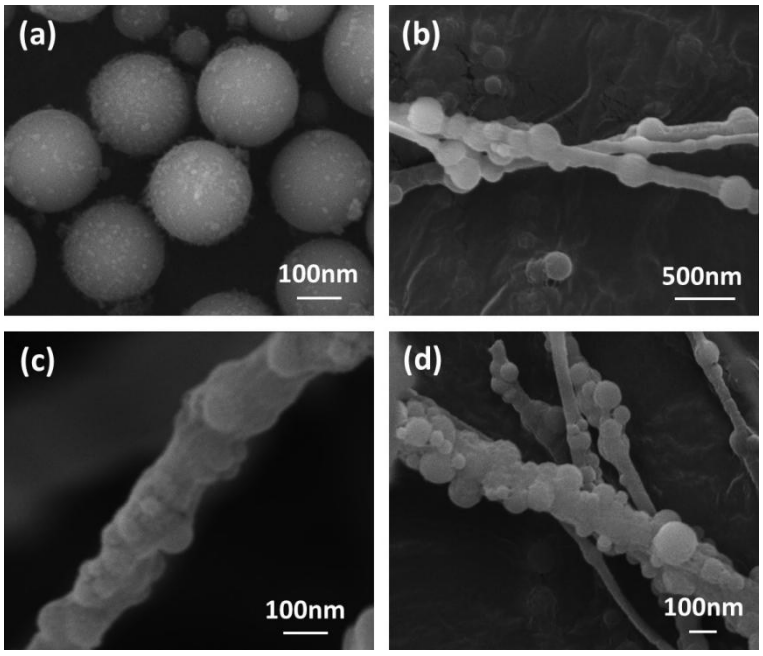

Figure S1 SEM images of the organosilca-polymer nanospheres (a) and the as-electrospun precursors with different nanospheres additions (b-d).

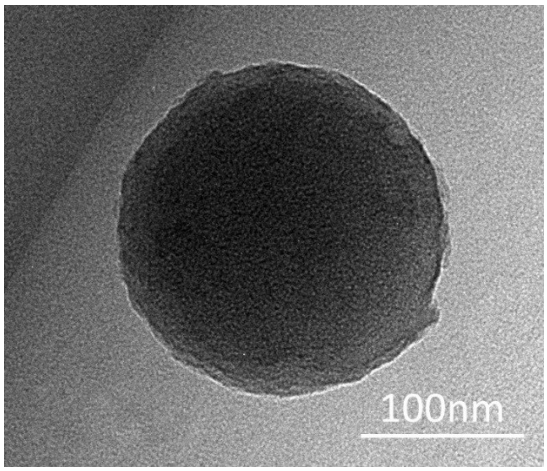

Figure S2 TEM image of the organosilca-polymer precursor.

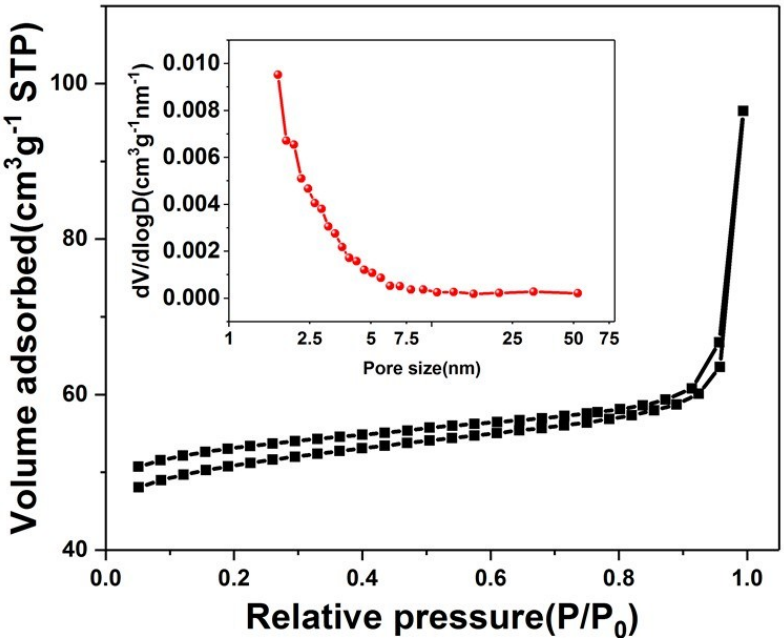

Figure S3 Nitrogen adsorption-desorption isotherm and the corresponding pore size distribution of the SiO_x/C-0.4.

Table S1 Cycling performance comparison between SiO_x/C-0.4 and SiO_x based materials in previous works.

Materials	Current density (mA g^{-1})	Cycles	Capacity (mAh g^{-1})
SiO_x-PVDF [35]	900	200	<300
SiO-graphite [24]	500	100	358
Watermelon-like SiO_x [30]	1000	600	<400
C-SiO_x [34]	1000	600	<300
SiO_x/C-0.4	**1000**	**750**	**410**