



## Supporting Information

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Donut-Shaped  $\text{Li}_4\text{Ti}_5\text{O}_{12}$  Structures as a High Performance  
Anode Material for Lithium Ion Batteries

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## Supporting Information

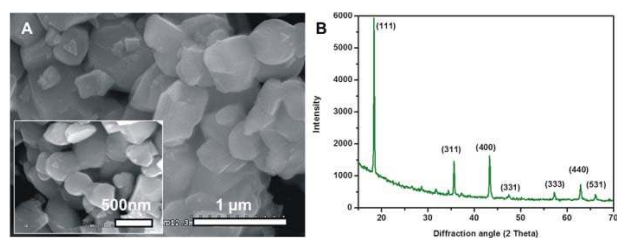


Figure S1. FESEM and XRD pattern of commercial LTO

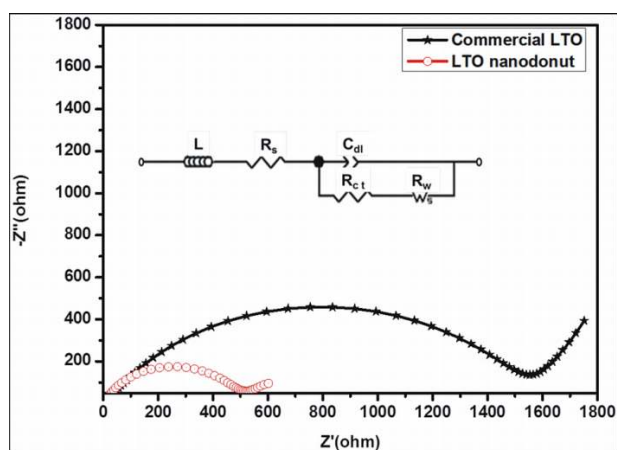


Figure S2. EIS Nyquist plot comparison of LTO sub-micron donuts and commercial LTO at 10 mV . An equivalent circuit for the same is also provided in the inset.

Electrochemical impedance curve fitting results on LTO sub-micron donuts and commercial LTO

Sl. No		$R_s$ ( $\Omega$ )	$C_{dl}$ ( $\mu F$ )	$R_{ct}$ ( $\Omega$ )
1.	Commercial LTO	11.93	22.51	1561
2.	LTO sub-micron donuts	4.79	24.12	484.9

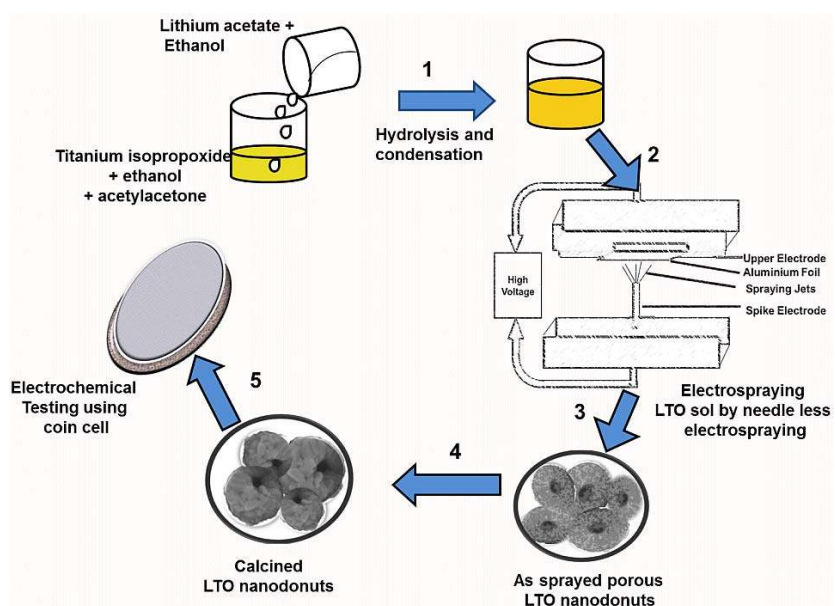


Figure S3. Schematic showing formation of LTO **sub-micron** donuts by sol-gel electrospinning for lithium ion battery application