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Supporting Information



Figure S1. XPS spectra of LiMnPO₄ nanocrystals showing the Mn $2p_{1/2}$ and $2p_{3/2}$ as 653.3 and 641.1 eV, respectively.

Sl.No	Temperature (°C)	Precursor concentration (M)	Crystallite size (nm)
1	250, 275	0.015	7
2	325	0.015	8
3	375	0.015	12
4	400	0.005-0.025	13-15

Table S1. The average crystallite size of the $LiMnPO_4$ NCs calculated by the XRD data using Scheerer's equation.

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Figure S2. Histograms of LiMnPO₄ NCs synthesized at different reaction time.



Figure S3. TEM images of LiMnPO₄ NCs synthesized using different precursor concentration.



Figure S4. Histograms of LiMnPO₄ NCs synthesized using different precursor concentration



Figure S5. TEM images of carbon coated LiMnPO₄ after ball milling carbon coating.



Figure S6. TEM images of $LiMnPO_4$ with average particle size 80 nm (a) and 60 nm (b).