

Electronic Supplementary Information

Improved rate capability and cycle stability of bicontinuous hierarchical mesoporous LiFePO₄/C microbelts for lithium-ion batteries

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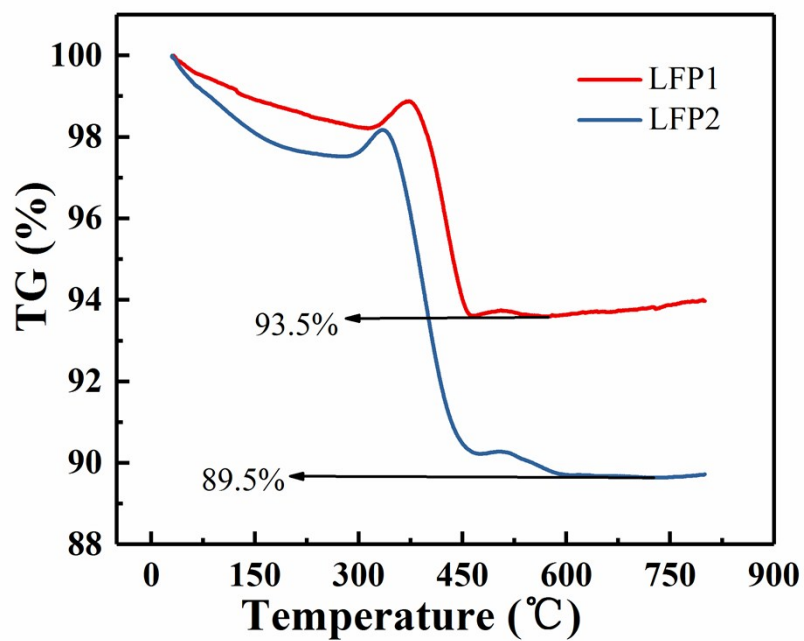
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Table S1. Solubility of LFP precursor salts (LiH_2PO_4 , $\text{Fe}(\text{NO}_3)_3$) in different solvents

| Solvent | DMF:H ₂ O=1:1 (volume ratio) | H ₂ O | DMF |
|-----------------------------------|--|------------------|-------|
| Solubility of precursors (g/100g) | 180.6 | 338.62 | 39.42 |

Table S2. The calculated Li^+ diffusion coefficients for LFP1 and LFP2 at scan rates from 0.4 to 0.8 mV s^{-1} .

| D (cm^2s^{-1}) | Oxidation (charge) | Reduction (discharge) |
|----------------------------------|------------------------|------------------------|
| LFP1 | 1.67×10^{-11} | 1.31×10^{-11} |
| LFP2 | 5.46×10^{-12} | 3.65×10^{-12} |

**Fig. S1** TGA analysis of LFP1 and LFP2.

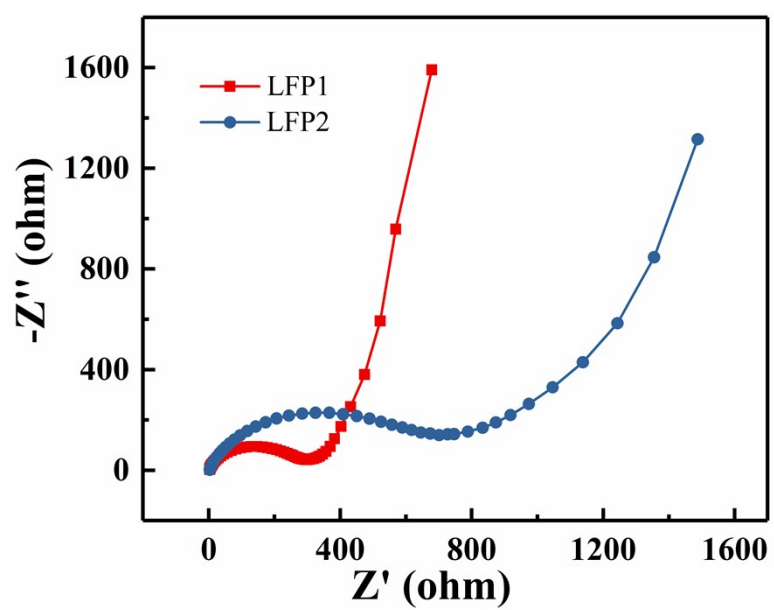


Fig. S2 Nyquist plots of the two samples.