

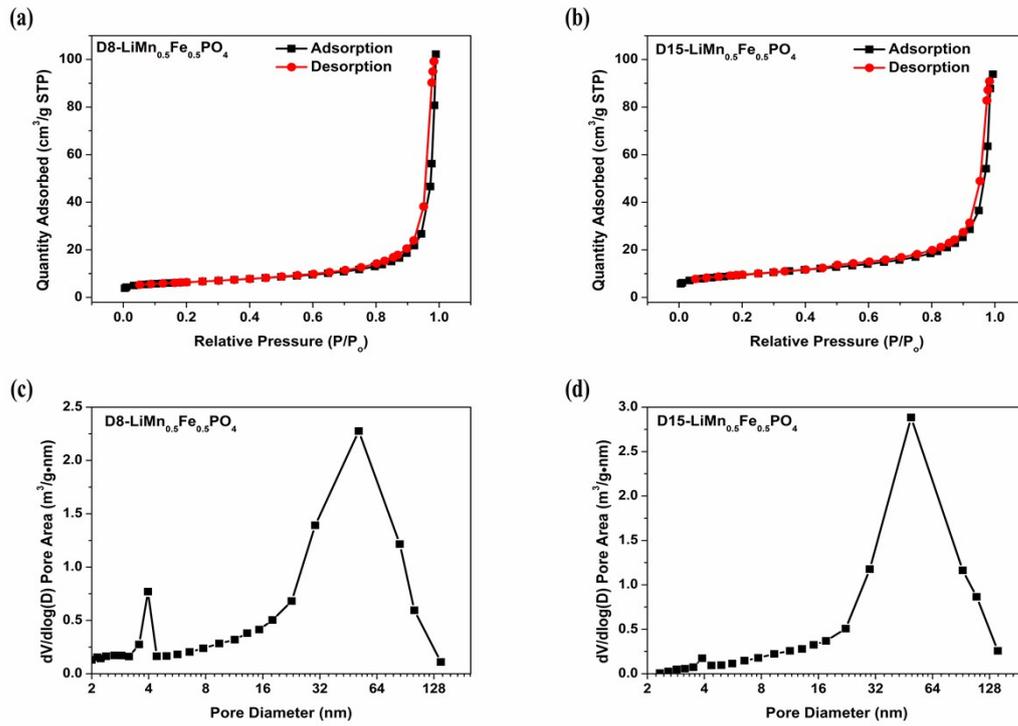
**Electronic Supplementary Information for:**  
**Solvothermal synthesized  $\text{LiMn}_{1-x}\text{Fe}_x\text{PO}_4@C$  nanopowders  
with excellent high rate and low temperature performances  
for lithium-ion batteries**

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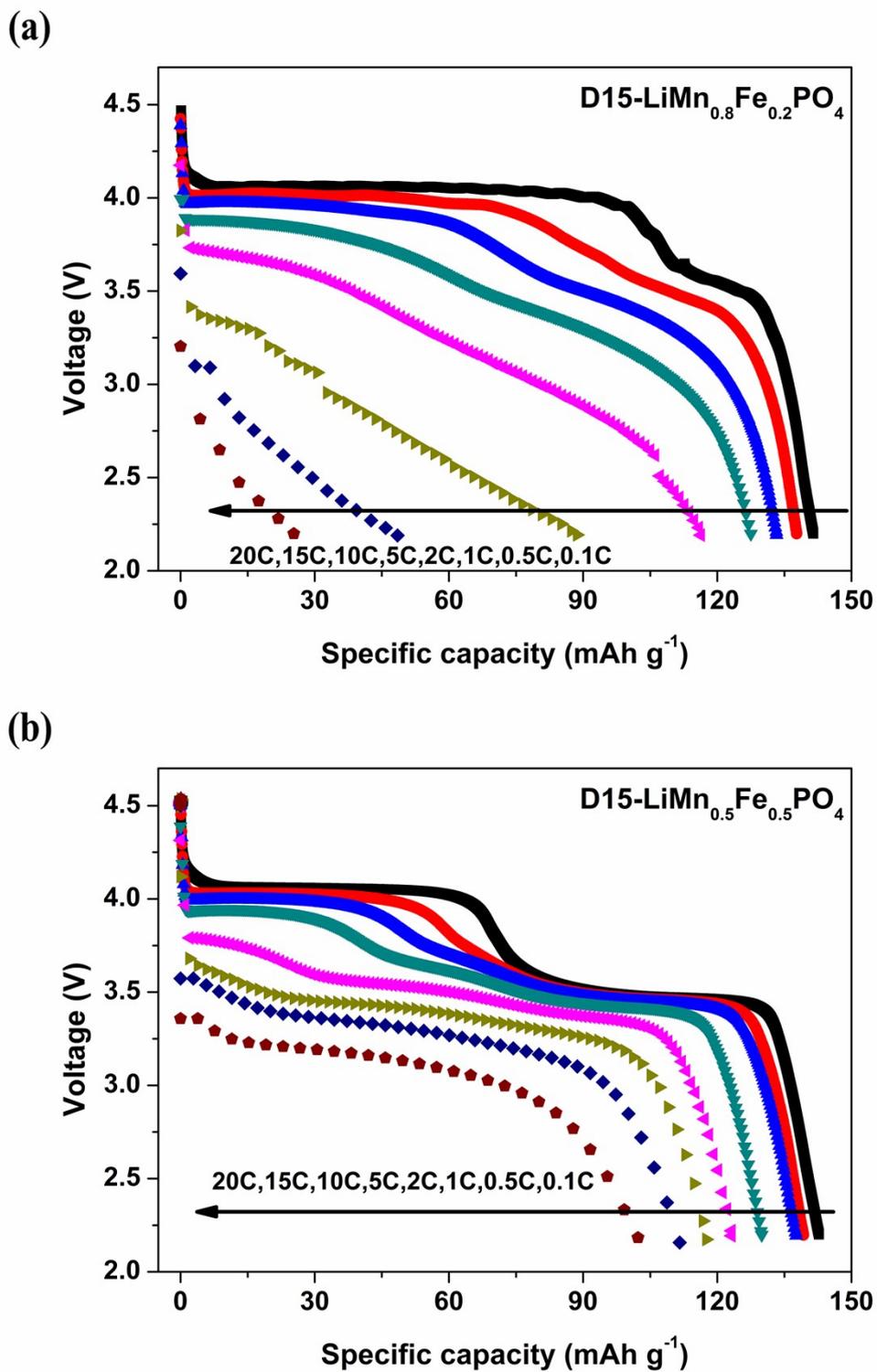
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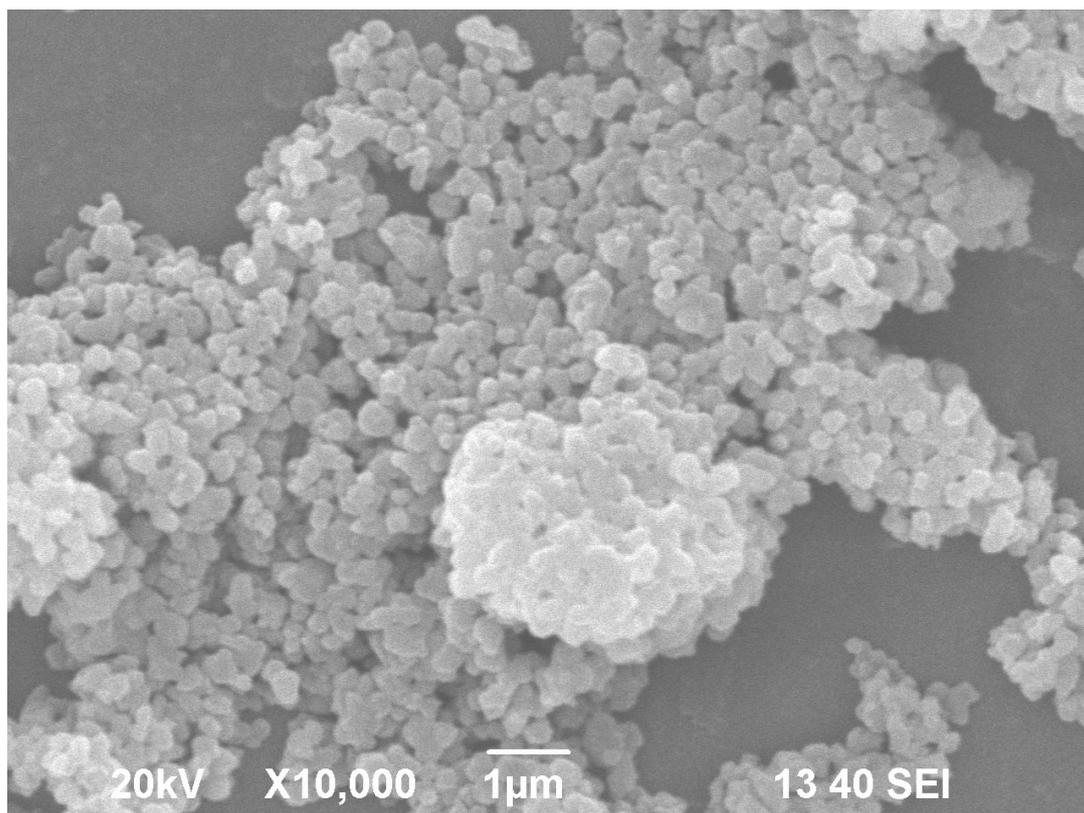
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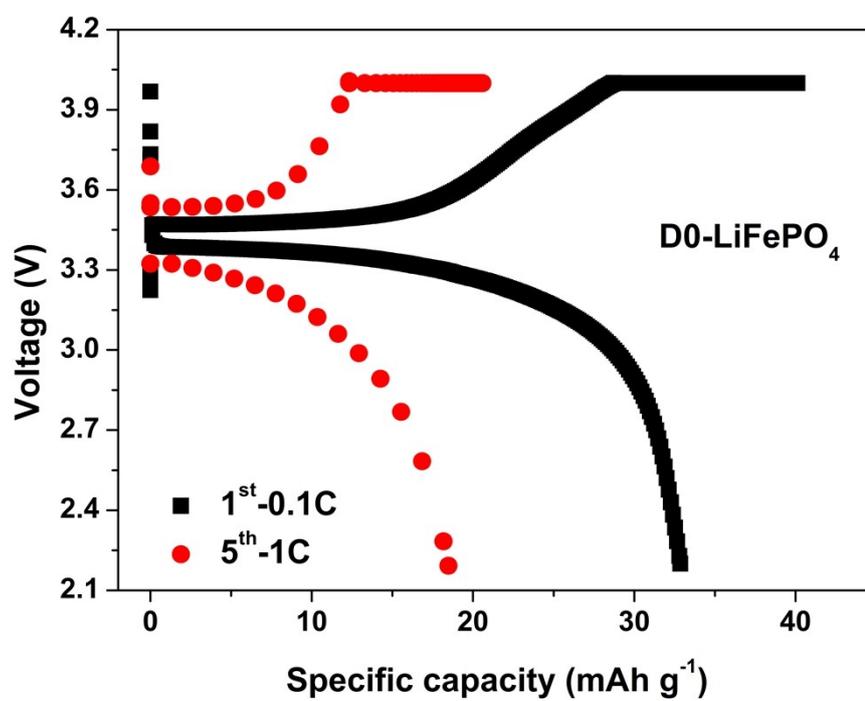
**Fig. S1** The N<sub>2</sub>-adsorption/desorption curves (a-b), and pore size distributions (c-d) of samples D8- and D15-LiMn<sub>0.5</sub>Fe<sub>0.5</sub>PO<sub>4</sub>.



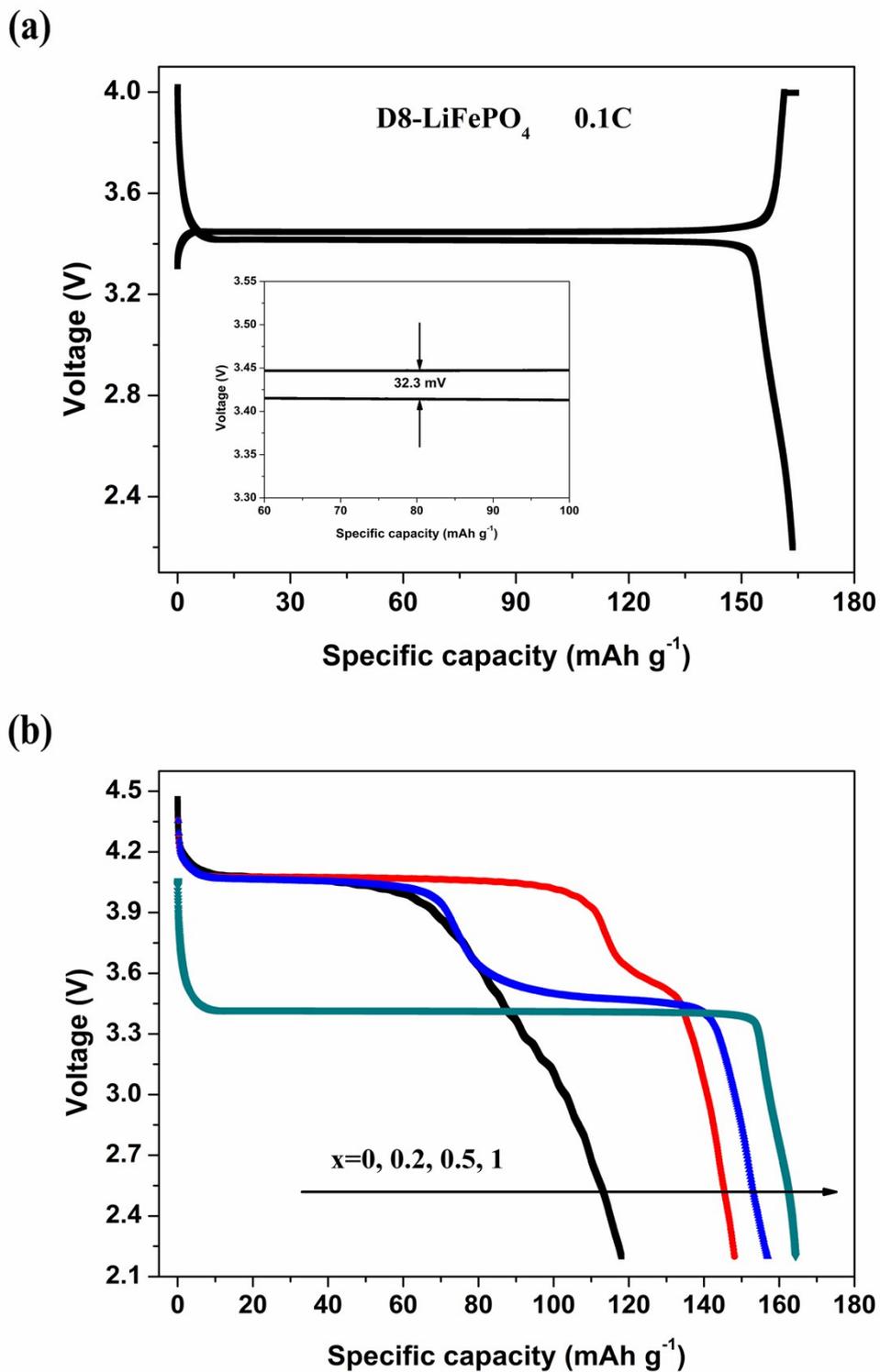
**Fig. S2** The discharge curves of D15-LiMn<sub>0.8</sub>Fe<sub>0.2</sub>PO<sub>4</sub> (a) and D15-LiMn<sub>0.5</sub>Fe<sub>0.5</sub>PO<sub>4</sub> (b) at different current densities.



**Fig. S3** The SEM image of D0-LiFePO<sub>4</sub>.



**Fig. S4** The electrochemical performance of D0-LiFePO<sub>4</sub>.



**Fig. S5** The initial charge-discharge curve of D8-LiFePO<sub>4</sub> (a) and discharge curves of samples D8-LiMn<sub>1-x</sub>Fe<sub>x</sub>PO<sub>4</sub> ( $x=0, 0.2, 0.5, 1$ ) (b) at 0.1C.