Physical Chemistry Chemical Physics



Supplementary Information

Table S1 Synchrotron diffraction Rietveld refinement results for LiCo_{0.8}Fe_{0.2}MnO₄. Berar & Lelann ³¹ corrected estimated standard deviations are given in parentheses.

Atom	x=y=z	a (Å)	R _{wp} (%)	Fraction of second spinel phase (%)
Li _{8a}	1/8			
Co/Mn/Fe _{16d}	1/2	8.09367(4)	8.68	< 1
O 32e	0.2623(2)			



Fig. S1 SEM images of pristine LiCo_{0.8}Fe_{0.2}MnO₄.

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Fig. S2 Results of the *in situ* XAS measurements on the Co-K-edge of LiCo_{0.8}Fe_{0.2}MnO₄. (a) The XAS spectra acquired during the charge process (oxidation) and (b) the spectra acquired during the discharge process (reduction).



