

Electronic Supplementary Information

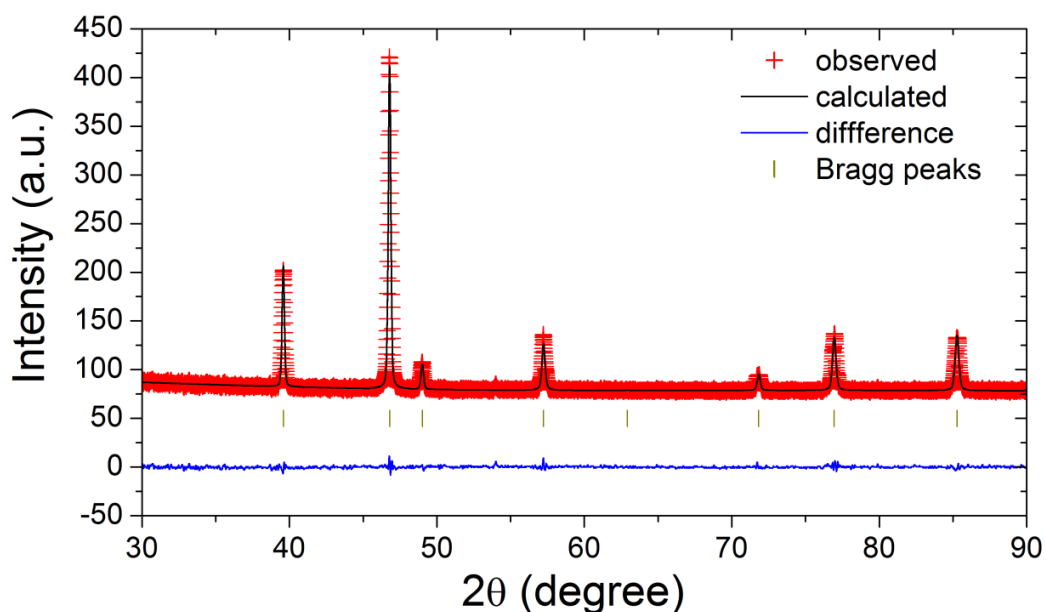


Fig. S1 Rietveld refinement of the XRD pattern of bulk Co_3O_4 with spinel structure.

Table S1: Crystallographic data for bulk Co_3O_4 after Rietveld refinement:

Fd-3m , $a = 8.08419(6) \text{ \AA}$, $V = 528.335(7) \text{ \AA}^3$.

Atom	x/a	y/b	z/c	multi	occupancy
Co1	0.625	0.625	0.625	8	1.000
Co2	0.000	0.000	0.000	16	1.000
O3	0.26504(27)	0.26504(27)	0.26504(27)	32	1.000

$R_{\text{wp}} = 10.41\%$, $R_{\text{p}} = 8.27\%$,

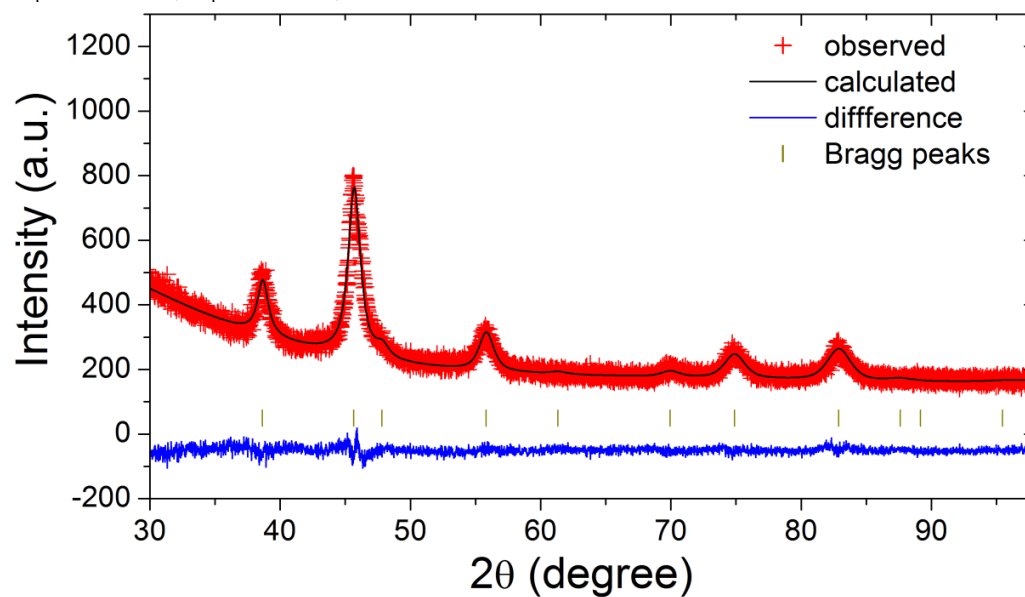


Fig. S2 Rietveld refinement of the XRD pattern of m-NiCoMnO₄-700.

Table S2: Crystallographic data for m-NiCoMnO₄-700 after Rietveld refinement:
Fd-3m, $a = b = c = 8.281(3)$ Å, $V = 567.9(6)$ Å³.

Atom	x/a	y/b	z/c	multi	occupancy
Ni1	0.625	0.625	0.625	8	1.000
Mn2	0.000	0.000	0.000	16	0.500
Co3	0.000	0.000	0.000	16	0.500
O4	0.2558(8)	0.2558(8)	0.2558(8)	32	1.000

$R_{wp} = 8.59\%$, $R_p = 6.30\%$

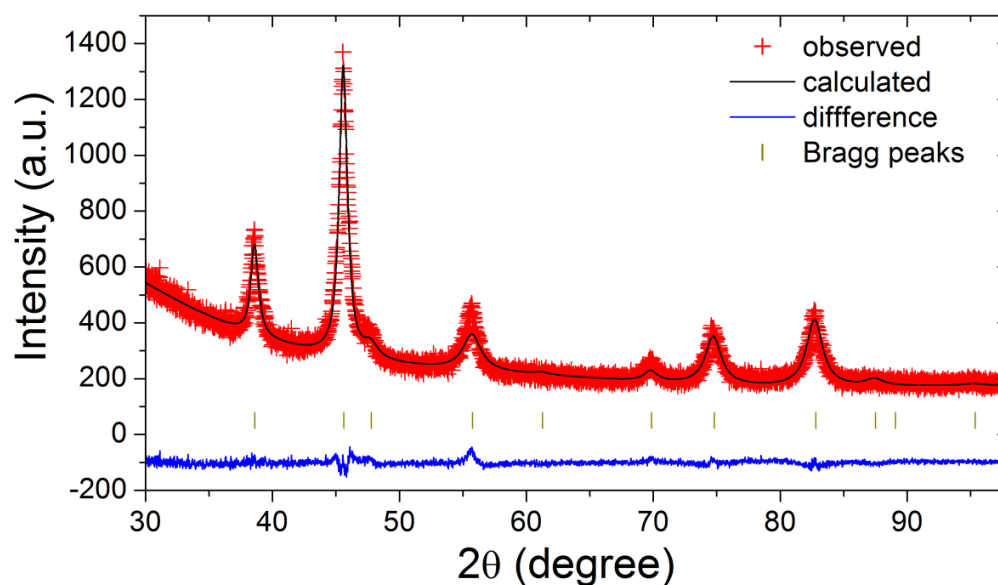


Fig. S3 Rietveld refinement of the XRD pattern of m-NiCoMnO₄-800.

Table S3: Crystallographic data for m-NiCoMnO₄-800 after Rietveld refinement:
Fd-3m, $a = b = c = 8.2819(16)$ Å, $V = 568.06(19)$ Å³.

Atom	x/a	y/b	z/c	multi	occupancy
Ni1	0.625	0.625	0.625	8	1.000
Mn2	0.000	0.000	0.000	16	0.500
Co3	0.000	0.000	0.000	16	0.500
O4	0.2591(7)	0.2591(7)	0.2591(7)	32	1.000

R-factors: $R_{wp} = 8.33\%$, $R_p = 6.20\%$.

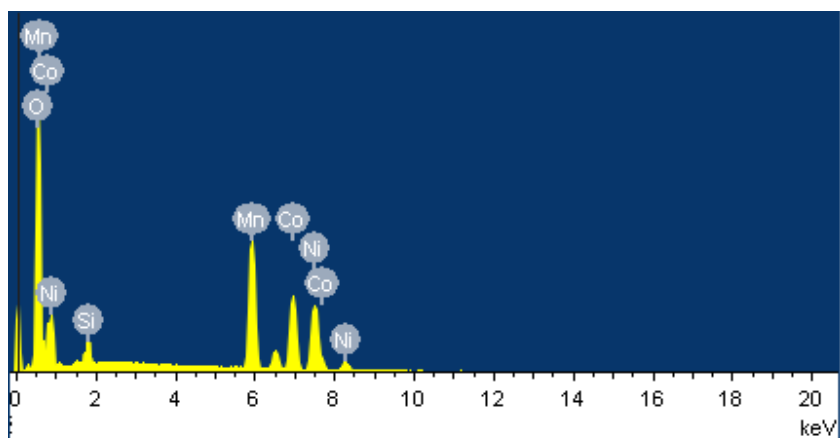


Fig. S4 EDX spectrum of m-NiCoMnO₄-800

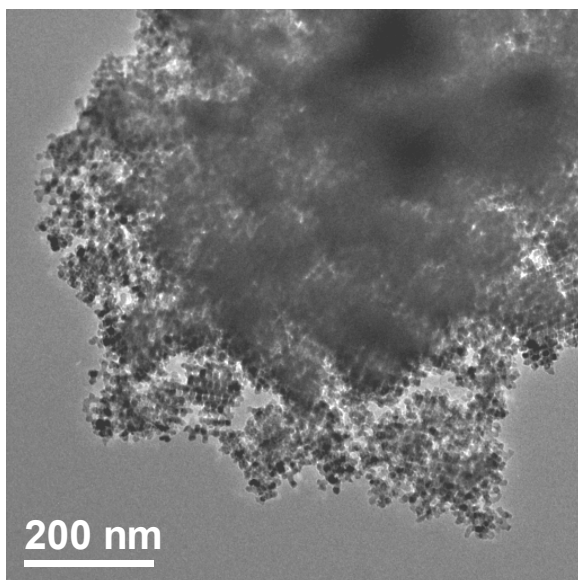


Fig. S5 Typical TEM image of m-LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ with low magnification

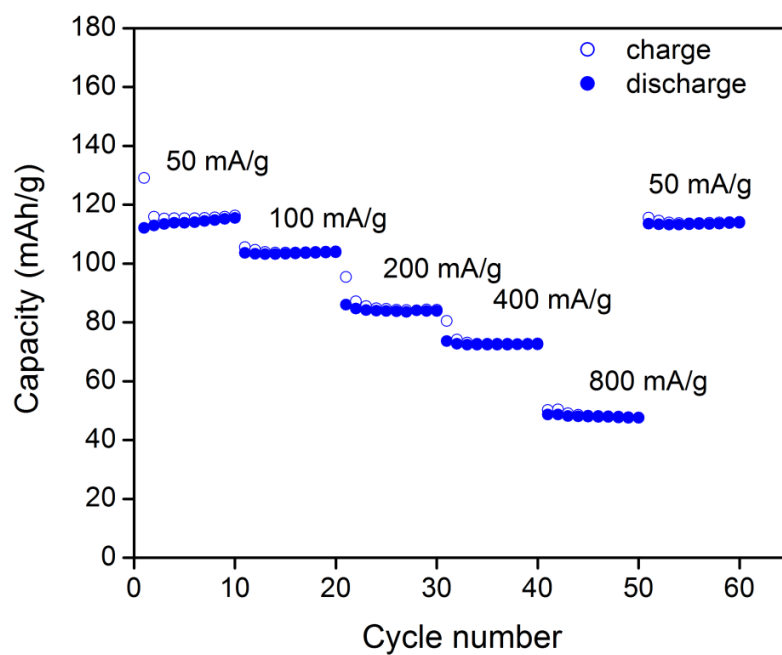


Fig. S6 Rate capability of $m\text{-LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$.