

Supporting information

Influence of cobalt content on the electrochemical properties of sheet-like $0.5\text{Li}_2\text{MnO}_3 \cdot 0.5\text{LiNi}_{1/3+x}\text{Co}_{1/3-2x}\text{Mn}_{1/3+x}\text{O}_2$ as lithium ion battery cathodes

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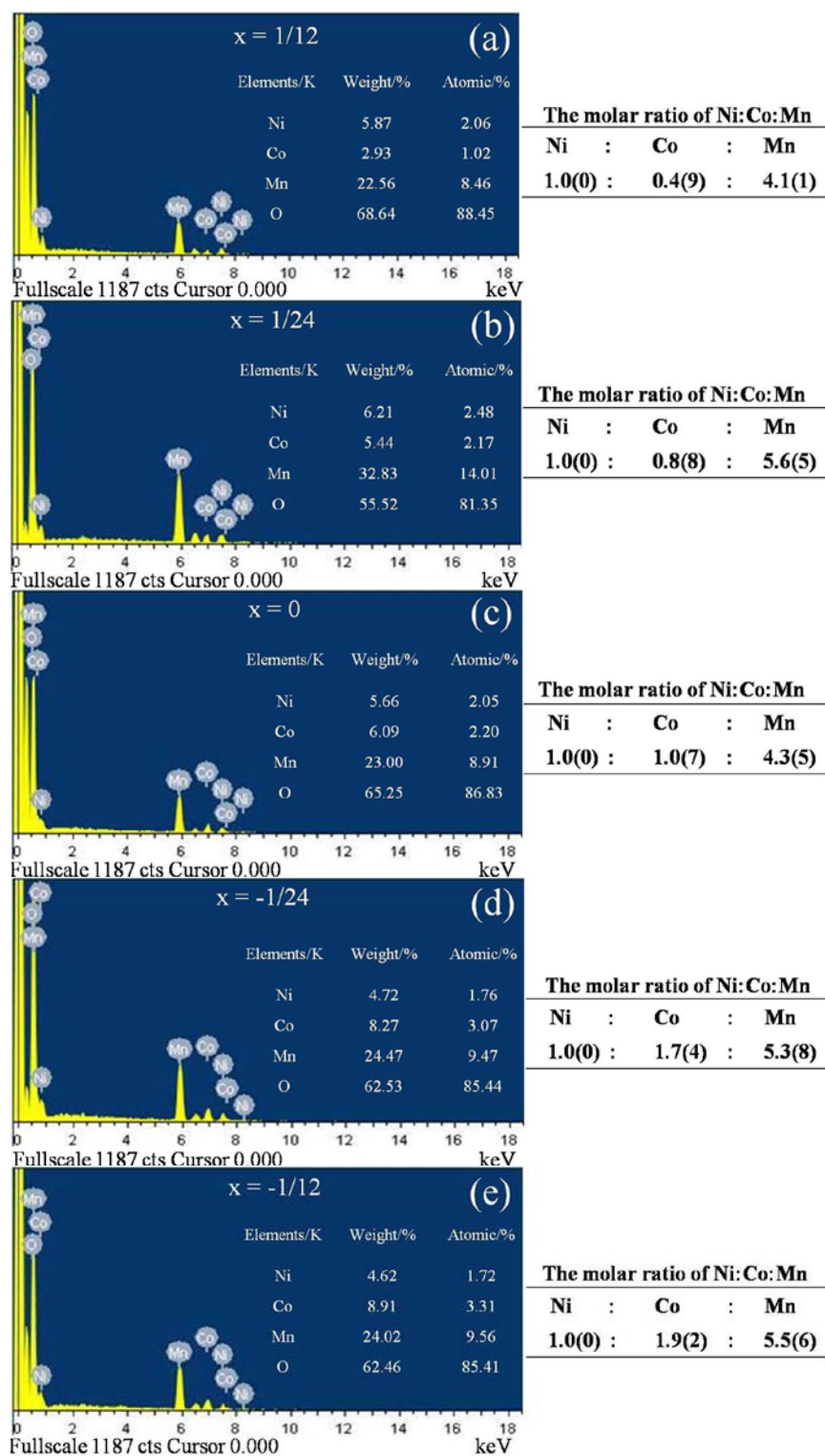


Fig. S1. EDX analysis of powdered $0.5\text{Li}_2\text{MnO}_3 \cdot 0.5\text{LiNi}_{1/3+x}\text{Co}_{1/3-2x}\text{Mn}_{1/3+x}\text{O}_2$ samples obtained at the x value of (a) $1/12$, (b) $1/24$, (c) 0 , (d) $-1/24$ and (e) $-1/12$.

Tab. S1. XRD data analysis of crystalline $0.5\text{Li}_2\text{MnO}_3 \cdot 0.5\text{LiNi}_{1/3+x}\text{Co}_{1/3-2x}\text{Mn}_{1/3+x}\text{O}_2$.

	$I_{(003)}$	$I_{(110)}$	$I_{(110)}/I_{(003)}$	$2\theta_{(110)}$
$x = 1/12$	2743	404	0.15	65.4
$x = 1/24$	3461	635	0.18	65.5
$x = 0$	3089	678	0.22	65.5
$x = -1/24$	2813	739	0.26	65.5
$x = -1/12$	3185	774	0.25	65.6

Note: $I_{(hkl)}$ represents XRD peak intensity (i.e., peak area) with a subscript index of corresponding crystal plane; 2θ denotes peak position.