

Introducing an Efficient and Eco-Friendly Spray-Drying Process for the Synthesis of NCM Precursor for Lithium-ion Batteries

Hye-Jin Park, Seong-Ju Sim, Bong-Soo Jin, and Hyun-Soo Kim*

Battery Research Division, Korea Electrotechnology Research Institute (KERI), Changwon, Republic of Korea

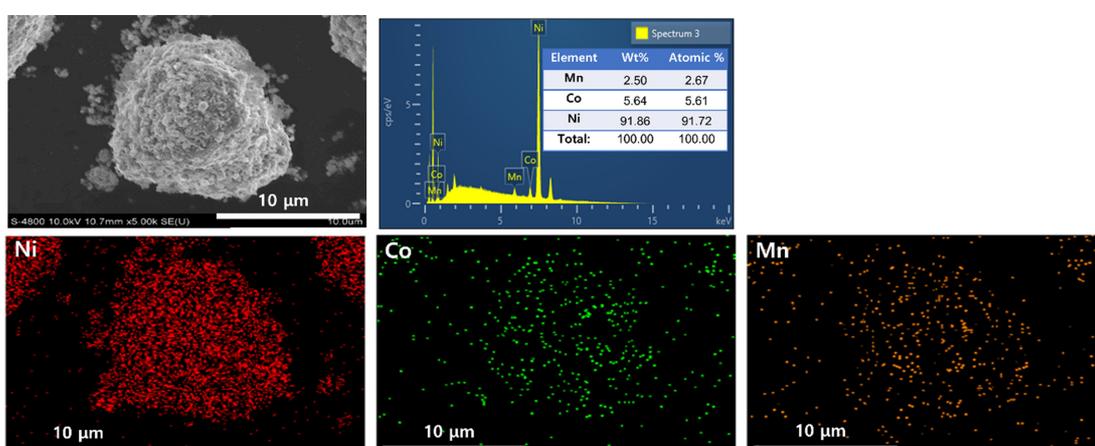


Fig. S1. SEM image and EDS mapping of $\text{LiNi}_{0.91}\text{Co}_{0.06}\text{Mn}_{0.03}\text{O}_2$.

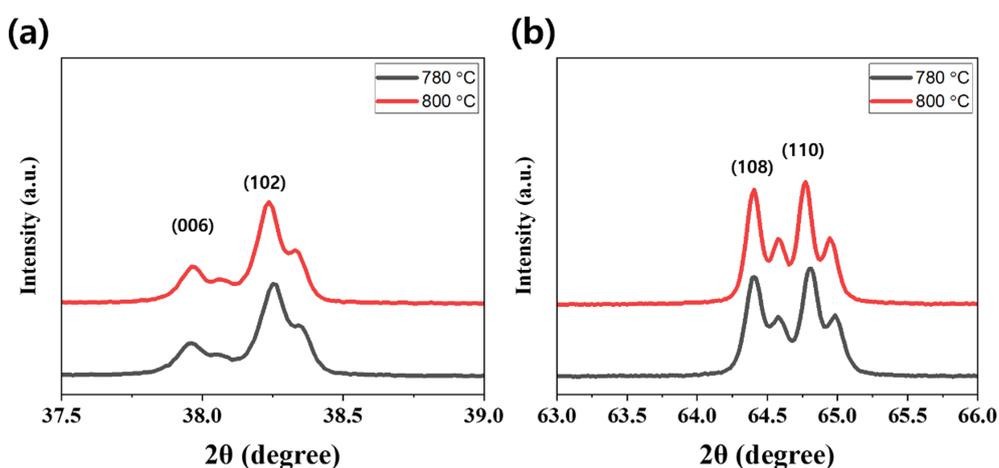


Fig. S2. Magnified view of (a) (006)/(102) and (b) (108)/(110) diffraction peaks.

*E-mail address: hskim@keri.re.kr (Hyun-Soo Kim)

DOI: <https://doi.org/10.33961/jecst.2023.00752>

This is an open-access article distributed under the terms of the Creative Commons Attribution Non-Commercial License (<http://creativecommons.org/licenses/by-nc/4.0>) which permits unrestricted non-commercial use, distribution, and reproduction in any medium, provided the original work is properly cited.

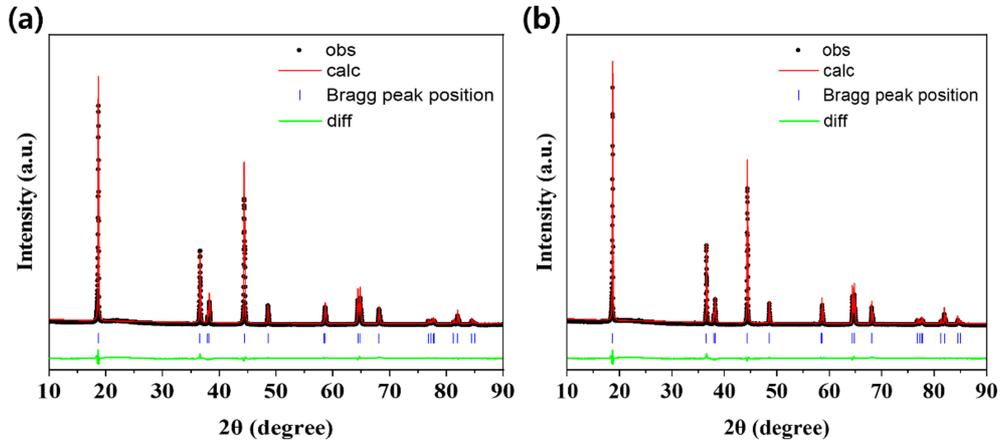


Fig. S3. Rietveld refinement results of NCM sintered at (a) 780 and (b) 800°C.

Table S1. Structural and lattice parameters of NCM sintering temperature at 780 and 800°C

	a (Å)	c (Å)	V (Å ³)	c/a	I ₍₀₀₃₎ /I ₍₁₀₄₎
780°C	2.8779	14.1925	101.8047	4.9315	1.55
800°C	2.8737	14.1880	101.4742	4.9372	1.59