

Supporting information

Figure S1.

TG-DTA profiles of mixed powders of Mn, LiOH·H₂O, and fluxes under heating rate of 15 °C/min: (a) flux free, (b) KCl, (c) KOH, and (d) KNO₃.

Figure S2.

Cross-sectional SEM-EDS mapping images of FIB-milled LiMn₂O₄ dot array.

Figure S3.

XRD profiles of Mn microstructures directly deposited on Pt substrates after heating at 500 °C for (a) 10 h and (b) 20 h under O₂ flow atmosphere.

Figure S4.

(a) Cross-sectional SEM-EDS mapping images of the Ni/Co/Mn stacked microstructures. (b) XRD profiles of the Ni/Co/Mn stacked microstructures after the flux growth in molten KCl at 900 °C for 1 h under air atmosphere (top layer), LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ (PDF 56-0147, middle layer), and LiMn₂O₄ (PDF 70-8342, bottom layer).