Electronic Supplementary Material (ESI) for RSC Advances. This journal is © The Royal Society of Chemistry 2022

Section S2

X-ray imaging (XNI) experiments on the secondary particle extracted from LiNi $_{0.8}$ Co $_{0.1}$ Mn $_{0.1}$ O $_2$ cathode using the milling method were performed at the 7C XNI beamline, PAL. X-ray energy was fixed to 8332.8 eV for tomography measurements, and the sample was rotated from 0 to 180° with a step size of 1°. These images were reconstructed using the OCTOPUS program, and volume rendering was done by AVIZO processing software.