Electronic Supplementary Material (ESI) for RSC Advances.

Supplementary material

Facile synthesis of well-shaped spinel $LiNi_{0.5}Mn_{1.5}O_4$ nanoparticles as cathode materials for lithium ion batteries

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Fig. S1. SEM images of the (a) LNMO nanoparticles and (b) LNMO nanorods.

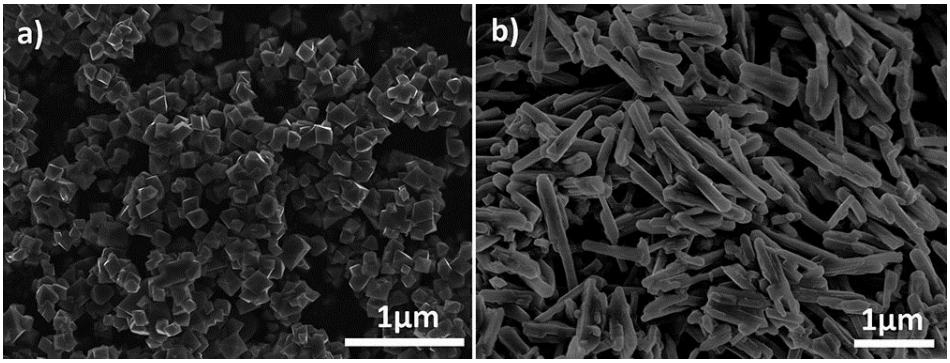

Fig. S2. (a) SEM image and (b-d) elemental mapping images of the LNMO nanoparticles.

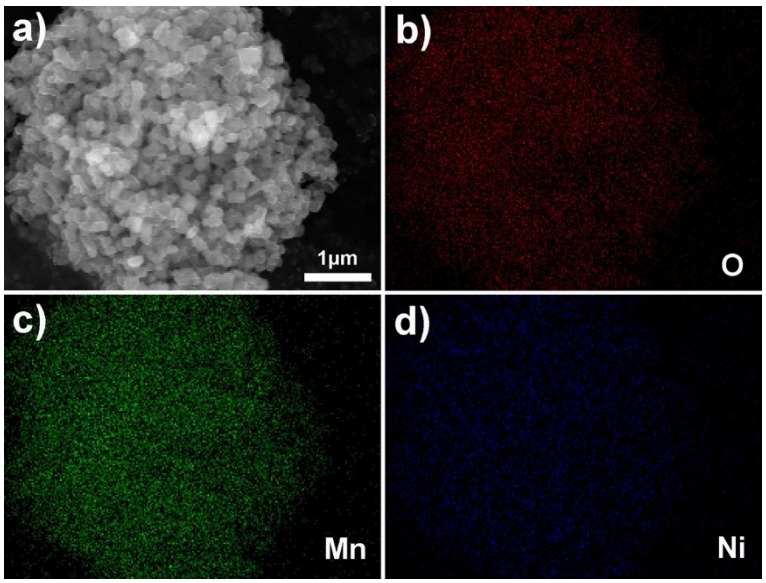

Fig. S3. EDX pattern of the as-prepared LNMO nanoparticles. (The signal of C element originates from the substrate.)

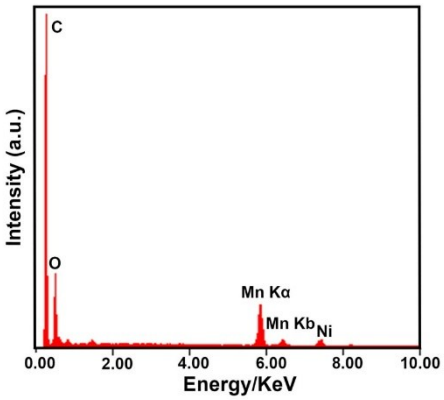

Fig. S4. (a and c) XRD patterns and (b and d) SEM images of the α-MnO_2 nanorods (a, b) and LNMO nanoparticles (c, d), respectively.

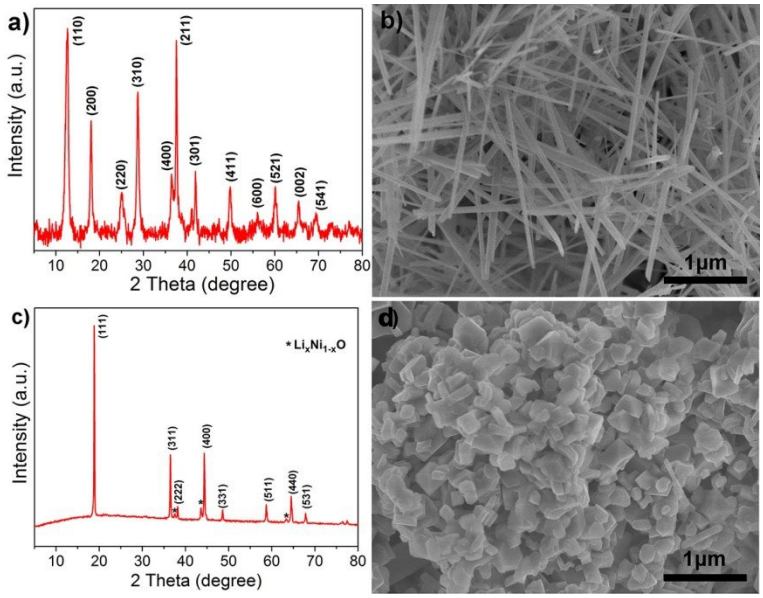

Fig. S5. SEM image of the LNMO nanoparticles after galvanostatic charge-discharge measurements at 1 C for 100 cycles.