

Supporting Information

Ethanol-assisted hydrothermal synthesis of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ with excellent long-term cyclability at high rate for lithium-ion batteries

Yuan Xue^a, Zhenbo Wang^{a*}, Fuda Yu^a, Yin Zhang^a and Geping Yin^a

^a School of Chemical Engineering and Technology, Harbin Institute of Technology, No.92

West-Da Zhi Street, Harbin 150001, China

* Corresponding author. Tel.: +86-451-86417853; Fax: +86-451-86418616

E-mail address: wangzhibo@hit.edu.cn (Z.B. Wang)

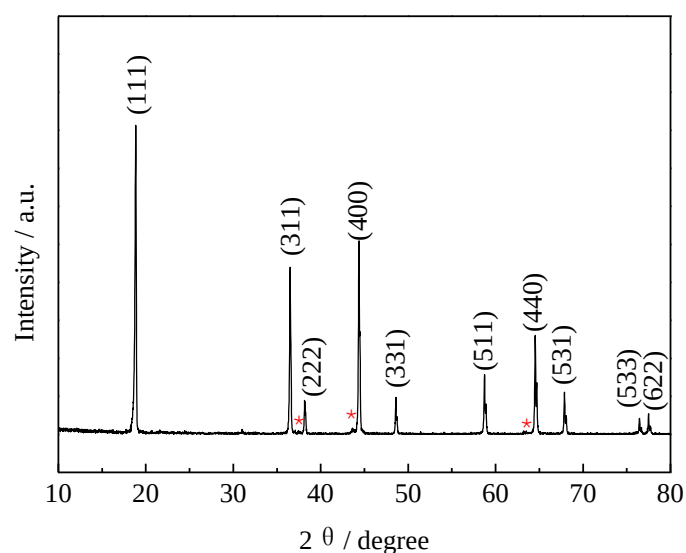


Fig. S1. XRD pattern of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ synthesized by hydrothermal method.

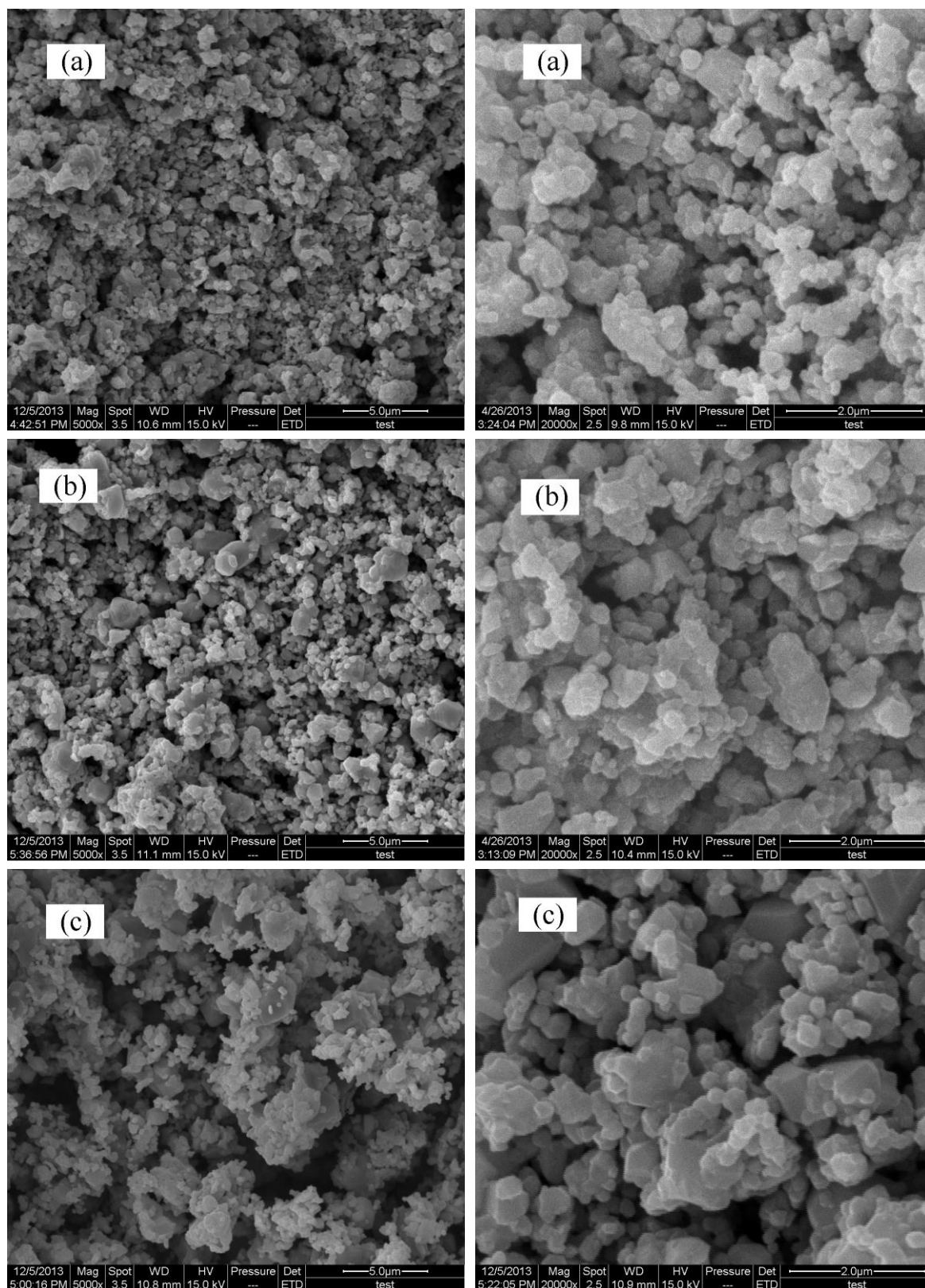


Fig. S2. SEM micrographs of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ synthesized by (a) ethanol-assisted hydrothermal method, (b) precipitation method and (c) hydrothermal method.