

Sn-Doping and Li₂SnO₃ Nano-Coating Layer Co-Modified LiNi_{0.5}Co_{0.2}Mn_{0.3}O₂ with Improved Cycle Stability at 4.6 V Cut-off Voltage

Huali Zhu ¹, Rui Shen ¹, Yiwei Tang ², Xiaoyan Yan ³, Jun Liu ³, Liubin Song ⁴, Zhiqiang Fan ¹, Shilin Zheng ² and Zhaoyong Chen ^{3,*}

¹ School of Physics and Electronic Science, Changsha University of Science and Technology, Changsha 410114, China; juliezhu2005@126.com (H.Z.); 18271692161@163.com (R.S.); zqfan@csust.edu.cn (Z.F.)

² Qinyuan Jiazhi Institute Co. Ltd., Qingyuan, 511517, China; tangyiwei@jiana.com (Y.T.); zhengshilin@jiana.com (S.Z.)

³ School of Materials Science and Engineering, Changsha University of Science and Technology, Changsha 410114, China; richardhipower@126.com (X.Y.); liujun@stu.csust.edu.cn (J.L.)

⁴ School of Chemistry and Food Engineering, Changsha University of Science and Technology, Changsha 410114, China; liubinsong1981@126.com (L.S.)

* Correspondence: chenzhaoyongcioc@126.com

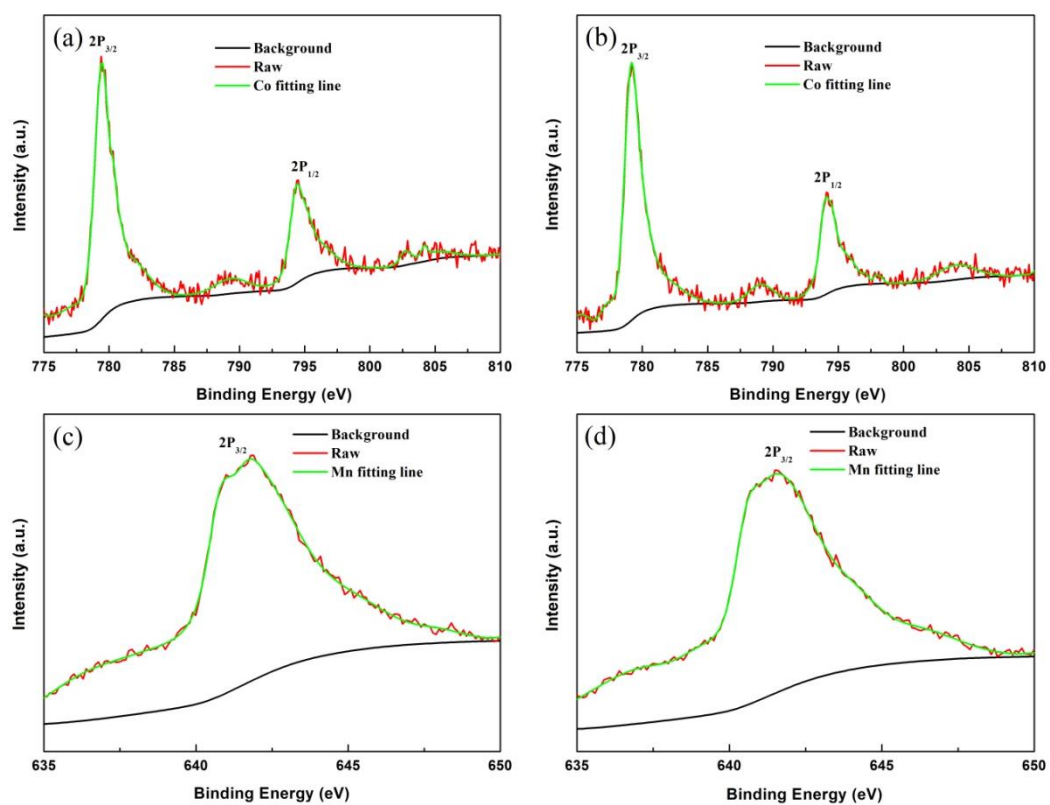


Figure S1. XPS spectra of the synthesized materials: Co 2p_{3/2} (a), Mn 2p_{3/2} (c) spectra of M523, Co 2p_{3/2} (b), Mn 2p_{3/2} (d) spectra of MS3.