

Supporting Information for

**Facile synthesis and characterization of a SnO₂-modified
LiNi_{0.5}Mn_{1.5}O₄ high-voltage cathode material with superior
electrochemical performance for lithium ion batteries**

Feng Ma, Fushan Geng, Anbao Yuan* and Jiaqiang Xu

Department of Chemistry, College of Sciences, Shanghai University, Shanghai
200444, P.R. China

*Corresponding author.

E-mail address: abyuan@shu.edu.cn (A. Yuan); Tel: +86 21 66138003

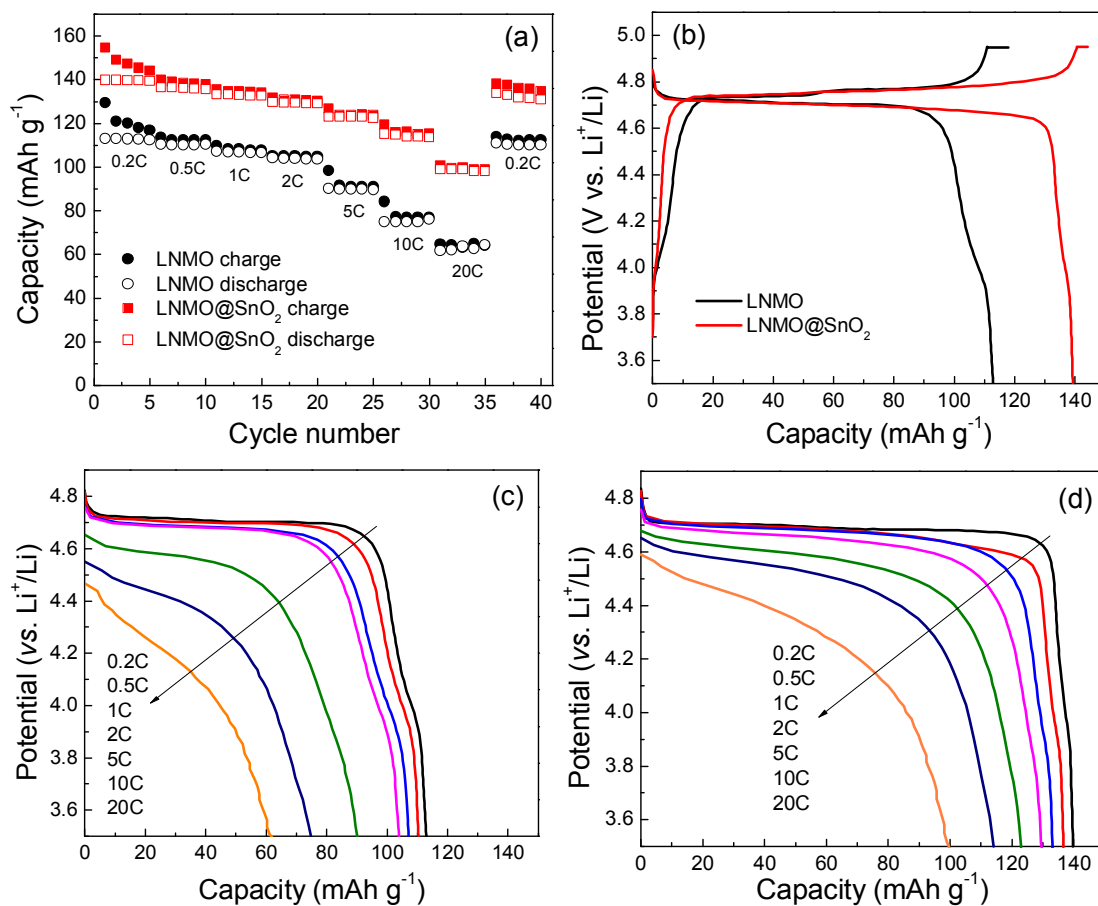


Fig. S1 (a) Rate performances and (b) charge/discharge curves at 0.2C rate of LNMO and LNMO@SnO₂. Typical discharge profiles of (c) LNMO and (d) LNMO@SnO₂ at different C-rates. The electrode active material mass loading is of *ca.* 4 mg cm⁻².

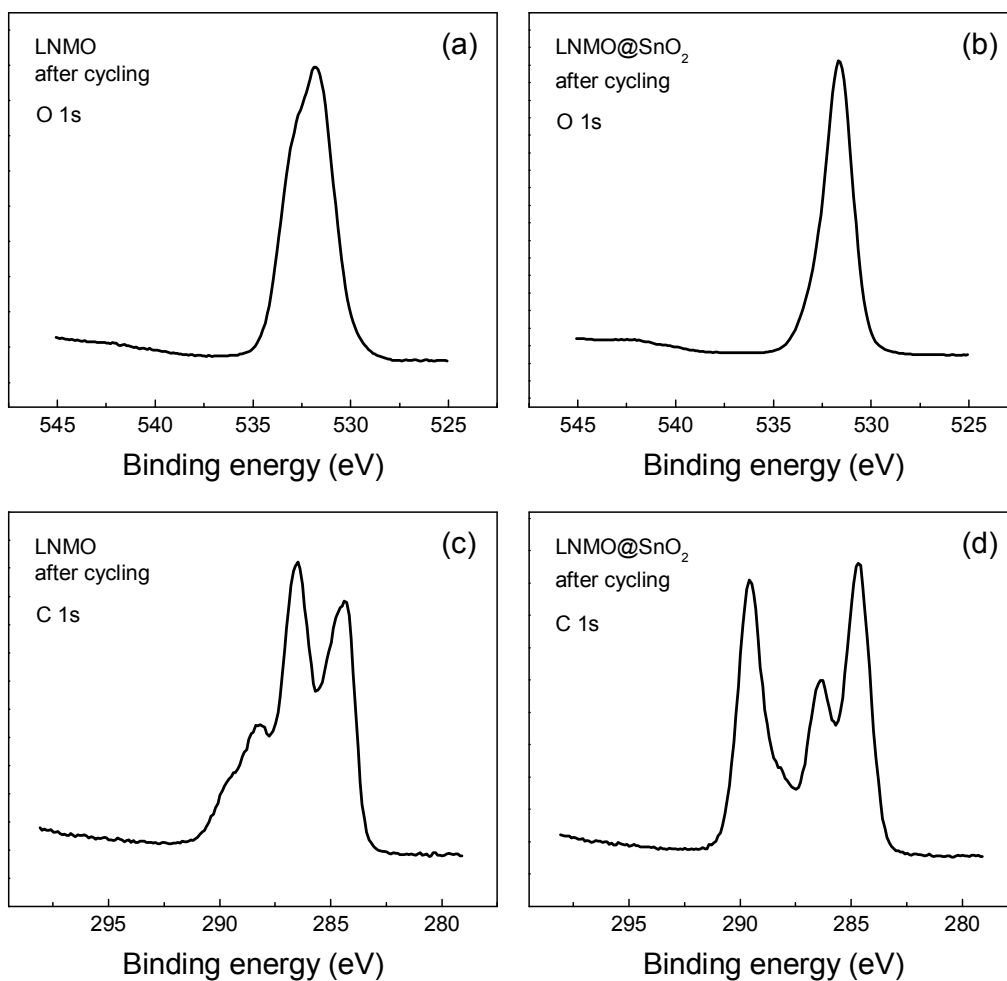


Fig. S2 O 1s XPS spectra of (a) LNMO and (b) LNMO@SnO₂ electrodes, and C 1s XPS spectra of (c) LNMO and (d) LNMO@SnO₂ electrodes, after cycling at 2C rate for 10 cycles (at discharged state).