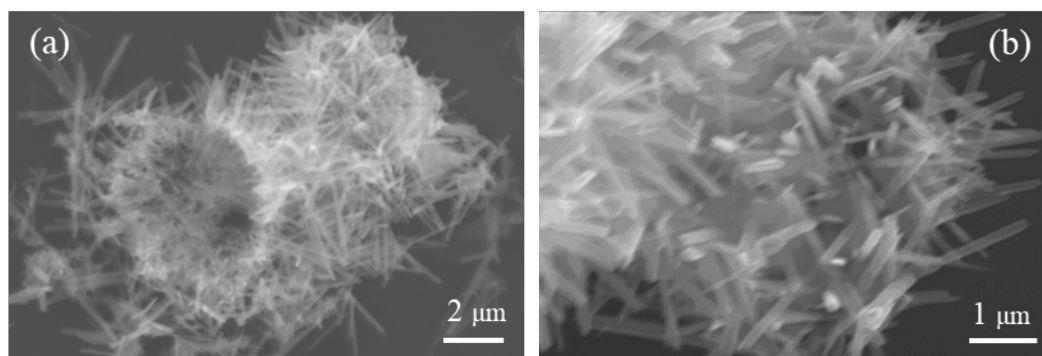
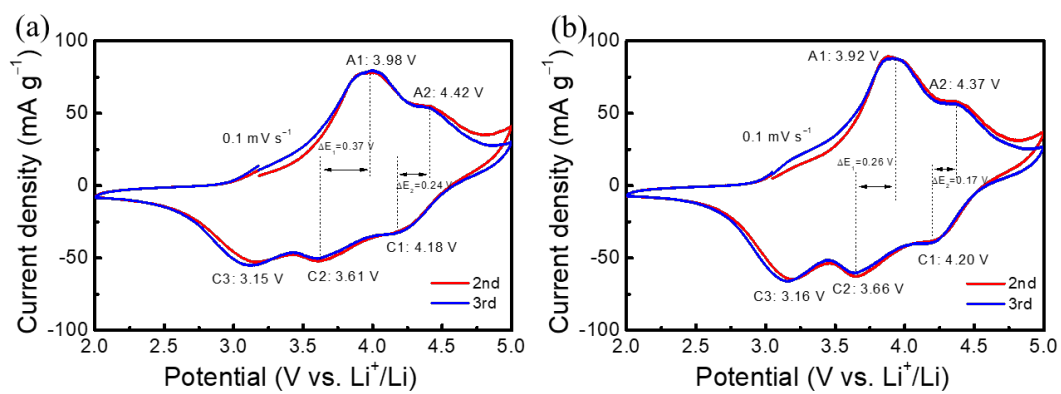


Electrochemical Performance of Nanorod-like (La, Zr) Co-Doped Li-rich  
 $\text{Li}_{1.2}\text{Ni}_{0.2}\text{Mn}_{0.6}\text{O}_2$  Cathodes for Use in Lithium-Ion Batteries

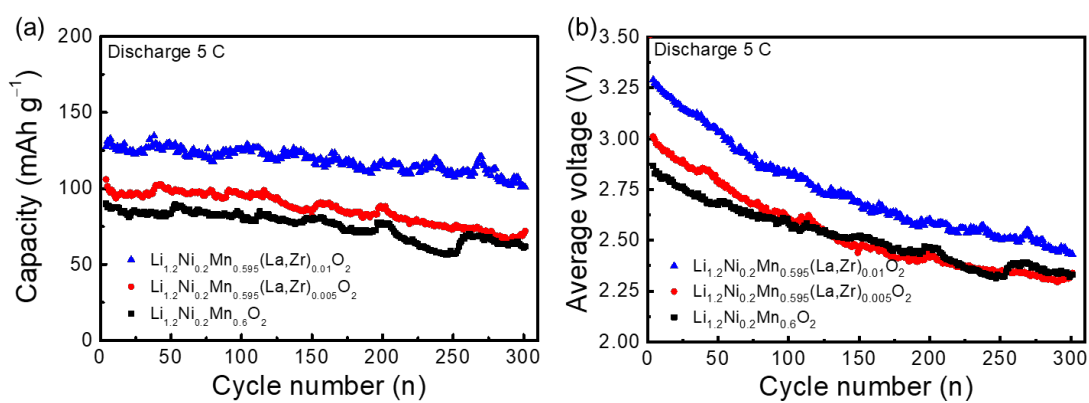
Wencong WANG, Hiromasa HANZAWA, Ken-ichi MACHIDA,  
Kohei MIYAZAKI, and Takeshi ABE



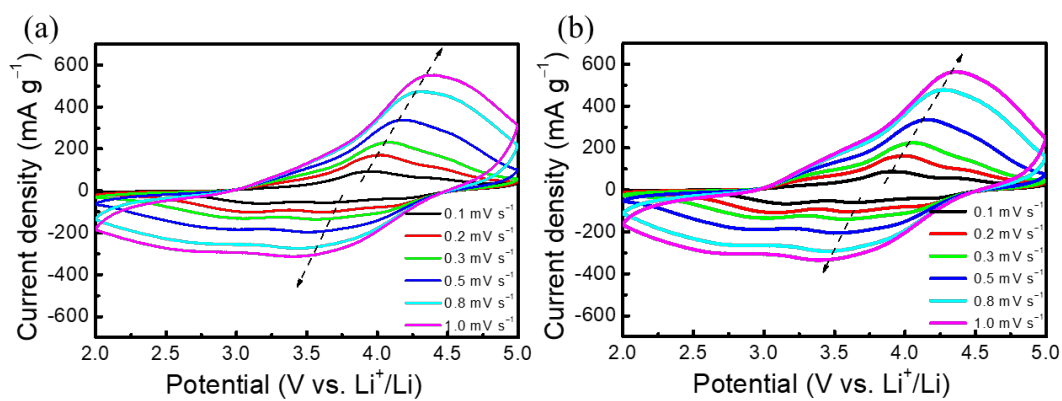
**Figure S1.** SEM images of the as-prepared  $\text{MnO}_2$  powder in high magnification.



**Figure S2.** Cyclic voltammograms of the Li-rich electrodes after the first cycle. (a) Pristine nanorod-like Li<sub>1.2</sub>Ni<sub>0.2</sub>Mn<sub>0.6</sub>O<sub>2</sub>, (b) the electrode with a molar ratio of 0.01 for (La, Zr) dopants, (Li<sub>1.2</sub>Ni<sub>0.2</sub>Mn<sub>0.59</sub>(La, Zr)<sub>0.01</sub>O<sub>2</sub>).



**Figure S3.** (a) Cycle performance of nanorod-like  $\text{Li}_{1.2}\text{Ni}_{0.2}\text{Mn}_{0.6-x}\text{O}_2$  ( $x = 0, 0.005$ , and  $0.01$ ) electrodes at the current density of 5C (1000 mA g<sup>-1</sup>); (b) the corresponding change of average discharge voltage decline.



**Figure S4.** CV curves at different scan rates of 0.1, 0.2, 0.3, 0.5, 0.8, and 1.0 mV s<sup>-1</sup>. (a)  $\text{Li}_{1.2}\text{Ni}_{0.2}\text{Mn}_{0.595}(\text{La}, \text{Zr})_{0.005}\text{O}_2$ , (b)  $\text{Li}_{1.2}\text{Ni}_{0.2}\text{Mn}_{0.59}(\text{La}, \text{Zr})_{0.01}\text{O}_2$ .