

Support information

Multifunction of cerium decoration on enhancing the cycling stability and rate capability of Nickel-rich layered oxide cathode

Shuaipeng Hao^{ab,1}, Dianwei Zhang^{ab,1}, Yunjiao Li^{ab,*}, Xiaoming Xi^c, Shan Wang^{ab}, Xiaohui Li^{ab},

Xingjie Shen^{ab}, Shuaiwei Liu^{ab}, Junchao Zheng^{ab}.

^aSchool of Metallurgy and Environment, Central South University, Changsha, 410083, PR China

^bEngineering Research Center of the Ministry of Education for Advanced Battery Materials, Central South University, Changsha 410083, China

^cChangsha Research Institute of Mining and Metallurgy, Changsha 410083, PR China.

¹Shuaipeng Hao and Dianwei Zhang contributed equally to this paper.

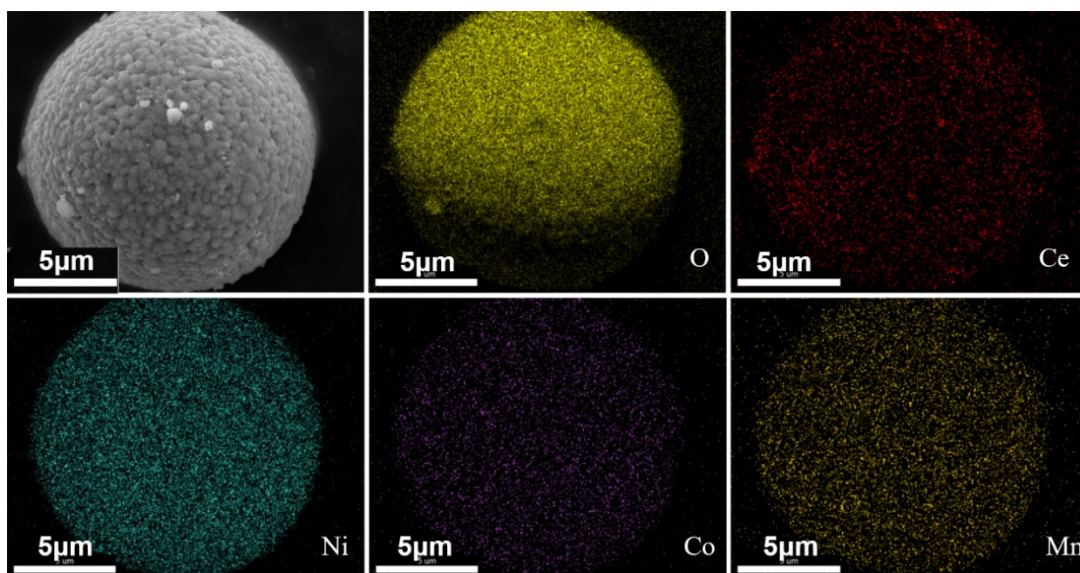


Fig. S1. The EDS elemental mapping results of Ce-NCM811.

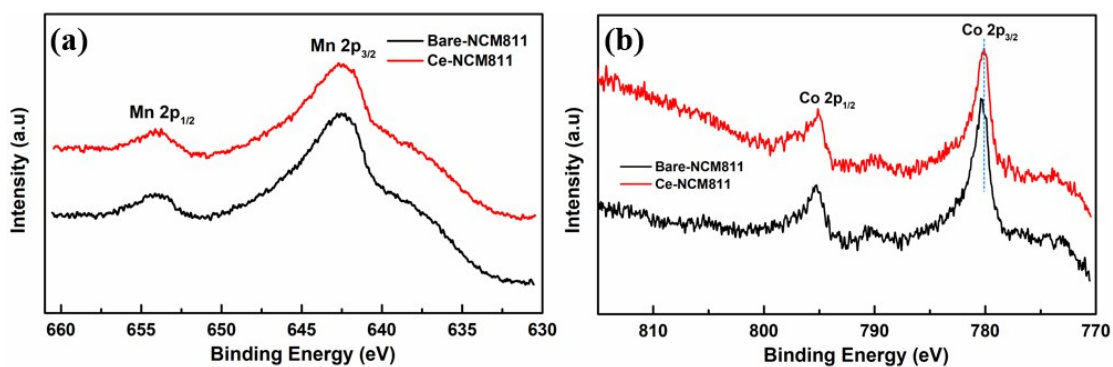


Fig. S2. XPS spectra of the Bare-NCM811 and Ce-NCM811 (a) Mn 2p; (b) Co 2p.