Supplementary Information for “Facile preparation of monodispersed NiCo$_2$O$_4$ porous microcubes as a high capacity anode material for lithium ion batteries”

Yanming Wang$^{a,b}$, Jia Li$^a$, Sheng Chen$^{a,b}$, Bing Li$^a$, Guangping Zhu$^a$, Fei Wang$^{a,b,*}$, Yongxing Zhang$^{a,*}$

$^a$Collaborative Innovation Center of Advanced Functional Composites, Huaibei Normal University, Huaibei 235000, P. R. China

$^b$Anhui Key Laboratory of Energetic Materials, Huaibei Normal University, Huaibei 235000, P. R. China

E-mail address: zyx07157@mail.ustc.edu.cn(Y. Zhang); wangfeichem@126.com (F. Wang)
**Figure S1** XRD patterns of the Ni$_{0.33}$Co$_{0.67}$CO$_3$ precursors. The purple and green lines represent the standard XRD pattern of CoCO$_3$ and NiCO$_3$, respectively (JCPDS Card No.00-011-0692, JCPDS Card No.00-012-0771).
Figure S2 SEM images of the as-prepared monodispersed Ni$_{0.33}$Co$_{0.67}$CO$_3$ submicrocubes. (a) Overall morphology; (b) low-magnification; (c) close observation; (d) high-magnification.

Figure S3 TGA curves of the Ni$_{0.33}$Co$_{0.67}$CO$_3$ microcubes under air atmosphere.
Figure S4 XPS spectra of (a) survey spectrum, (b) Ni 2p, and (c) Co 2p for the NiCo$_2$O$_4$ porous microcubes.