Design of nickel cobalt molybdate regulated by boronizing for high-performance supercapacitor applications

Gang Zhao¹, Yumeng Chen¹, Pengxiao Sun¹, Shuhua Hao, Xiaoke Wang, Guangmeng Qu, Yupeng Xing, Xijin Xu*

Laboratory of Functional Micro-nano Material and Device, School of Physics and Technology, University of Jinan, Jinan 250022, P. R. China

* Corresponding address: sps_xuxj@ujn.edu.cn or phys_xu@hotmail.com

¹These authors contributed equally to the work
Figure S1. (a-c) SEM images of \( \text{Ni}_3\text{B/NI(BO}_2\text{)}_2@\text{Ni}_x\text{Co}_y\text{MoO}_4 \) nanostructures with sodium borohydride treatment for 1 h.
Figure S2. XRD patterns of carbon cloth, calcined Ni_xCo_yMoO_4 and Ni_3B/Ni(BO_2)_2@Ni_xCo_yMoO_4 on carbon cloth substrate.
Figure S3. XPS spectra of Ni$_x$Co$_y$MoO$_4$ (a) and Ni$_3$B/Ni(BO$_2$)$_2$@Ni$_x$Co$_y$MoO$_4$ (b) in Co 2p spectra.
Figure S4. (a) CV curves of different samples in different sodium borohydride treatment times at 5 mV s\(^{-1}\), (b) GCD curves of Ni\(_3\)B/Ni(BO\(_2\))\(_2\)@Ni\(_x\)Co\(_y\)MoO\(_4\) at 2 A g\(^{-1}\), (c) capacity of Ni\(_3\)B/Ni(BO\(_2\))\(_2\)@Ni\(_x\)Co\(_y\)MoO\(_4\) at different current densities.