Supporting Information

One-step Synthesis of 3D Network-like Ni_xCo_{1-x}MoO₄ Porous Nanosheets for High Performance Battery-type Hybrid Supercapacitors

Pengxiao Sun[†], Chenggang Wang[†], Weidong He, Peiyu Hou, Xijin Xu*

[†]These authors contributed equally to this work and should be considered co-first authors. School of Physics and Technology, University of Jinan, 336 West Road of Nan Xinzhuang, Jinan, 250022, Shandong Province, Peoples Republic of China * Corresponding E-mails: sps xuxj@ujn.edu.cn

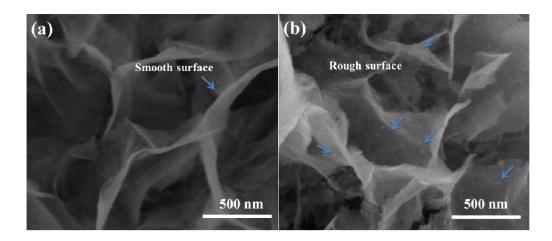


Fig. S1 SEM images: (a) the CoMoO₄ nanosheets; and (b) Ni_xCo_{1-x}MoO₄ nanosheets.

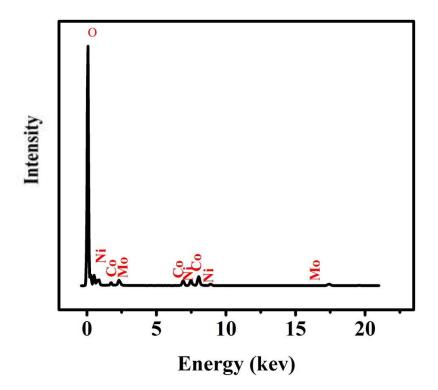


Fig. S2 EDS images of the $Ni_{0.75}Co_{0.25}MoO_4$ nanosheets.

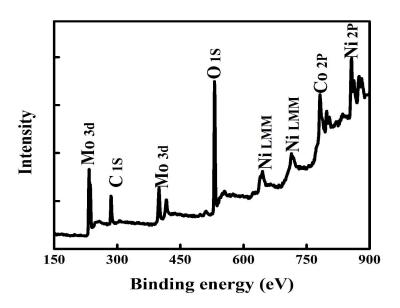
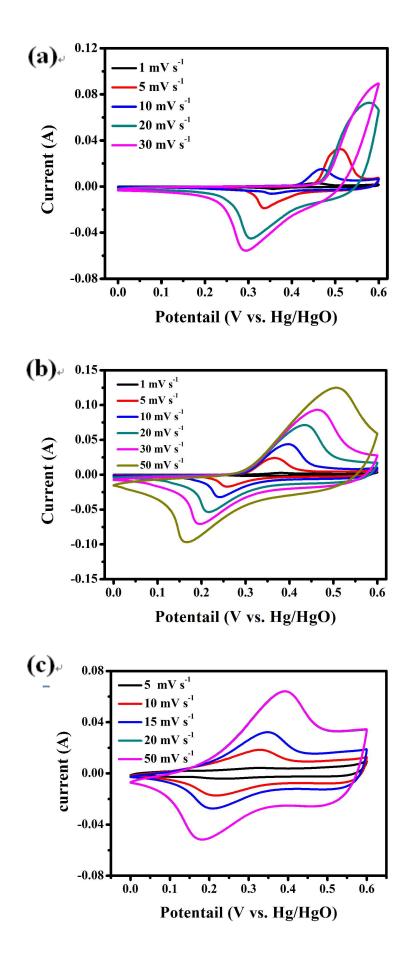


Fig. S3 XPS spectrum of $Ni_xCo_{1-x}MoO_4$ (x=0.75).



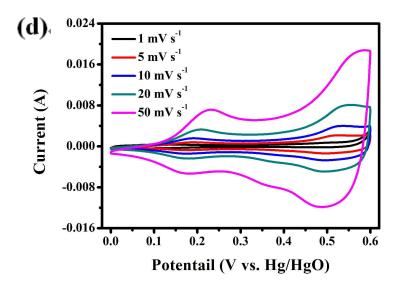
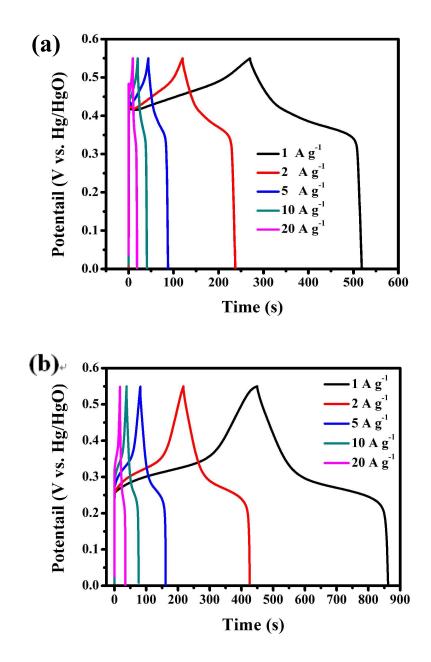


Fig. S4 CV curves of $Ni_xCo_{1-x}MoO_4$ nanosheets with different scan rates: (a) $NiMoO_4$;(b) $Ni_{0.25}Co_{0.75}MoO_4$; (c) $Ni_{0.5}Co_{0.5}MoO_4$; (d) $CoMoO_4$.



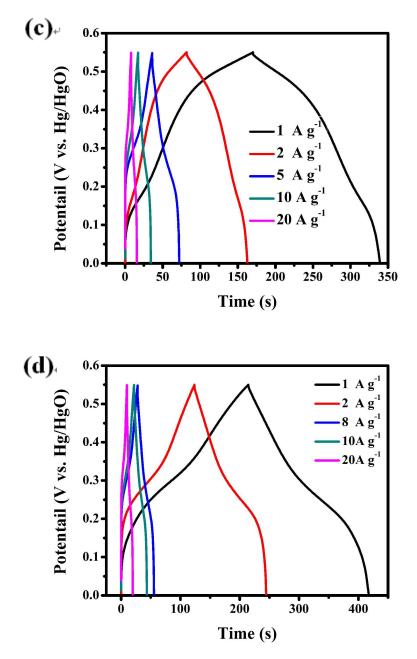


Fig. S5 GCD curves of Ni_xCo_{1-x}MoO₄ at different current densities: (a) NiMoO₄ (b) Ni_{0.5}Co_{0.5}MoO₄(c) Ni_{0.75}Co_{0.25}MoO₄ (d) CoMoO₄.

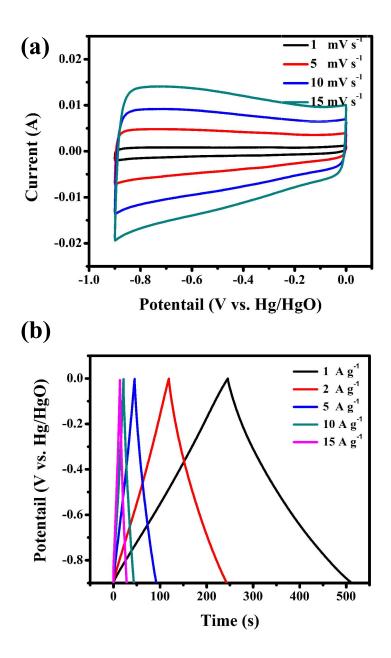


Fig. S6 (a) CV curves of activated carbon with different scan rates; (b) GCD curves of activated carbon at different current densities.

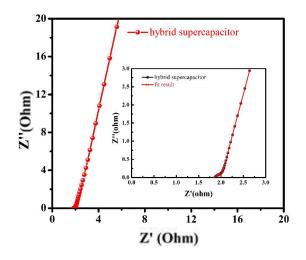


Fig. S7 the typical EIS result of the full cell by fitting the Nyquist plots.

Table S1 Th	e EIS	simulation	of hybrid	supercapacitors

electrodes	Rs/Ω	Rct/Ω
hybrid supercapacitors	1.88	0.17