Supporting Information

Amorphous mesoporous nickel phosphate/reduced graphene oxide with superior performance for electrochemical capacitors

Jingjing Yuan [1, 2], Xiaoke Zheng [2], Dachuan Yao [2], Ling Jiang [2], Ya Li [2], Jianfei Che [1*], Guangyu He [2], Haiqun Chen [2*]

([1]School of Chemical Engineering, Nanjing University of Science and Technology, Nanjing, Jiangsu 210094, China

[2]Advanced Catalysis and Green Manufacturing Collaborative Innovation Center, Key Laboratory of Advanced Catalytic Materials and Technology, Changzhou University, Changzhou, Jiangsu 213164, China)

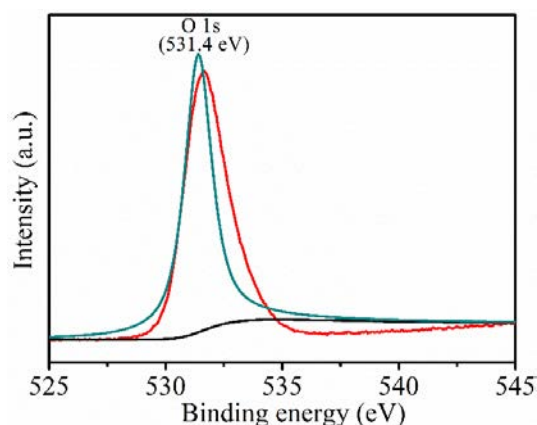The XPS spectra of O 1s is presented in Fig. S1, which is a typical peak at 531.4 eV.

Figure S1. XPS spectra of element O in $Ni_3(PO_4)_2$/rGO-300.

The FTIR spectra of GO, $Ni_3(PO_4)_2$-300 and $Ni_3(PO_4)_2$/rGO-300 is presented in Fig. S2.
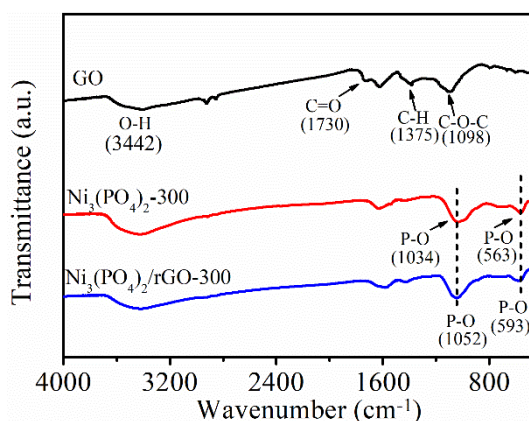
Figure S2. FTIR spectra of GO, $Ni_3(PO_4)_2$-300 and $Ni_3(PO_4)_2$/rGO-300.

The TGA curve of $Ni_3(PO_4)_2$/rGO-300 and $Ni_3(PO_4)_2$-300 is shown in Fig. S3.
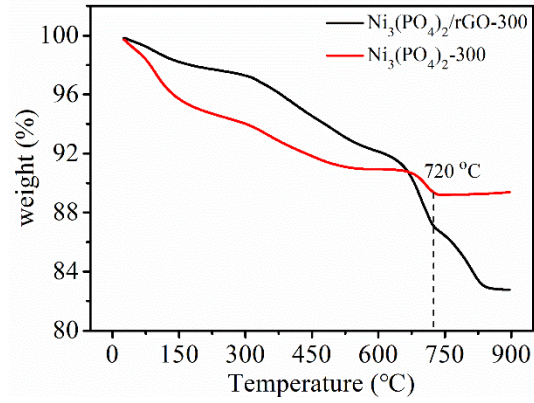
Figure S3. TGA curve of $Ni_3(PO_4)_2/rGO$-300 and $Ni_3(PO_4)_2$-300 in Nitrogen.

The BET isotherms of $Ni_3(PO_4)_2/rGO$-900 is shown in Fig. S4 and there is almost no specific

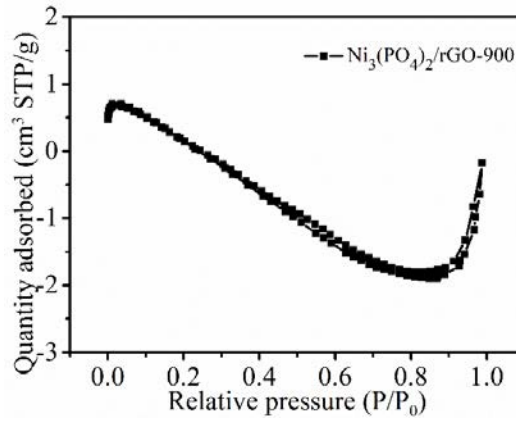surface area, indicating significant decrease of the surface area in the condition.

Figure S4. N_2 adsorption-desorption isotherm of $Ni_3(PO_4)_2/rGO$-900.

Fig. S5 shows the Nyquist plots of $Ni_3(PO_4)_2/rGO$-300//AC.
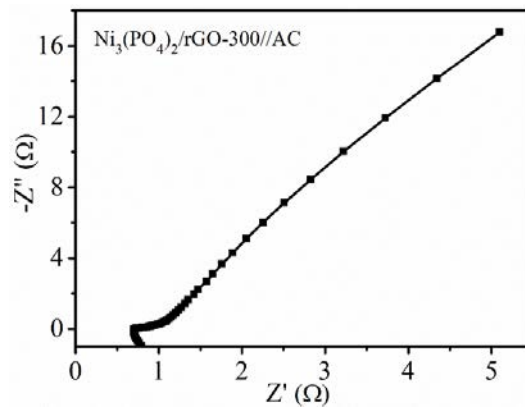
Figure S5. Nyquist plots of $Ni_3(PO_4)_2/rGO$-300//AC