Elctronic Supplementary information (EIS) *for*

Poring graphene to encapsulate $Na_{6.24}Fe_{4.88}(P_2O_7)_4$ as composite cathode materials for Na-ion batteries

Yubin Niu[a,b], Maowen Xu[a,b,*], Shu-Juan Bao[a,b] and Chang Ming Li[a,b,*]

a. Institute for Clean Energy & Advanced Materials, Faculty of Materials and Energy, Southwest University, Chongqing 400715, P.R. China.

b. Chongqing Key Laboratory for Advanced Materials and Technologies of Clean Energies, Chongqing 400715, P.R. China.

E-mail: ecmli@swu.edu.cn or xumaowen@swu.edu.cn

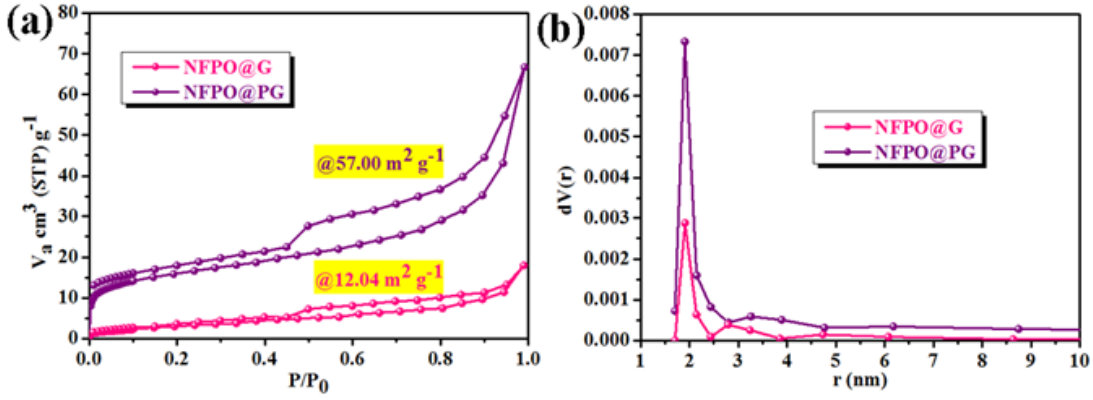

Fig. S1 Nitrogen sorption isotherm (a) and pore size distribution (b) of NFPO@G and NFPO@PG, respectively.

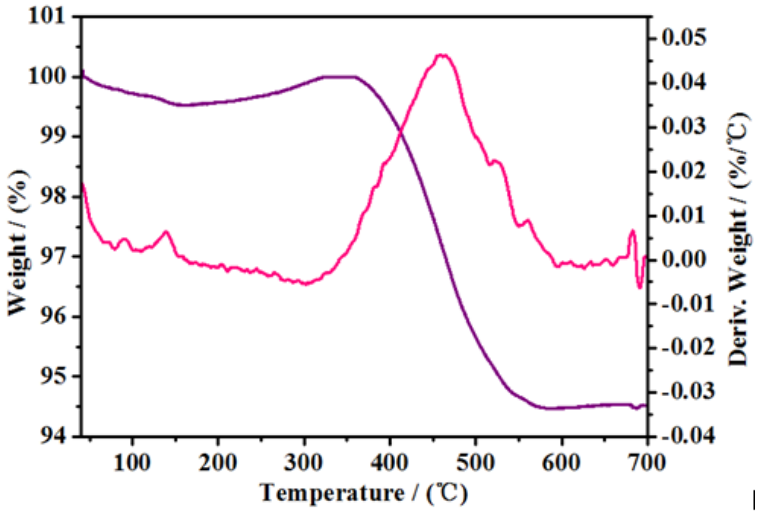

Fig. S2 TG curve of NFPO@PG.

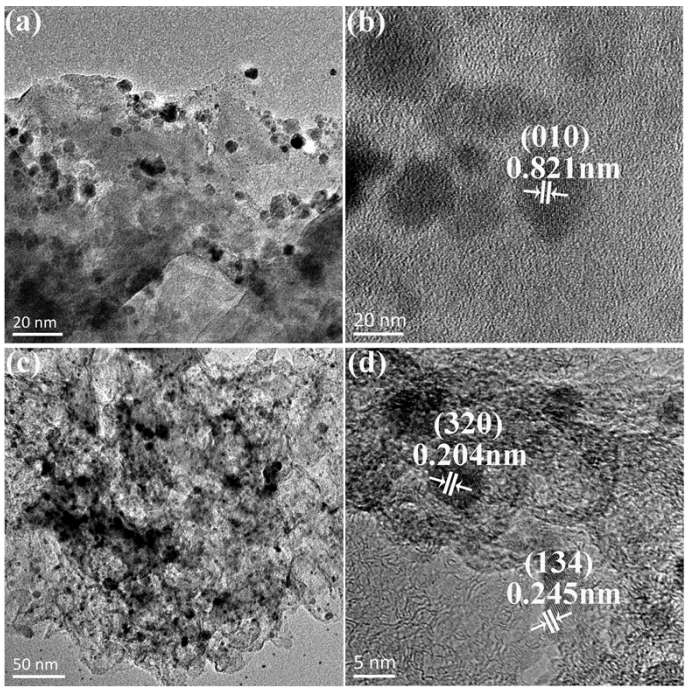

Fig. S3 TEM images of NFPO@G (a, b) and NFPO@PG (c, d). (a, c) the bright-field images, and (b, d) the HRTEM images of NFPO crystal with *d* spacing of 0.821 nm, 0.204 nm and 0.245 nm corresponding well with that of (010), (320) and (134) planes, respectively.