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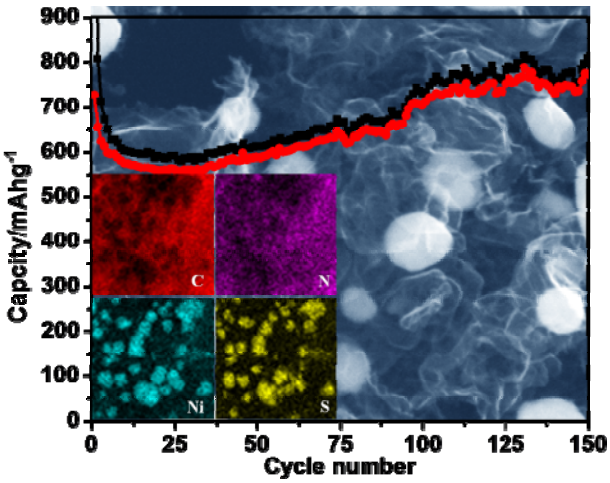
Supporting Information

One-step synthesis of Ni_3S_2 nanoparticles wrapped by *in situ* generated nitrogen-self-doped graphene sheets with highly improved electrochemical properties in Li-ion batteries

Jinliang Zhu[a], Yunyong Li[a], Shuai Kang[a], Xiao-Lin Wei[b,*], Pei Kang Shen[a,*]

State Key Laboratory of Optoelectronic Materials and Technologies, and Key Laboratory of Low-carbon Chemistry & Energy Conservation of Guangdong Province, School of Physics and Engineering, Sun Yat-sen University, 135 Xingang Road, Guangzhou, 510275, PR China

TOC



The Ni_3S_2 nanoparticles wrapped by N-self-doped graphene sheets are sucessfully synthesized and the composites show highly enhanced reversible capacity and exellent cyclability.

Additional data:

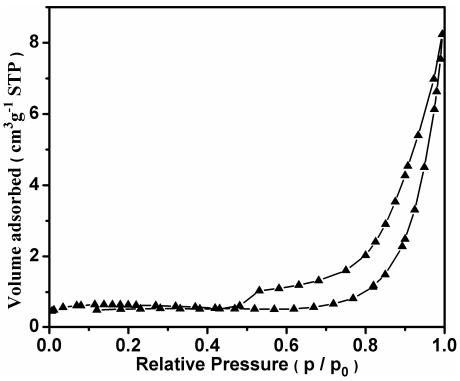


Fig. S1 Nitrogen adsorption-desorption isotherm curves of the bare Ni_3S_2.

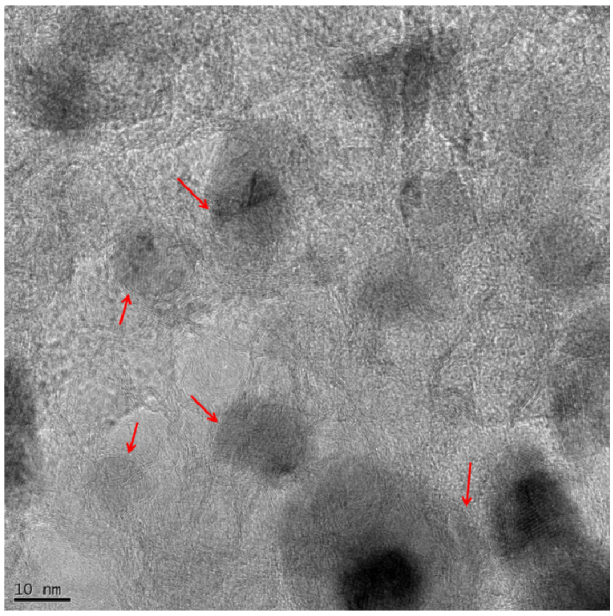


Fig. S2 TEM image of the Ni_3S_2@N-G.

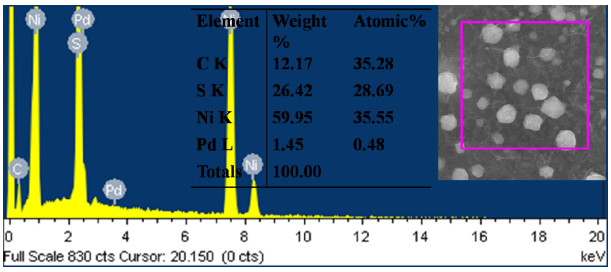


Fig. S3 EDS analysis of the Ni_3S_2@N-G. (The element of Pd comes from preparation process of test).

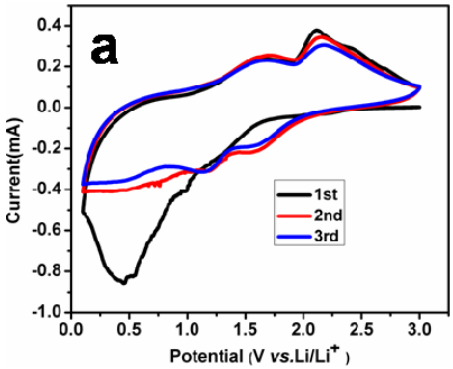


Fig. S4 Cyclic voltammograms of the Ni_3S_2@N-G electrode between 0.01 and 3 V at a scan rate of 0.2 mV/s in the 1st, 2nd and 3rd cycles.