Supporting Information

Sodium-ion storage properties of nickel sulfide hollow nanospheres/reduced graphene oxide composite powders prepared by spray drying process and nanoscale Kirkendall effect

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Figure S1. Formation mechanism of the nickel sulfide hollow nanospheres-rGO composite powder by nanoscale Kirkendall diffusion.

Nanoscale Kirkendall Diffusion
Figure S2. Morphologies of the nickel acetate/GO precursor powders prepared directly by spray drying process.
**Figure S3.** XRD patterns of the nickel sulfide hollow and dense nanospheres/rGO composite powders and nickel nanopowders/rGO composite powders.
Figure S4. TG curve of the nickel sulfide hollow nanospheres/rGO composite powders.
Figure S5. N\textsubscript{2} adsorption and desorption isotherms of the nickel sulfide hollow and dense nanospheres/rGO composite powders.