Supplementary Information

Monodisperse cubic pyrite NiS$_2$ dodecahedrons and microspheres synthesized by solvothermal process in a mixed solvent: their thermal stability and magnetic property

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**Fig. S1** XRD pattern of the NiO porous microspheres prepared from the collection of the residue of the decomposition of the NiS$_2$ microspheres under air condition until 1000 °C with a heating rate of 10 °C min$^{-1}$.

**Fig. S2** SEM images of the collected residues of the decomposition of the NiS$_2$ microspheres in air at different temperature: (a) 450 °C, (b) 570 °C, (c) 670 °C, and (d) 800 °C.