

Supporting Information

Conversion of Chicken Feather Waste to N-doped Carbon Nanotubes for the Catalytic Reduction of 4-Nitrophenol

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1. FESEM images of the production of different batch of chicken feathers

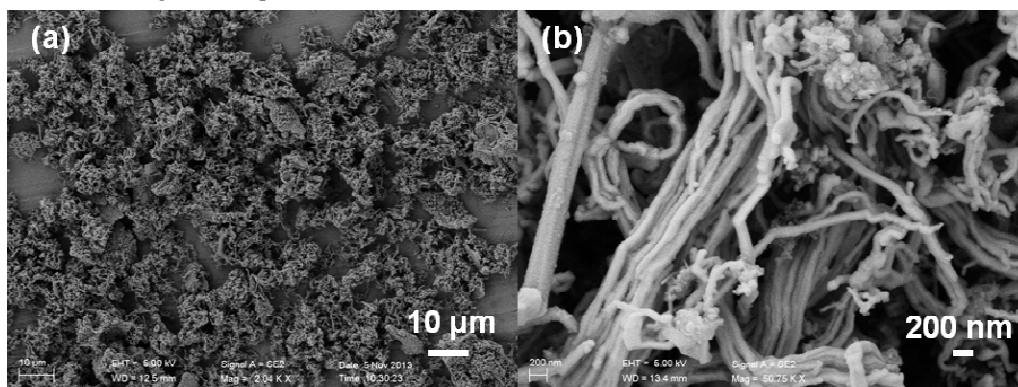


Figure S1. (a, b) FESEM images of the Ni₃S₂@C sample of different batch of chicken feathers, at 650 °C for 3 h.

2. TEM images of the production of different batch of chicken feathers

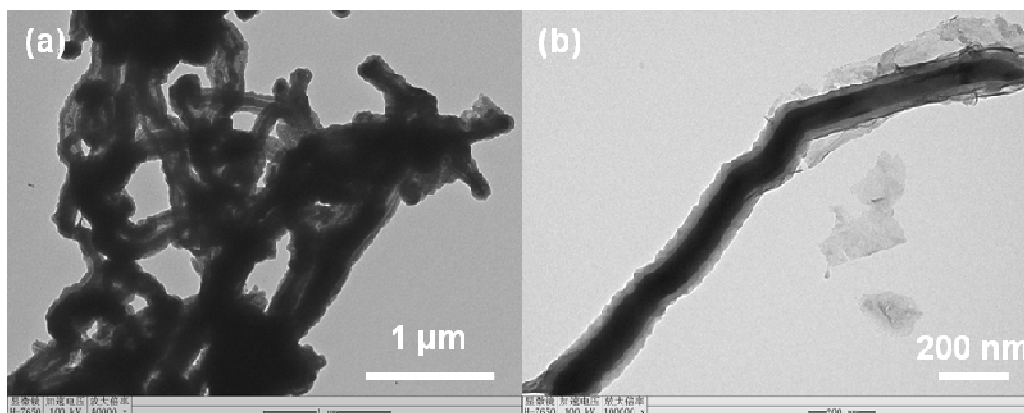


Figure S2. (a, b) TEM images of the $\text{Ni}_3\text{S}_2@\text{C}$ sample of different batch of chicken feathers, at 650 °C for 3 h.

3. The catalytic activities of the N-CNTs and $\text{Ni}_3\text{S}_2@\text{C}$ of different batch of chicken feathers

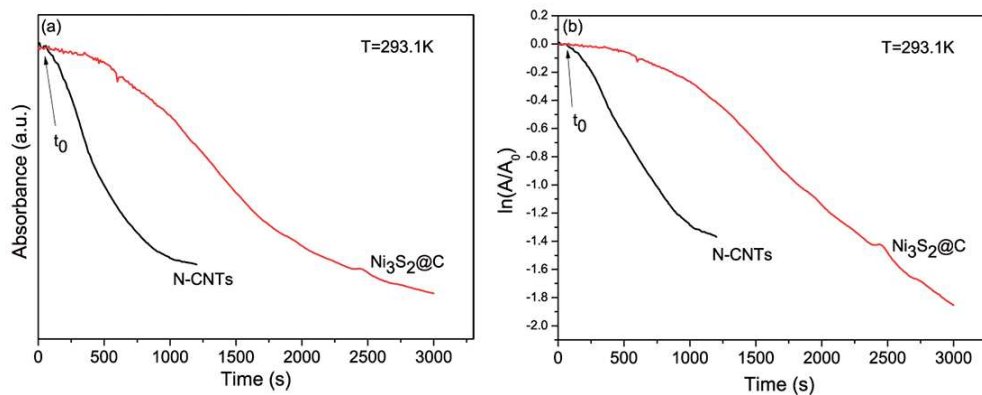


Figure S3. (a, b) time curves of the absorbance at 400 nm measured for sample $\text{Ni}_3\text{S}_2@\text{C}$ and N-CNTs with 4-NP and NaBH_4 ratio 1: 100 at room temperature, which is the production of different batch of chicken feathers.