

## Supplementary Information

# Microwave-Assisted Gas-Liquid Interfacial Synthesis of Flowerlike NiO Hollow Nanosphere Precursors and Their Application as Supercapacitor Electrodes

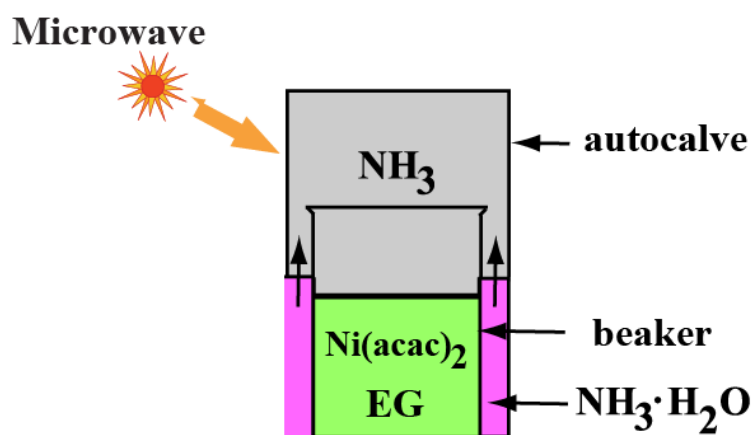
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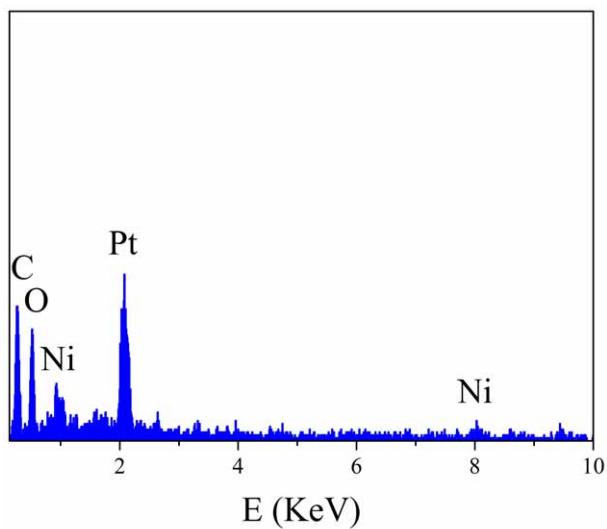
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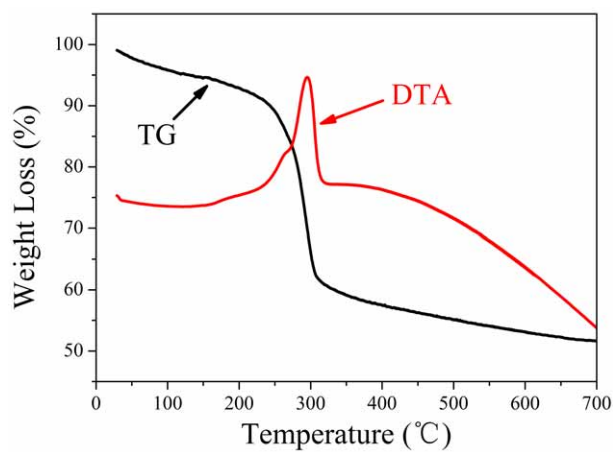
E-mail: wsong@iccas.ac.cn, weicai@hit.edu.cn



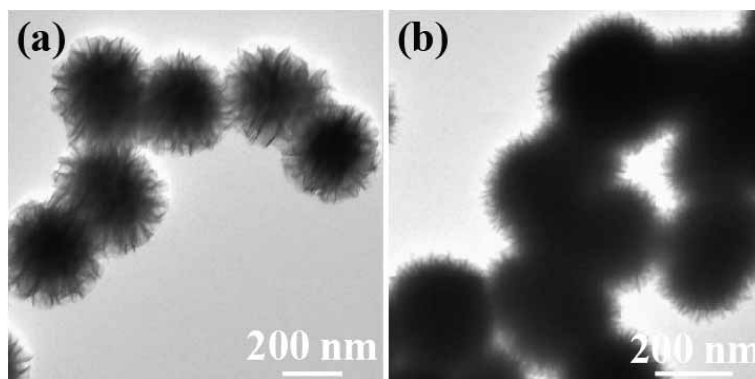
**Fig. S1** Schematic illustration of the microwave-assisted gas-liquid interfacial setup for the preparation of the flowerlike NiO hollow nanospheres.



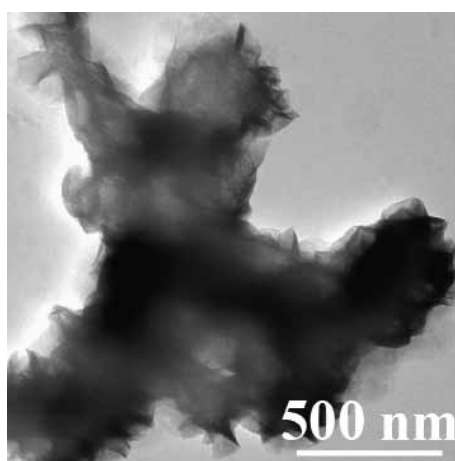
**Fig. S2** EDX spectrum of flowerlike NiO hollow nanosphere precursors (Pt comes from the sputtering in order to enhancing the conductivity).



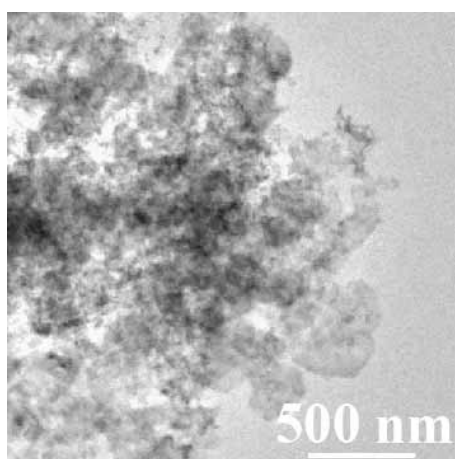
**Fig. S3** TG and DTA curves of flowerlike NiO hollow nanosphere precursors under air atmosphere.



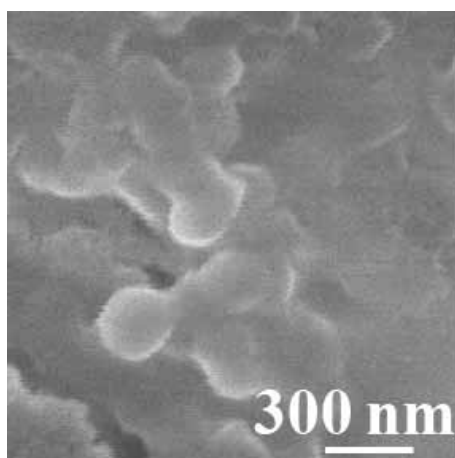
**Fig. S4** TEM images of NiO precursors obtained at different reaction temperature (a) 120 °C, and (b) 150 °C.



**Fig. S5** TEM image of NiO precursor obtained using water instead of ammonia.



**Fig. S6** TEM image of NiO precursor obtained under using water as the solvent.



**Fig. S7** SEM image of flowerlike NiO hollow nanospheres after charge-discharge cycles.