Supplementary Information for

NiO hierarchical structure: template-engaged synthesis and adsorption property

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CAPTIONS:

Fig. S1 EDX pattern of the NiO product.
Fig. S2 TEM images of the porous hierarchical NiO.
Fig. S3 XRD patterns of samples obtained under time-dependent experiments
Fig. S4 FE-SEM images of porous hierarchical NiO and the twice-born sample.
Fig. S5 UV-vis spectra of acid fuchsine solution in the present of NiO sample and the twice-born sample
**Fig. S1** EDX pattern of the NiO product.
**Fig. S2** TEM images of the porous hierarchical NiO.
Fig. S3 XRD patterns of samples obtained under time-dependent experiments
**Fig. S4** Overview FE-SEM images of porous hierarchical NiO (a) and the twice-born one(c); Magnified FE-SEM images of porous hierarchical NiO (b) and the twice-born sample(d).
**Fig. S5** UV-vis spectra of acid fuchsine solution in the present of NiO sample and the twice-born sample after 30 min at the initial acid fuchsine concentrations of 20 and 40 mg/L, respectively.