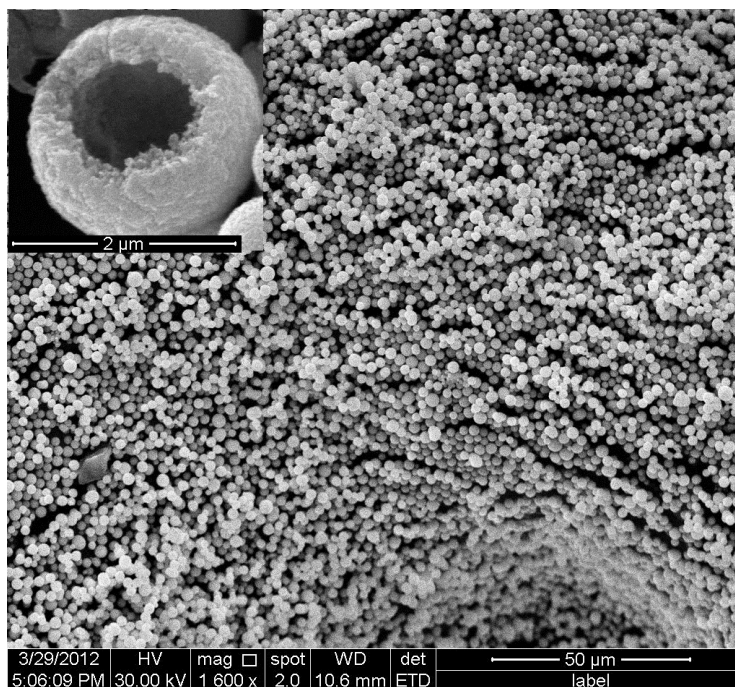
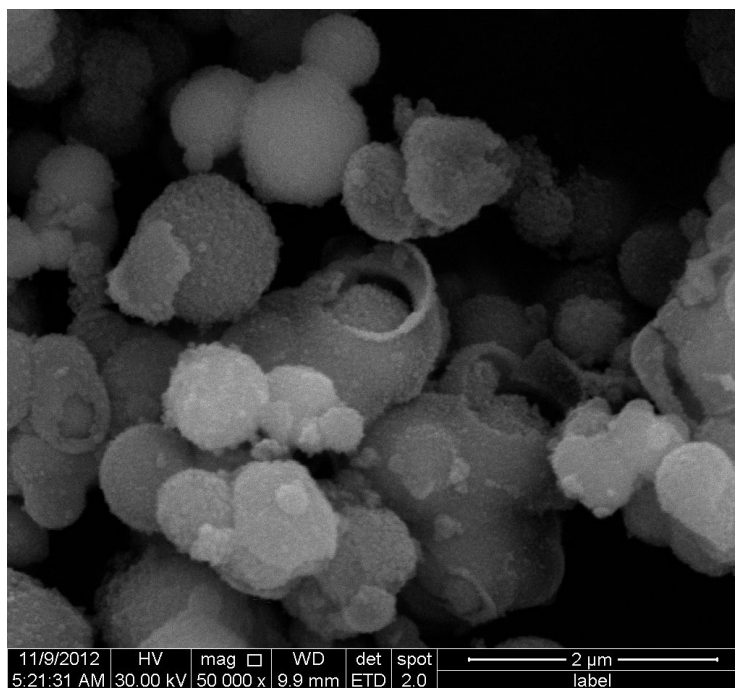


## Electronic Supplementary Information

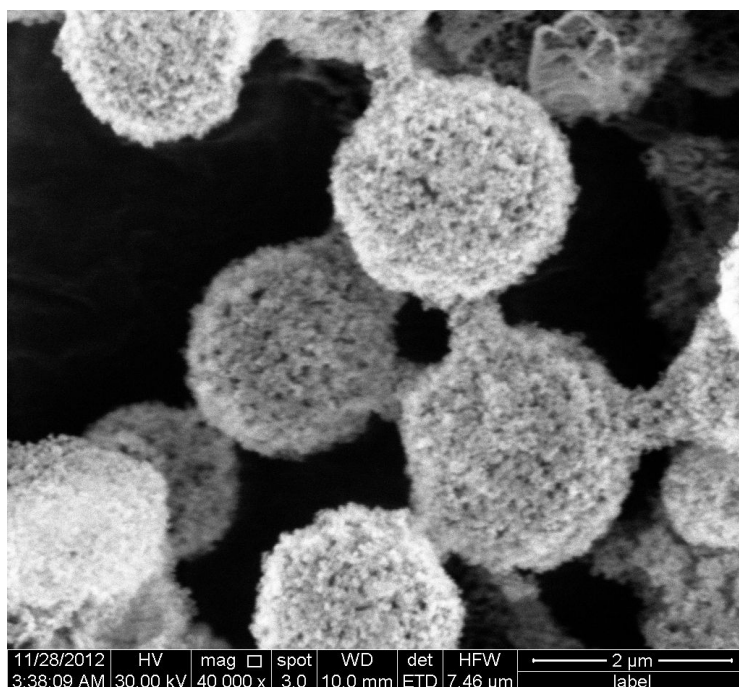


**Fig. S1** SEM image of the obtained hollow  $\text{SnO}_2$  microsphere.



**Fig. S2** SEM image of the obtained hollow  $\text{CeO}_2$  microsphere.

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**Fig. S3** SEM image of the obtained hollow NiO microsphere.