

## Electronic Supplementary Information (ESI)

### Monodisperse TiO<sub>2</sub> Hierarchical Hollow Spheres Assembled from Nanospindles for Dye-sensitized Solar Cells

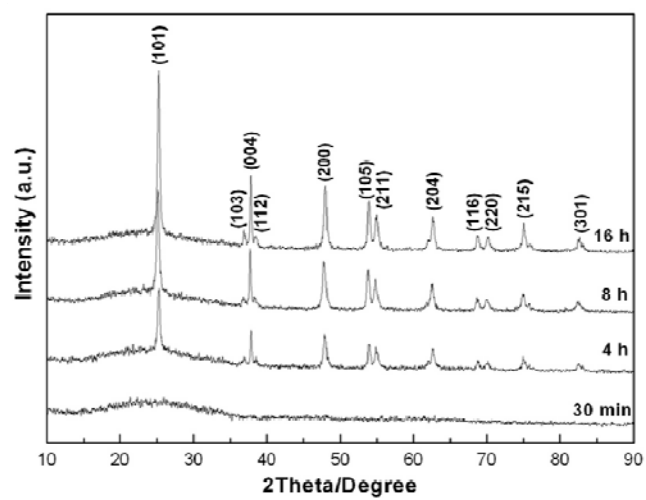
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Xu<sup>a\*</sup>

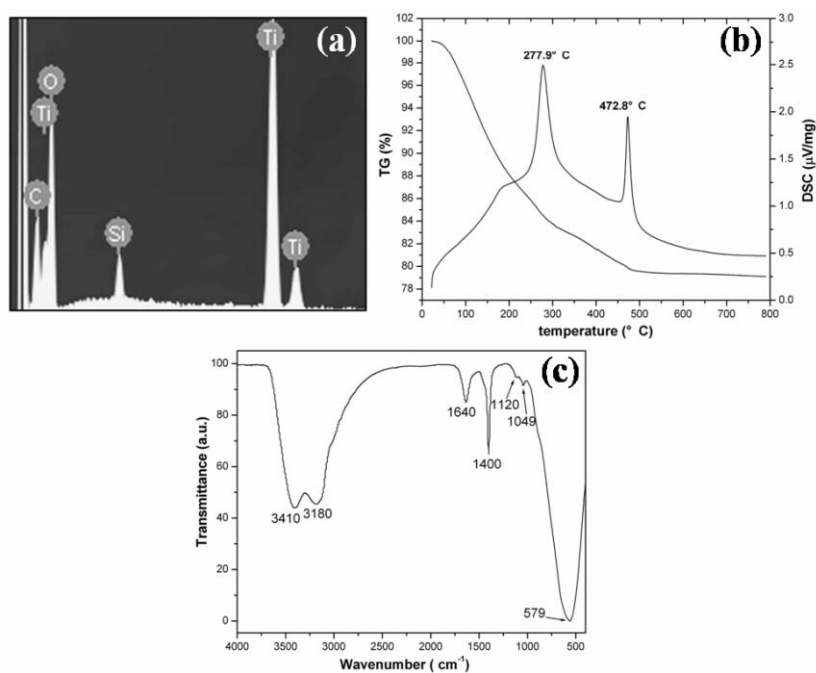
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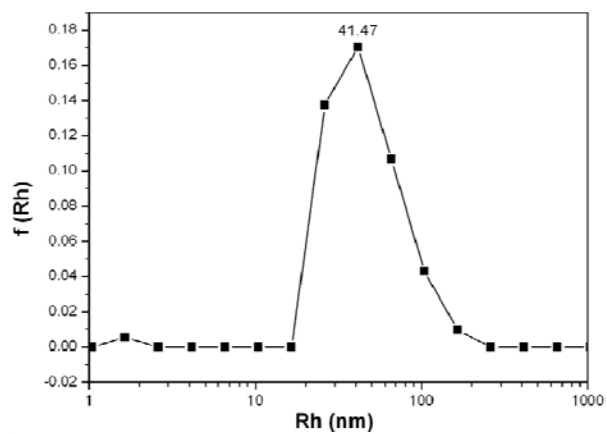
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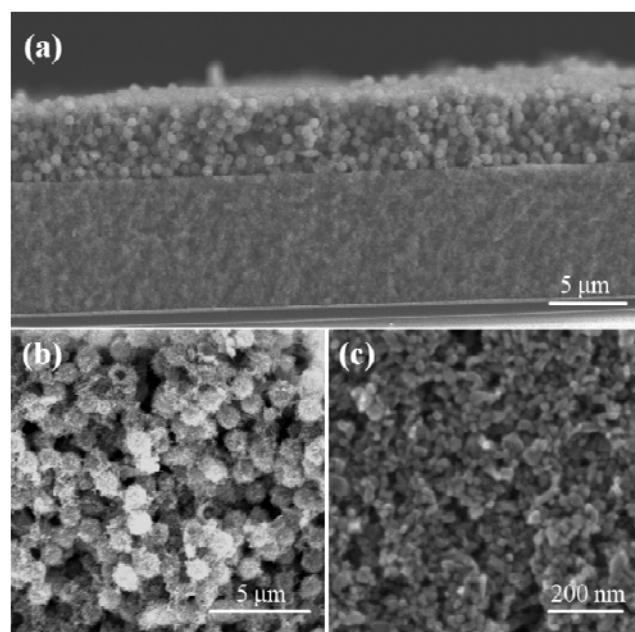
**Fig. S1.** XRD curves of the intermediate samples collected at different time intervals.



**Fig. S2.** (a) EDS, (b) TG-DSC and (c) FTIR analysis of the sample collected at  
30 min.



**Fig. S3** The dynamic laser scattering (DLS) plot of the precursor solution before hydrothermal reaction



**Fig. S4.** SEM images of the as-prepared Film-4: (a) cross-section view, (b) surface of the scattering layer and (c) the absorption layer consisted of nano-sized particles.