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$CaWO_4$ Hierarchical Nanostructures: Hydrothermal Synthesis, Growth Mechanism, and Photoluminescence Properties

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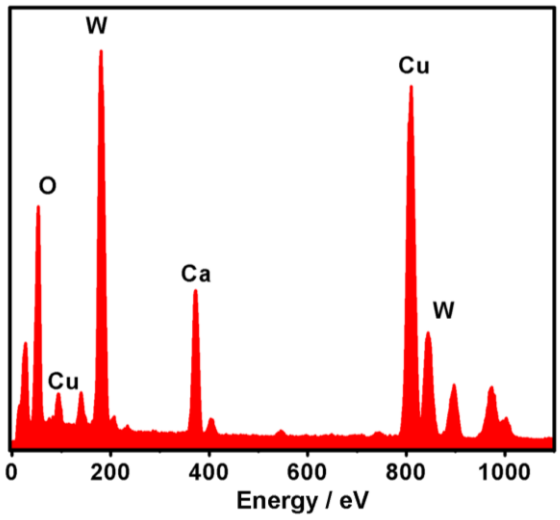

Figure S1. EDX spectra of the $CaWO_4$ hierarchical nanostructures.

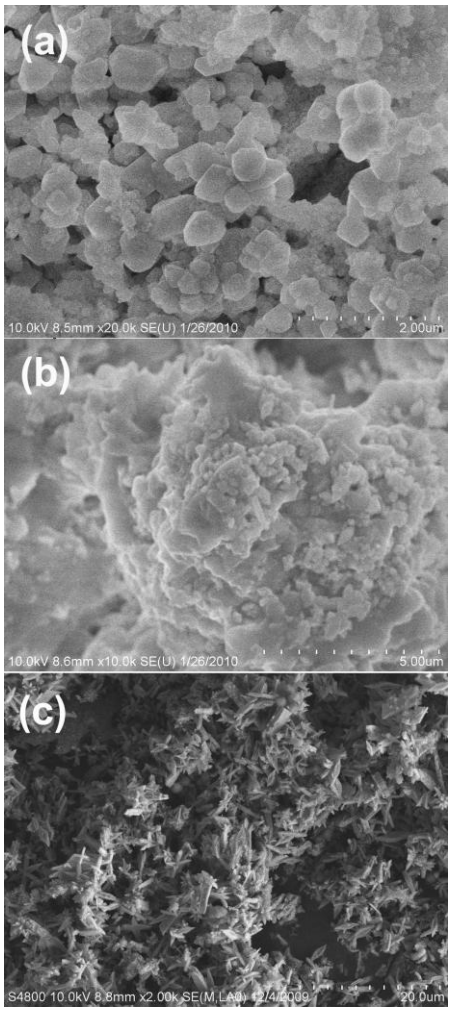

Figure S2. SEM images of the $CaWO_4$ nanostructures obtained in the presence of other reagents: 2 g PVP (a), 2 g CTAB (b), and 0.04 ml PMA (c).

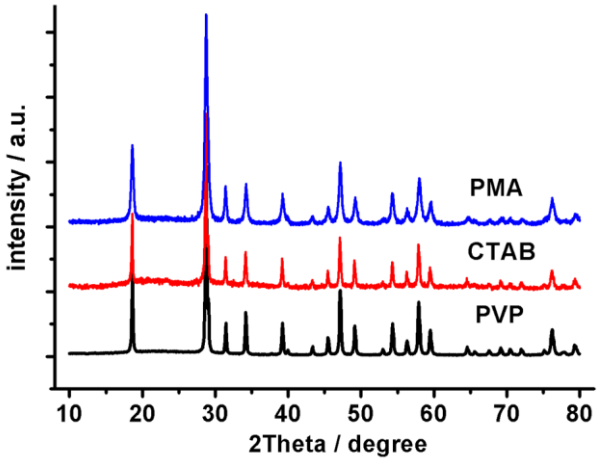

Figure S3. XRD patterns of the $CaWO_4$ nanostructures obtained in the presence of other reagents: 2 g PVP (a), 2 g CTAB (b), and 0.04 ml PMA (c).

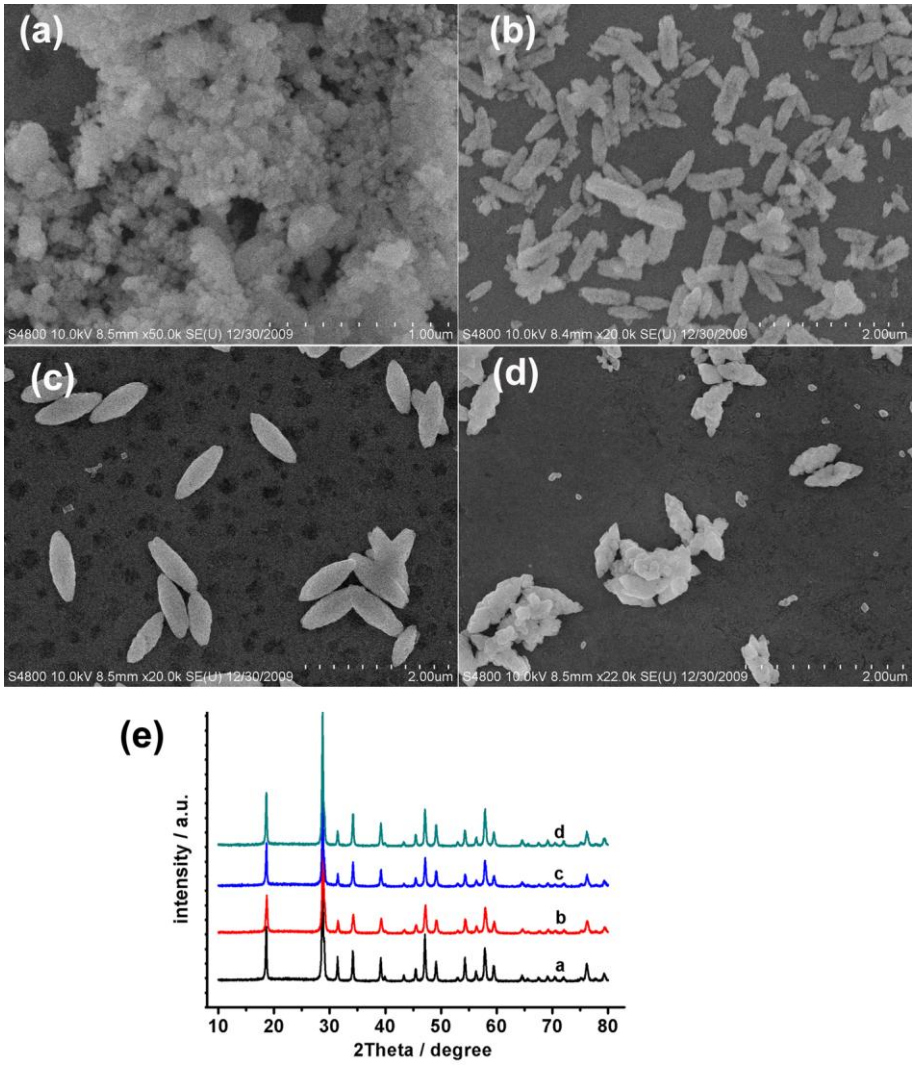

Figure S4**.** SEM images of the $CaWO_4$ nanostructures prepared with the varied initial amounts of PDDA: 0 ml (a), 0.1 ml (b), 1 ml (c), 8 ml (d), and XRD patterns of above products(e).

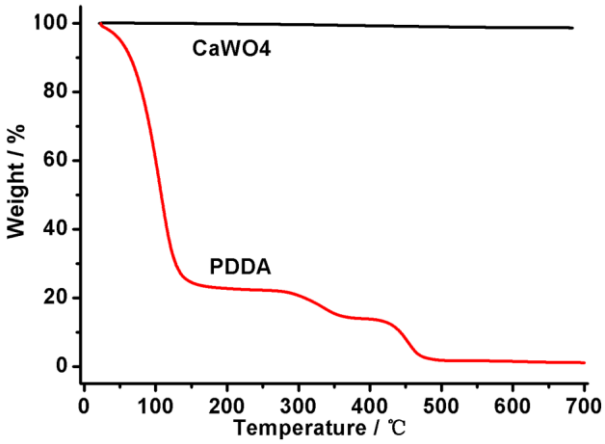

Figure S5**.** TG analysis of $CaWO_4$ hierarchical nanostructures and PDDA.

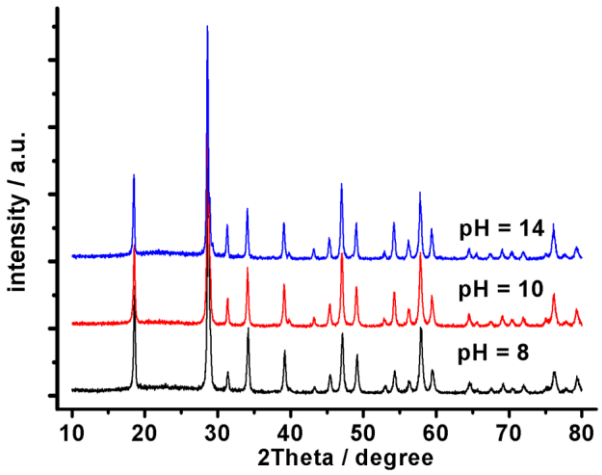

Figure S6**.** XRD patterns of the as-synthesized $CaWO_4$ products with different pH values.