

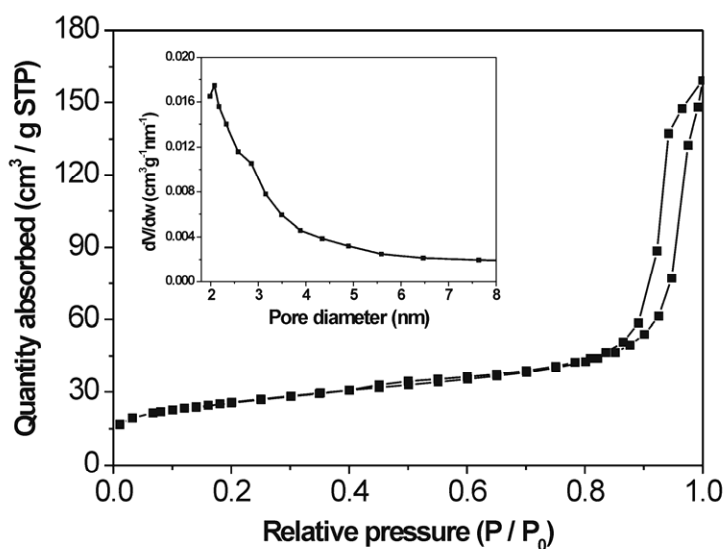
## Electronic Supplementary Information

### Intense and Wavelength-Tunable Photoluminescence from Surface Functionalized MgO Nanocrystal Clusters

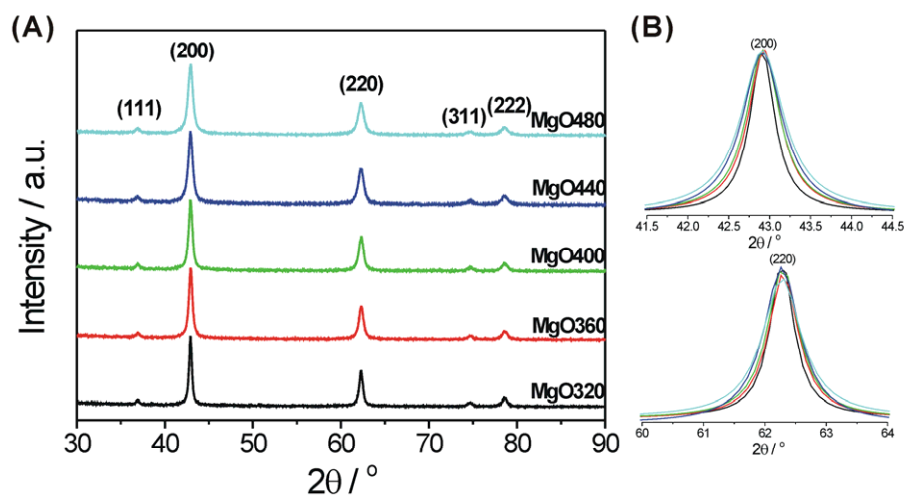
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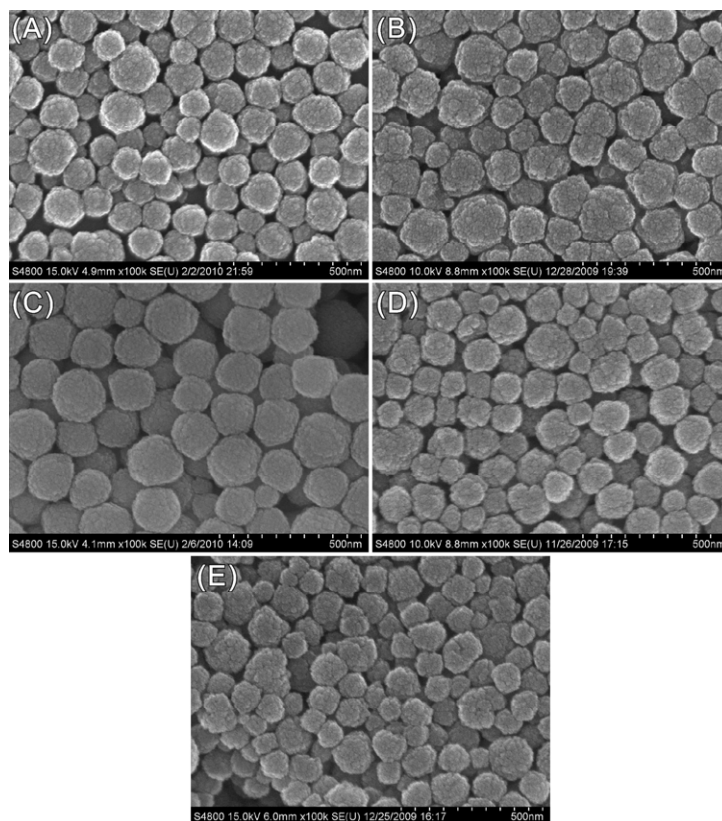
E-mail: zxxie@xmu.edu.cn, qkuang@xmu.edu.cn



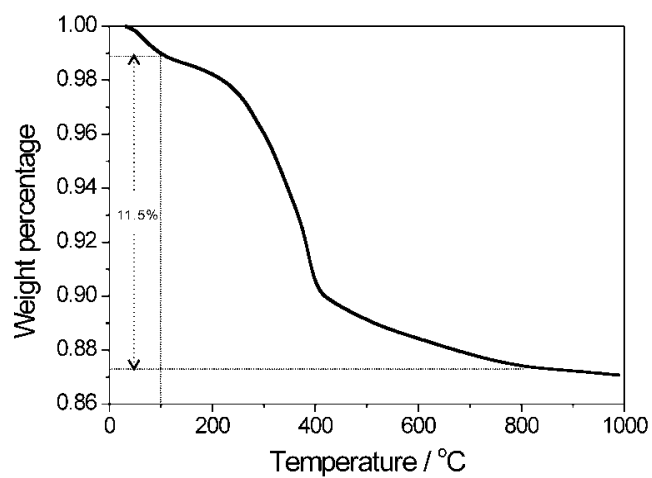
**Figure S1.** N<sub>2</sub> adsorption–desorption isotherms and the pore-size distribution curve (inset) of MgO400.



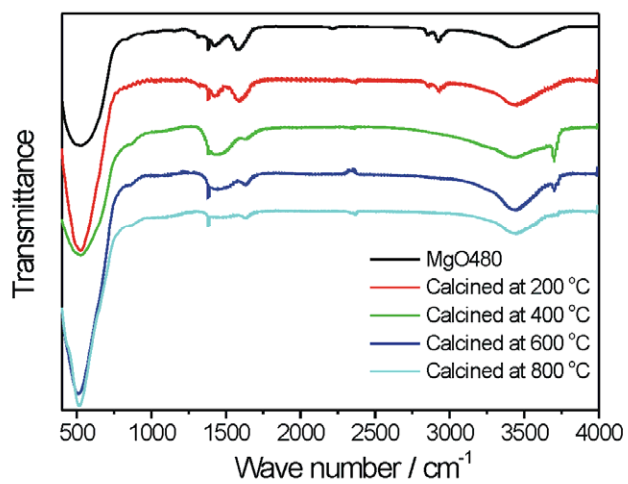
**Figure S2.** (A) The XRD patterns of the as-prepared MgO samples at different reacting temperatures. (B) The broaden phenomena at the (200) and (220) XRD peaks of as-prepared MgO CNC samples with the increase of reaction temperature.



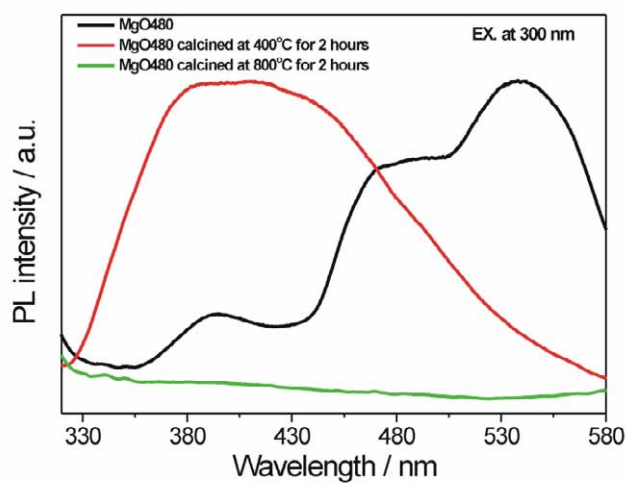
**Figure S3.** The SEM images of the as-prepared MgO samples at different reacting temperatures: (A) MgO320, (B) MgO360, (C) MgO400, (D) MgO440, (E) MgO480.



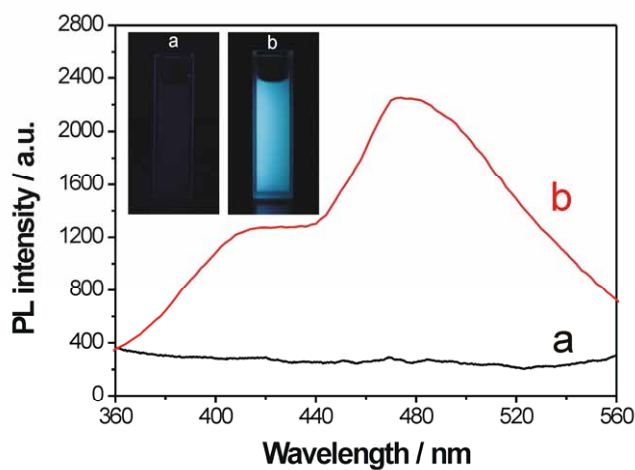
**Figure S4.** The thermogravimetric analysis of MgO480.



**Figure S5.** FTIR spectra of MgO480 samples calcined at different temperatures.



**Figure S6.** The PL spectra of MgO480 before and after calcination.



**Figure S7.** The PL spectra of commercial MgO powder before (a) and after (b) refluxing at 400 °C under 325 nm (insert: the corresponding optical picture of the samples in ethanol under 365 nm).