# Supporting Information

**Figure S1.** Photographs of wet-gels before (a) and after solvothermal treatments at 120 °C (b), 140 °C (c) and 160 °C (d).

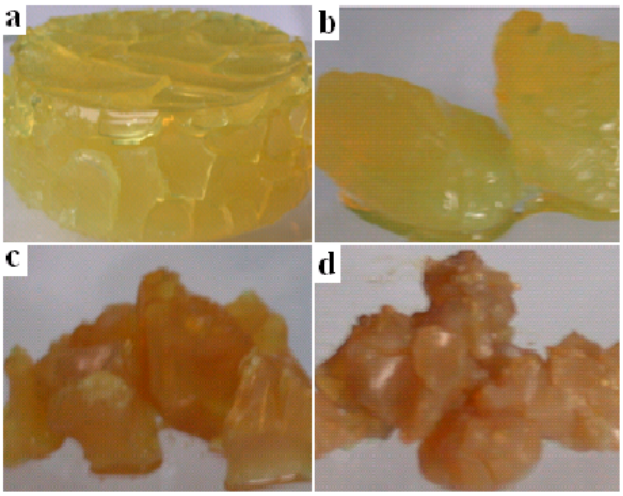


**Figure S2.** HR-TEM images of the samples after solvothermal treating at 120 °C (a), 140 °C (b), and 160 °C (c).

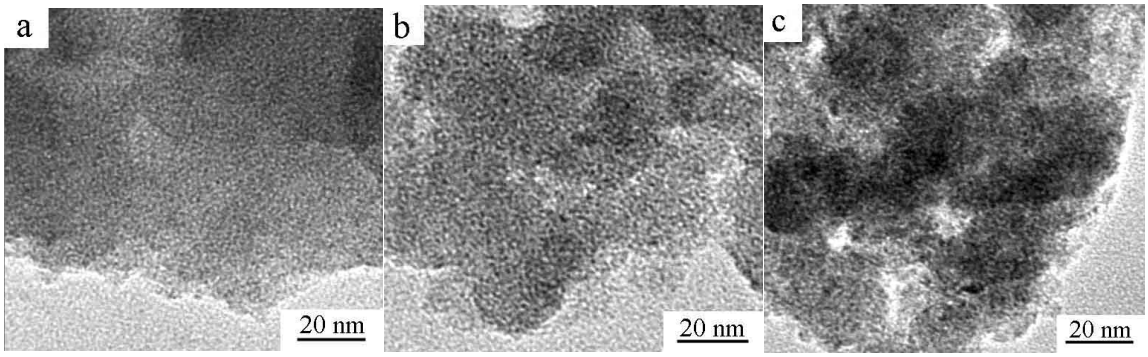

**Figure S3.** HR-TEM images of the aerogel obtained from the gel without solvothermal treatment. Nanopores can be seen clearly from the images, but no lattice fringes of the crystalline $TiO_2$ can be examined, indicating the amorphous nature of the aerogel.

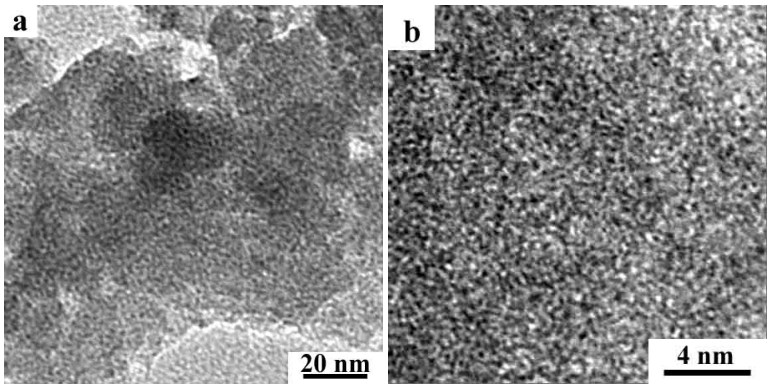


**Figure S4.** HR-TEM images of calcined aerogel-120 (a)/-140 (b)/-160 (c).

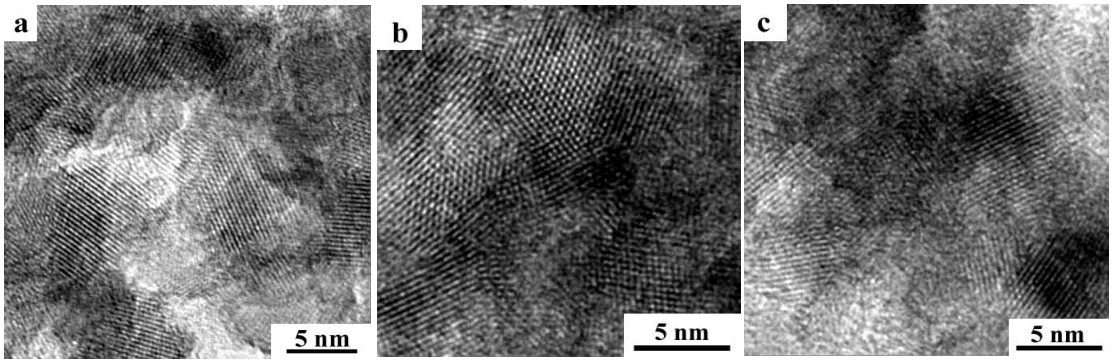

**Figure S5.** IR spectra of calcined aerogels from the wet-gels solvothermally treated at 120 °C (a), 140 °C (b) and 160 °C (c).

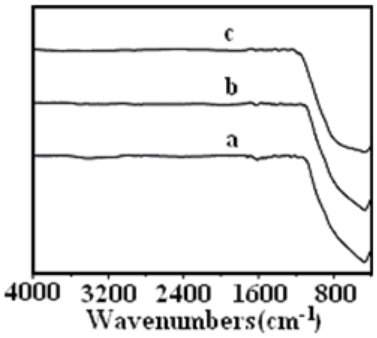


**Figure S6.** XRD patterns of the as-obtained (A) and calcined (B) aerogels. (a) aerogel-120, (b) aerogel-140, (c) aerogel-160.