Supporting Information

Formation of the modified ultrafine anatase TiO$_2$ nanoparticles using the nanofiber as a microsized reactor

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Fig. S1 Optical photo of the as-electrospun TiO$_2$/PVP nanofibers similar with the one in the absence of TiO$_2$.

Fig. S2 Particle size distribution via dynamic light scattering (DLS) of TiO$_2$-OFG dispersed in water.
Fig. S3 HR-TEM image of the amorphous TiO$_2$ nanoparticles after dissolving PVP from the as-electrospun TiO$_2$/PVP nanofibers.

Fig. S4 Appearance of TiO$_2$-OFG dispersed in water: (a) as-prepared and (b) one week later.