

Electronic Supplementary Information

**Synthesis of Hierarchically Meso-Macroporous TiO₂ Film Based on
UV Light-induced In Situ Polymerization: Application to
Dye-sensitized Solar Cells**

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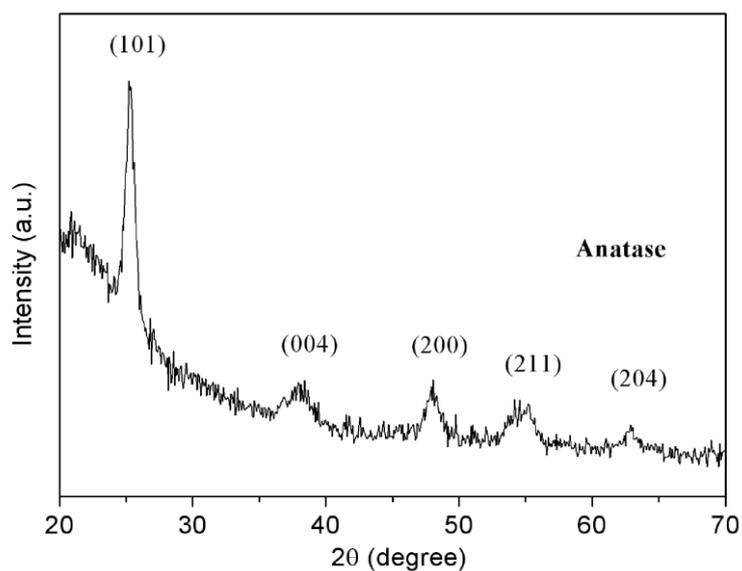


Figure S1. X-ray diffraction patterns of the TiO_2 film. The diffraction peaks correspond to the anatase phase of TiO_2 (JCPDS no. 21-1272).

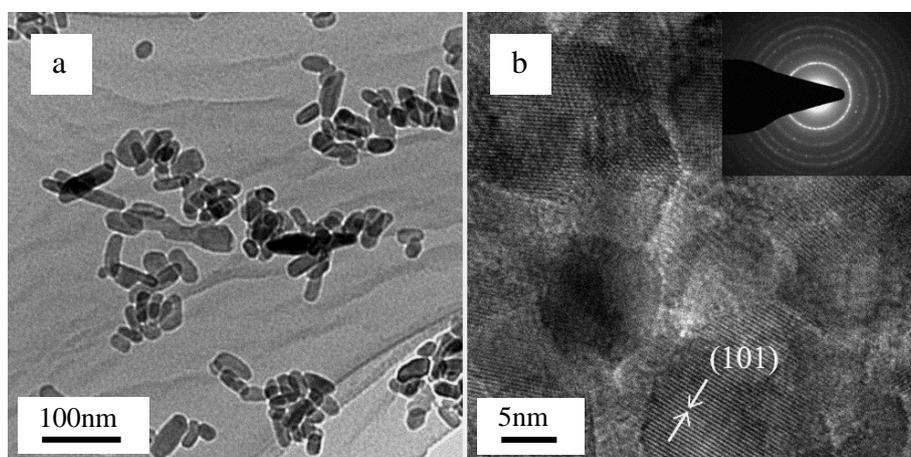


Figure S2. TEM image (a) and HRTEM image (b) of the samples scratched off from the TiO_2 film. The inset in b shows Debye-Scherrer rings in the electron diffraction pattern.

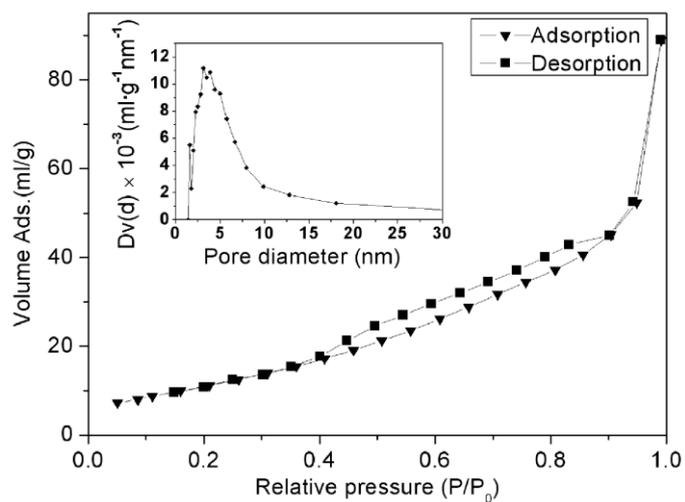


Figure S3. BET Nitrogen adsorption-desorption isotherm and pore distribution (inset) of the TiO₂ film with net-like frameworks (TF-0).

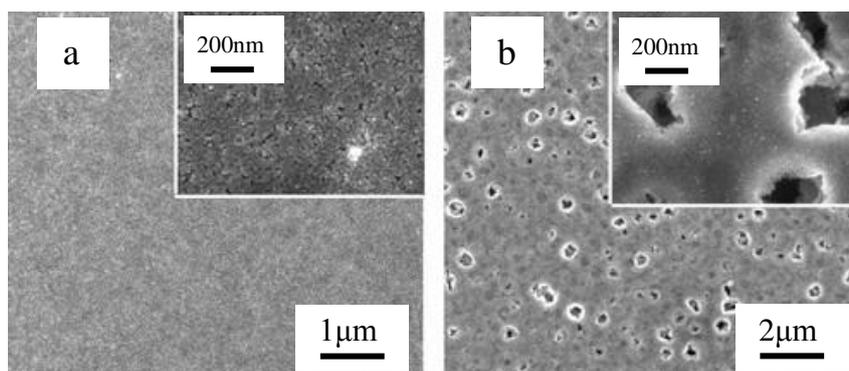


Figure S4. SEM images of the synthesized films with the molar ratio POGTA/TTB = 0 and 0.2, (a) and (b) respectively. Insets show high magnification images of the film morphology.