Electronic Supporting Information:

Enhanced Photocatalytic Activity and Charge Transfer of TiO$_2$/BiVO$_4$ Nanostructured Composite

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**Figure S1.** High resolution XPS spectra of Bi 4f (a), V 2p (b), O 1s (c) and Ti 2p (d) of BVO and TO30/BVO.
Figure S2. Normalize apparent rate constant of BVO and TO30/BVO thin films under common condition and N$_2$-saturated condition.

Figure S3. DMPO spin trapping EPR spectra for DMPO-·OH with BVO and TO30/BVO samples under dark condition (a, c) and after 6min visible light irradiation (b, d).