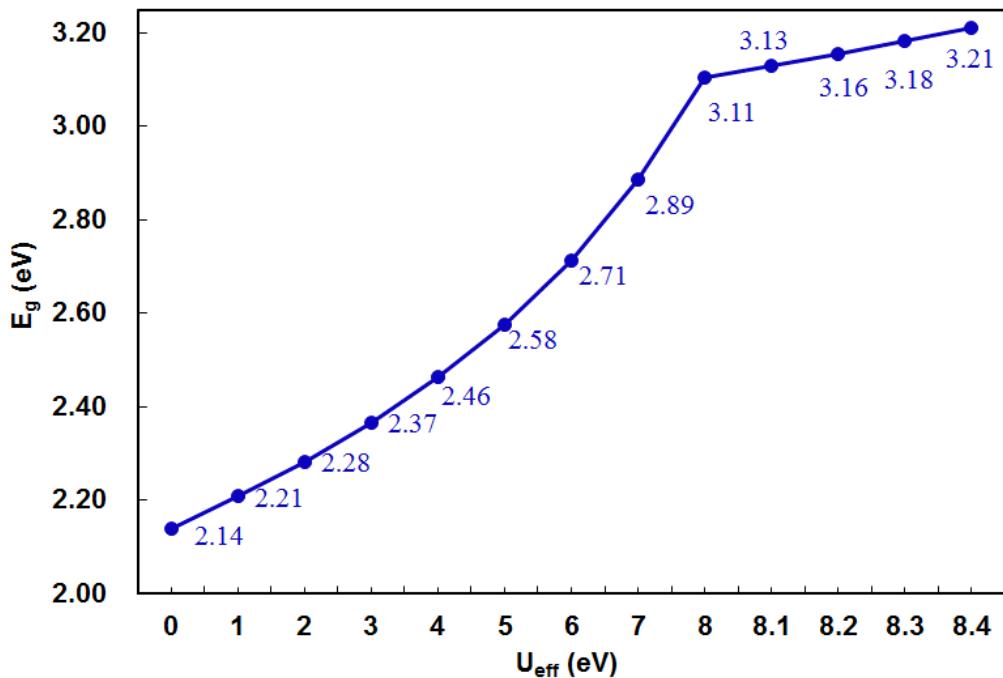


## *Supplementary Information*



**Figure S1:** Relationship between the effective Hubbard parameter ( $U_{\text{eff}}$ ) and the band gap ( $E_g$ ) of anatase  $\text{TiO}_2$ .