Supporting Information.

Sb-doped titanium oxide: a rationale for its photocatalytic activity for environmental remediation

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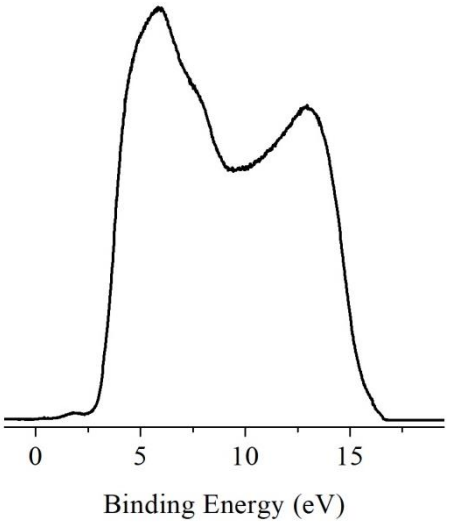

Figure S1. UPS He-I spectrum of 1.5% Sb-TiO_2 after annealing overnight at 1000°C. Structure due to satellite radiation has been subtracted from the spectrum. The position of the Fermi level was established from measurement on a silver foil. The band centred at ~ 5 eV is associated with the O 2p valence electrons. The band at ~ 12.5 eV is due to the secondary electron emission. The valence band edge was found just over 3 eV below the Fermi level thus demonstrating that the Fermi energy is pinned close to the conduction band minimum. The weak peak observed at ~ 1.8 eV is due to the Sb(III) $(5s\text{-}5p)^2$ hybrid surface states.