

Fig. s1 Total density of states (TDOS) and partial density of states (PDOS) of  $\beta$ - $\text{Bi}_2\text{O}_3$  (a) and In-doped  $\beta$ - $\text{Bi}_2\text{O}_3$  (b).

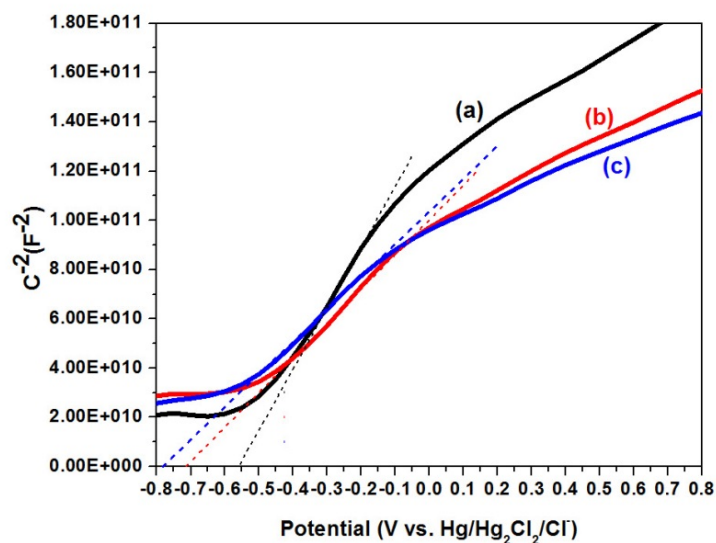


Fig. s2 Mott -Schottky plots for  $\beta$ - $\text{Bi}_2\text{O}_3$  (a) and 1.0 at% In-doped  $\beta$ - $\text{Bi}_2\text{O}_3$  electrodes in the dark (b) and 1.0 at% In-doped  $\beta$ - $\text{Bi}_2\text{O}_3$  electrode under light irradiation(c).

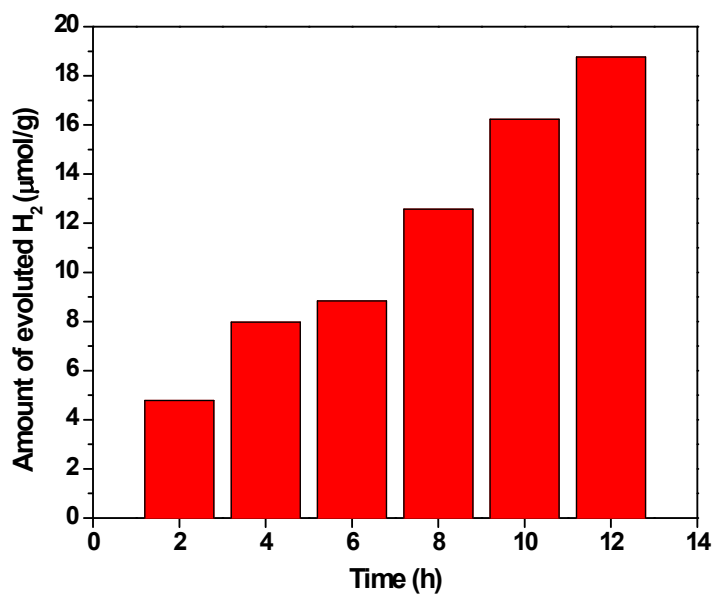


Fig. s3 Photocatalytic hydrogen release by 1.0 at% In-doped  $\beta$ - $\text{Bi}_2\text{O}_3$  with increasing the irradiation time. The distance between the sample and lamp is shortened in comparison with that in Fig.7