

Supporting Information

Numerical modeling investigations of the impact of a thin p-type cocatalyst modifier on an n-type photon absorber for unbiased overall solar water splitting

HanHsuan Huang,^a Kesiuke Obata,^a Fuminao Kishimoto,^a and Kazuhiro Takanabe*^a

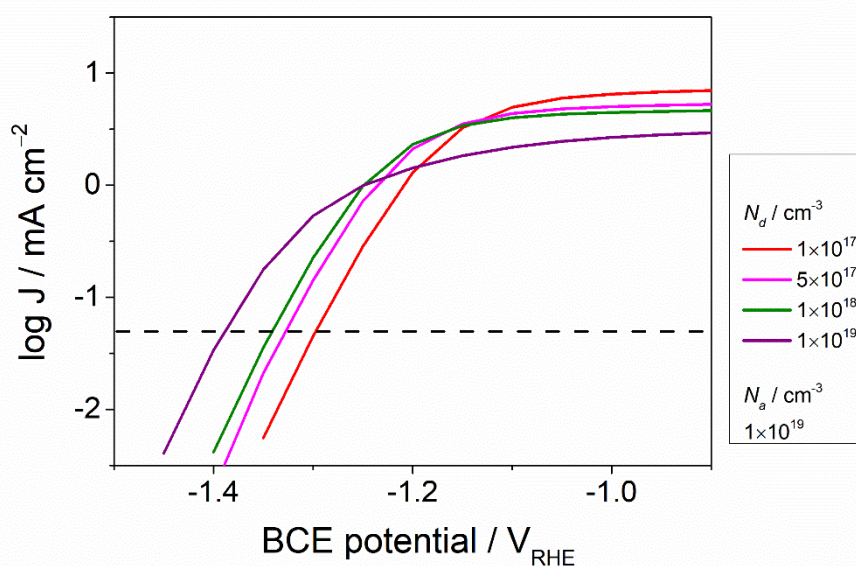


Fig. S1 Semi-log current-potential of p-n junction photoanode, which is replotted from Fig. 5a in the main text, with varied donor density in the n-type photoanode (N_d) from $1 \times 10^{17} \text{ cm}^{-3}$ to $1 \times 10^{19} \text{ cm}^{-3}$, $N_a = 1 \times 10^{19} \text{ cm}^{-3}$. The dashed line shows 0.05 mA cm^{-2} where the onset potential is defined.