Synthesis and photocatalytic activity of $\text{K}_2\text{CaNaNb}_3\text{O}_{10}$, a new Ruddlesden–Popper phase layered perovskite

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**Fig. S1.** TG-DTA curves for K$_2$CaNaNb$_3$O$_{10}$ measured under nitrogen flow.

**Fig. S2.** N$_2$ and H$_2$O adsorption isotherms for K$_2$CaNaNb$_3$O$_{10}$. 
Fig. S3. N$_2$ and H$_2$O adsorption isotherms for KCa$_2$Nb$_3$O$_{10}$.

Fig. S4. N$_2$ and H$_2$O adsorption isotherms for H$_2$CaNaNb$_3$O$_{10}$. 
**Electronic Supplementary Information (ESI)**

Fig. S5. N$_2$ and H$_2$O adsorption isotherms for HCa$_2$Nb$_3$O$_{10}$.

Fig. S6. XRD patterns of H$_2$CaNaNb$_{3-x}$Ta$_x$O$_{10}$. 