Supporting Information for:

Controllable Doping of Nitrogen and Tetravalent Niobium Affords Yellow and Black Calcium Niobate Nanosheets for Enhanced Photocatalytic Hydrogen Evolution

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Supporting Figures

**Fig.S1** Rietveld refinement plots of the powder X-ray diffraction data of Yellow-KCa$_2$Nb$_3$O$_{10}$, Black-KCa$_2$Nb$_3$O$_{10}$ and KCa$_2$Nb$_3$O$_{10}$ in space group $P2_1/m$. Observed data: blue circle; Calculated intensities: red line; Difference: gray lines and Allowed Bragg reflections: bottom ticks.

**Fig.S2** XRD patterns of KCa$_2$Nb$_3$O$_{10}$ annealed at different temperatures for 8 h.

**Fig.S3** XRD patterns of KCa$_2$Nb$_3$O$_{10}$ with $x$% K$_2$CO$_3$ annealed at 800 °C for 1 h.

**Fig.S4** SEM images of the restacked flocculates B-KCNO before (a) and after (b) photo reaction. Scale bar: 5µm.
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