Supporting information to

Fabrication of TiO$_2$ on Porous g-C$_3$N$_4$ by ALD for Improved Solar-driven Hydrogen Evolution

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![FTIR spectra](image)

Fig. S1 FTIR spectra of P-g-C$_3$N$_4$, TiO$_2$, and TiO$_2$@P-g-C$_3$N$_4$ composites.
Fig. S2 HRTEM images and SAED patterns for (a) $P$-g-$C_3N_4$ and (b) Ti180-CN. The inset in (b) shows the lattice image of $TiO_2$ (101).

Fig. S3 TGA curves of the samples.
Fig. S4 UV-vis diffuse reflectance spectra of the samples. The inset shows the magnified absorption edges.

Fig. S5 Photocurrent density curves for P-g-C$_3$N$_4$, TiO$_2$, and Ti180-CN in a 0.5 M Na$_2$SO$_4$ aqueous solution under 150 W Xe lamp illumination with a solar filter.