The Three-Dimensional Flower-Like Phosphorus-Doped g-C₃N₄ with High Surface Area for Visible-Light Photocatalytic Hydrogen Evolution

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Fig. S1. SEM images of (a) CM0, (b) CM0.5, (c) CM1.0, (d) CM2.0, (e) PCN0, (f) PCN0.5, (g) PCN1.0, (h) PCN2.0.

Fig. S2. The corresponding elemental mapping images of CM1.5 in SEM.
Fig. S3. Nitrogen adsorption-desorption isotherms and the corresponding pore size distribution of carbon nitride samples.

Fig. S4. A possible existing form of phosphorus atoms in the structure of g-C$_3$N$_4$. 
Fig. S5. Photocatalytic hydrogen evolution with the use of the PCN1.5 sample in absence of Pt co-catalyst under visible light irradiation.