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Synthesis of Porous Graphitic Carbon Nitride with N_{3C} Nitrogen Vacancy by CaCO₃ Template for Improved Photocatalytic H₂ Evolution

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Table S1. Surface areas and pore volumes of bulk CN and N-CN photocatalysts.

| Photocatalys | BET surface area (m ² /g) | pore volume (cm ³ ·g ⁻¹) |
|--------------|--------------------------------------|---|
| t | | |
| CN | 6.69 | 0.09 |
| N-CN | 33.33 | 0.12 |

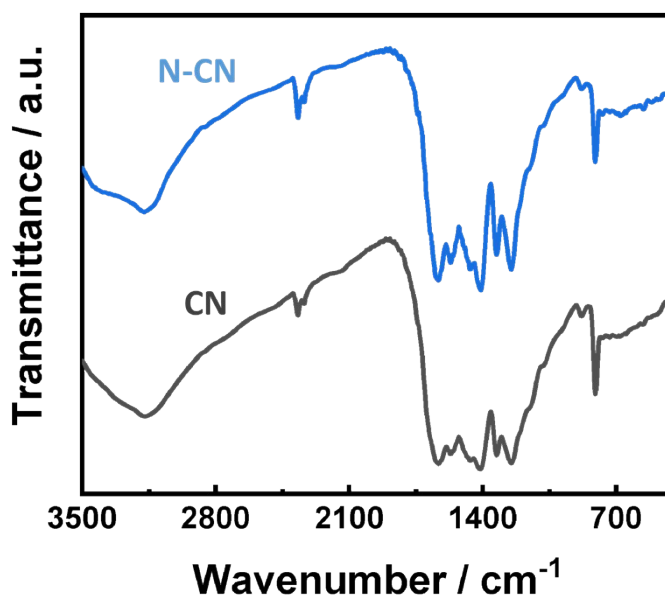


Fig S1. FTIR spectra of bulk CN and N-CN photocatalysts.

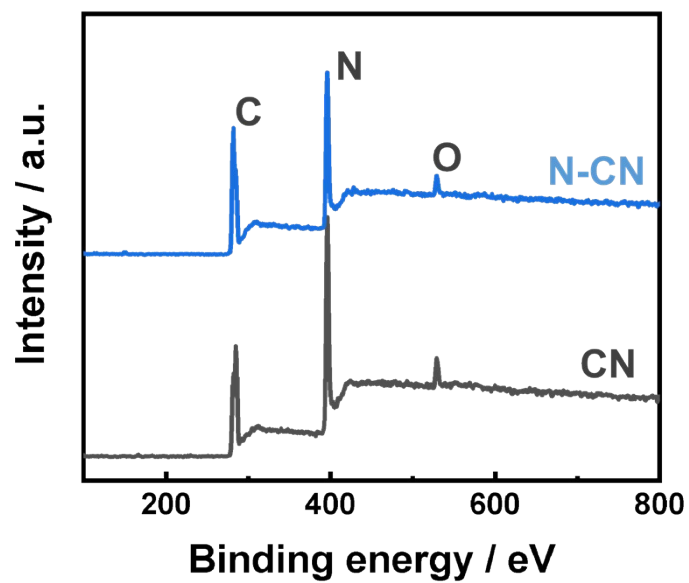


Fig S2. Survey XPS spectra of bulk CN and N-CN photocatalysts.

Table S2. Room temperature transient fluorescence decay of bulk CN and N-CN photocatalysts.

| Photocatalyst | Lifetime (ns) | | | Intensity (%) | | | A τ (ns) |
|---------------|---------------|----------|----------|---------------|-------|-------|---------------|
| | τ_1 | τ_2 | τ_3 | I_1 | I_2 | I_3 | |
| CN | 10.87 | 88.96 | 2.65 | 46.03 | 10.77 | 43.20 | 4.8434 |
| N-CN | 2.63 | 11.53 | 85.87 | 45.77 | 39.91 | 14.32 | 4.7649 |