

## Supporting Information

### **The improvement of photocatalytic performance for hydrogen evolution over mesoporous g-C<sub>3</sub>N<sub>4</sub> with nitrogen defects**

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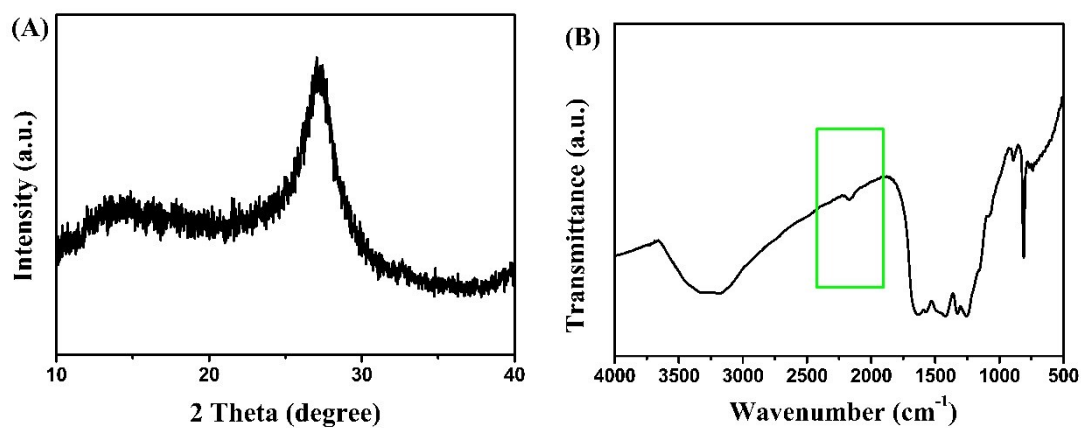
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**Table S1** Comparison of photocatalytic performance of recent reports and this work.

Samples	Light source	Co-catalyst mass (wt%)	HER	References
Nitrogen vacancy modified g-C <sub>3</sub> N <sub>4</sub>	Visible light	Pt 3wt%	3147 $\mu\text{mol g}^{-1} \text{h}^{-1}$	[1]
Crystalline g-C <sub>3</sub> N <sub>4</sub>	Visible light	Pt 3wt%	660 $\mu\text{mol g}^{-1} \text{h}^{-1}$	[2]
K-doped g-C <sub>3</sub> N <sub>4</sub> nanosheets	Visible light	Pt 3wt%	1337.2 $\mu\text{mol g}^{-1} \text{h}^{-1}$	[3]
Na and cyano-group co-modified g-C <sub>3</sub> N <sub>4</sub>	Visible light	Pt 3wt%	985 $\mu\text{mol g}^{-1} \text{h}^{-1}$	[4]
Nitrogen vacancy g-C <sub>3</sub> N <sub>4</sub> nanosheets	Visible light	Pt 3wt%	1287 $\mu\text{mol g}^{-1} \text{h}^{-1}$	[5]
CNMCN2	Visible light	Pt 3wt%	4978 $\mu\text{mol g}^{-1} \text{h}^{-1}$	This work



**Fig. S1** (A) XRD patterns and (B) FTIR of CNMCN2 before and after four times cycling.

## Reference

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