

***N,N*-Dimethylformamide Assisted Hydrothermally Introducing MoS₂ on ultrathin g-C₃N₄
layers with Enhanced Visible Light Photocatalytic Hydrogen Evolution Activity**

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Supporting Information

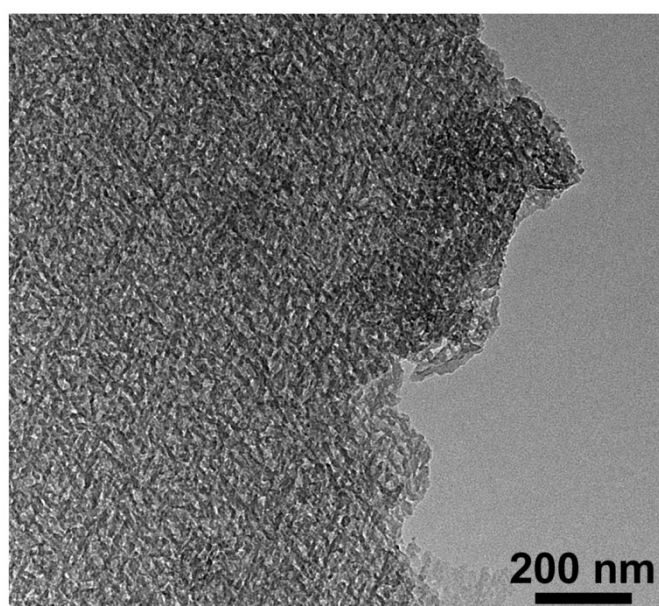


Fig. S1 TEM image of g-C₃N₄.

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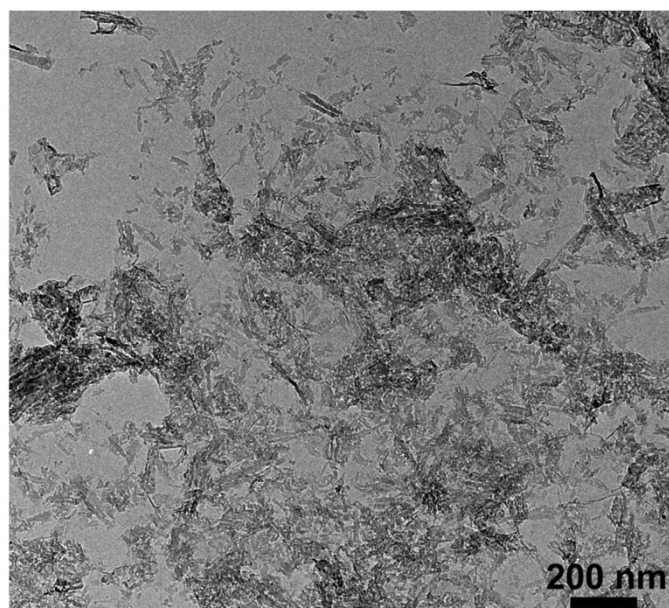


Fig. S2 TEM image of g-C₃N₄ after hydrothermal using water as solvent.

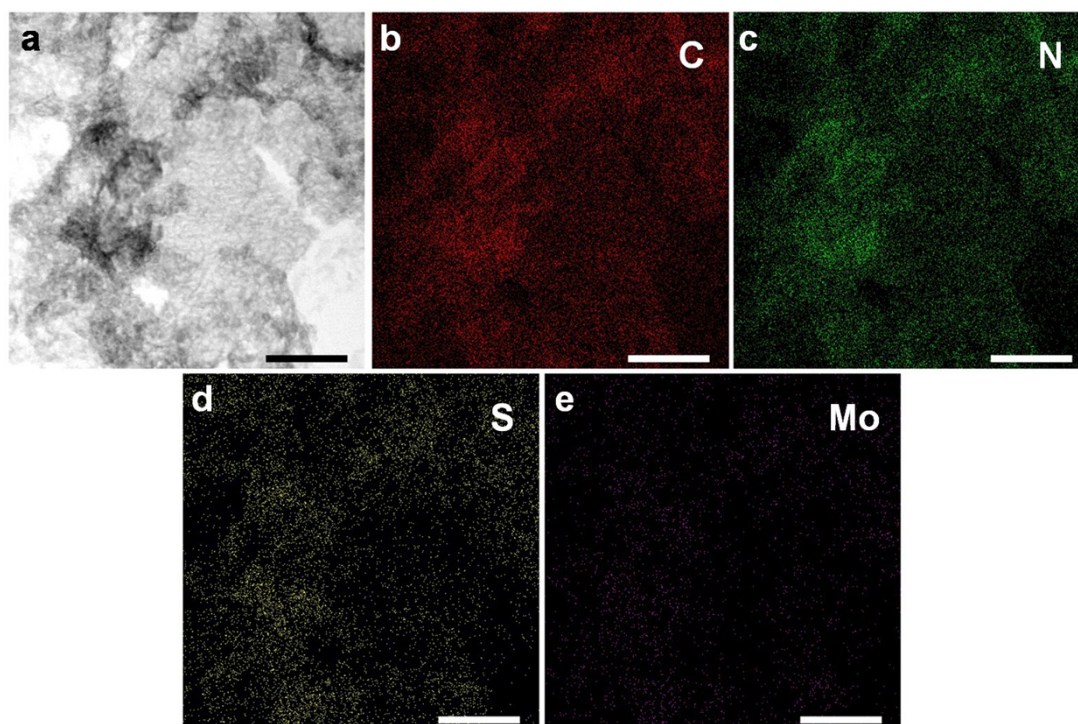


Fig. S3 (a) TEM image and elemental mapping of (b) C, (c) N, (d) S, and (e) Mo of CM-2.5. The scale bar is 300 nm.

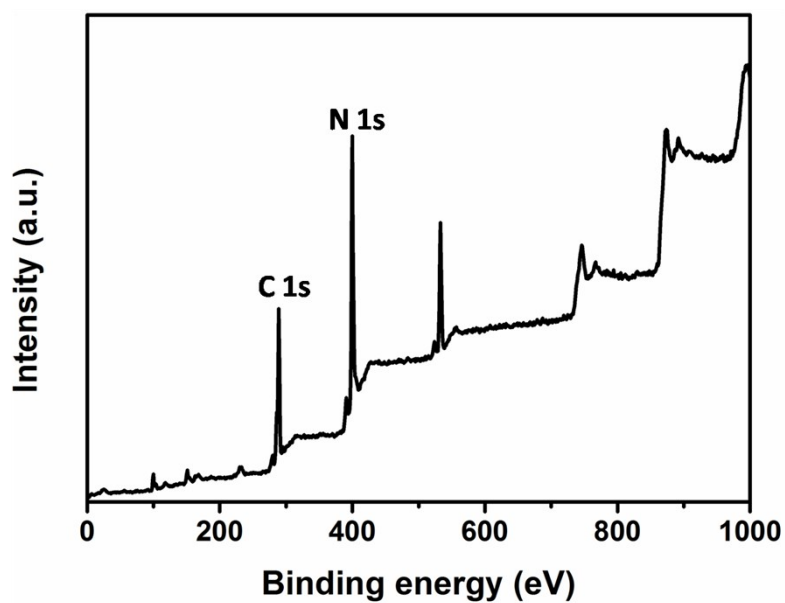


Fig. S4 Wide-scan XPS spectrum of CM-2.5.

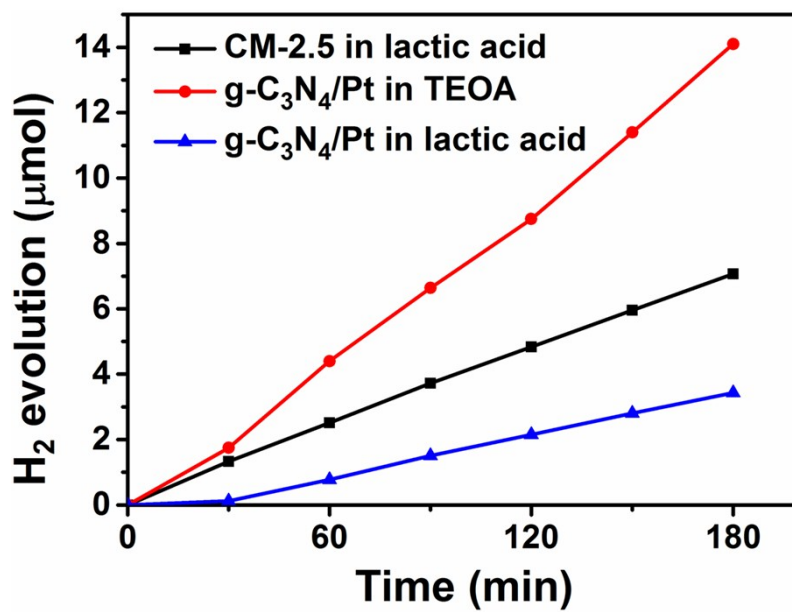


Fig. S5 Comparison of photocatalytic H₂ evolution activities of CM-2.5 and g-C₃N₄/Pt in different sacrificial agents.

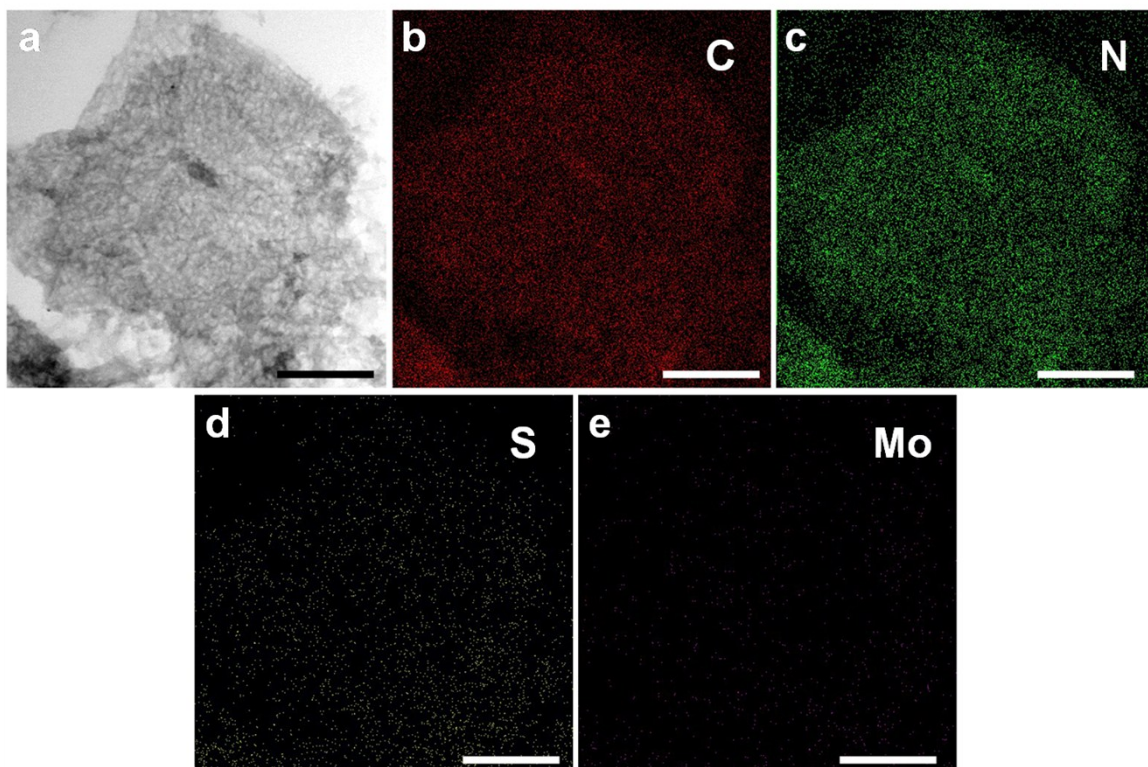


Fig. S6 (a) TEM image and elemental mapping of (b) C, (c) N, (d) S, and (e) Mo of CM-2.5 after stability test. The scale bar is 250 nm.

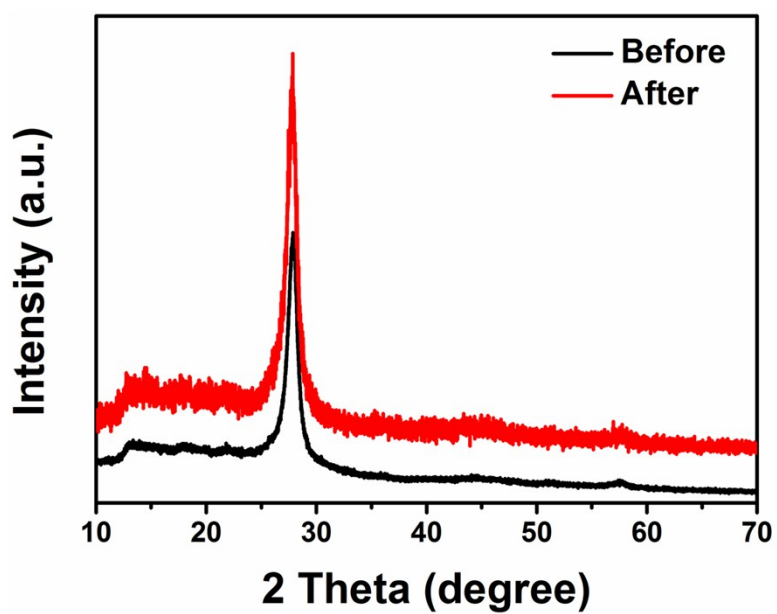


Fig. S7 XRD pattern of CM-2.5 before and after stability test.

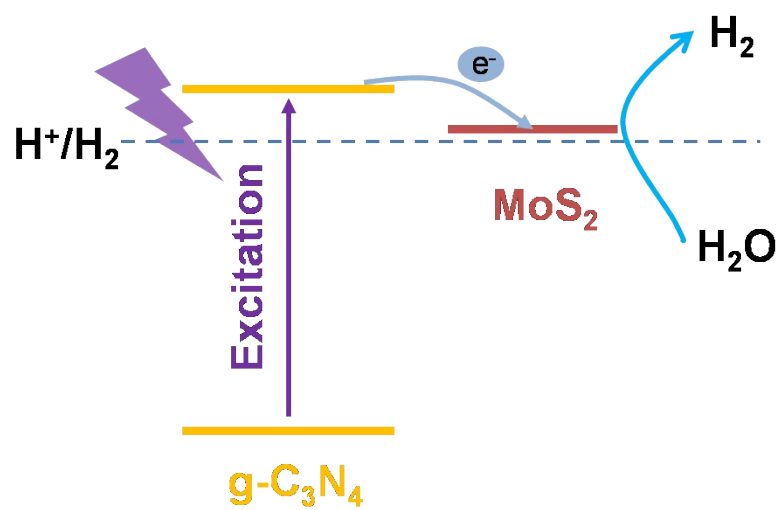


Fig. S8 Photocatalytic H_2 evolution schematic diagram of CM-X.