

MoC@NC as a cocatalyst modified ZnIn₂S₄ with strong 2D/2D hetero-interface interaction for efficient H₂ evolution

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Table S1 The light intensity of the Xenon lamp at different wavelengths.

Wavelength(nm)	420	450	500	550	600
Light intensity(mW·cm ⁻²)	12.3804	12.0411	20.0861	23.6001	21.6074

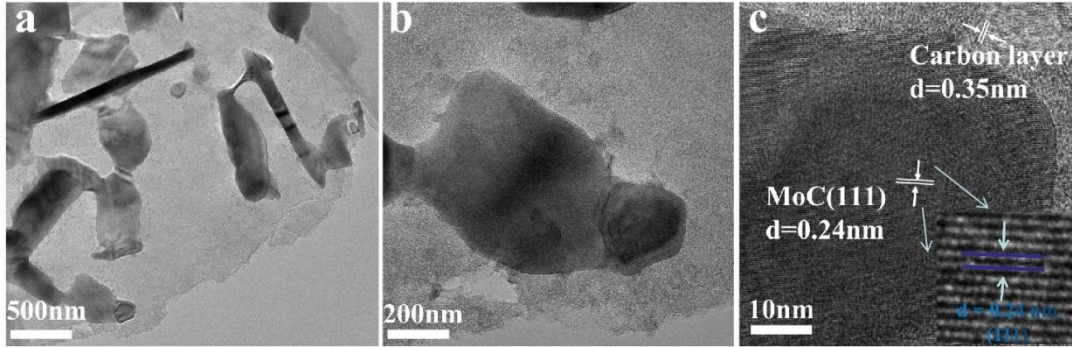


Figure S1 TEM and HRTEM images of MoC@NC.

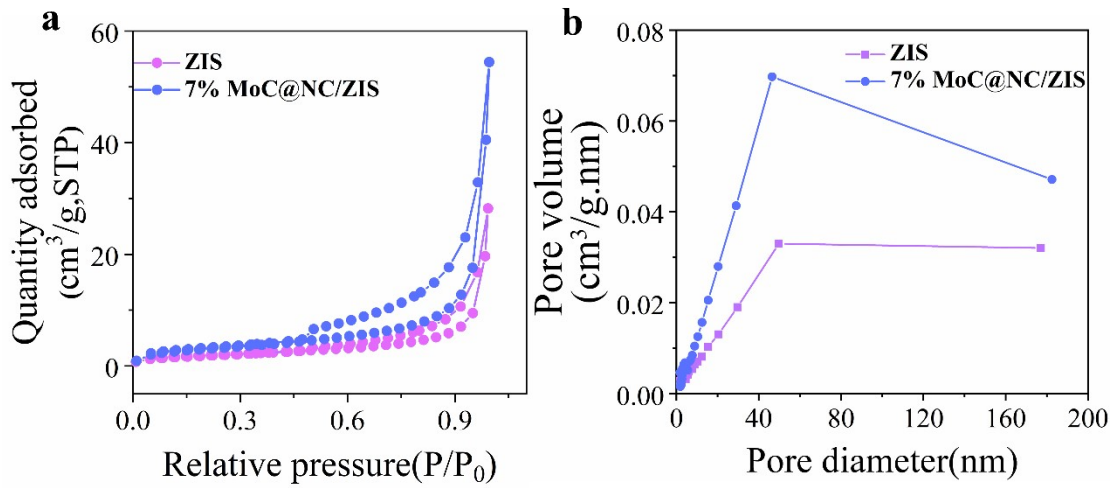


Figure S2 The ZIS and MoC@NC (7 wt %)/ZIS samples: (a) Nitrogen adsorption-desorption isotherms and (b) pore size distribution

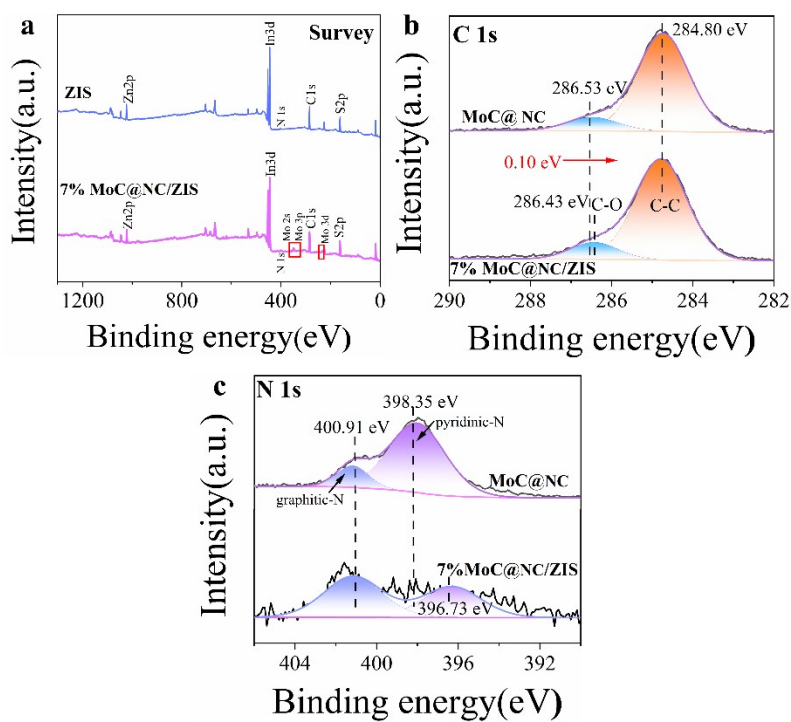


Figure S3 XPS spectra of ZIS, MoC@NC and 7 wt% MoC@NC/ZIS: (a) survey spectra; (b) C 1s; (c) N 1s.

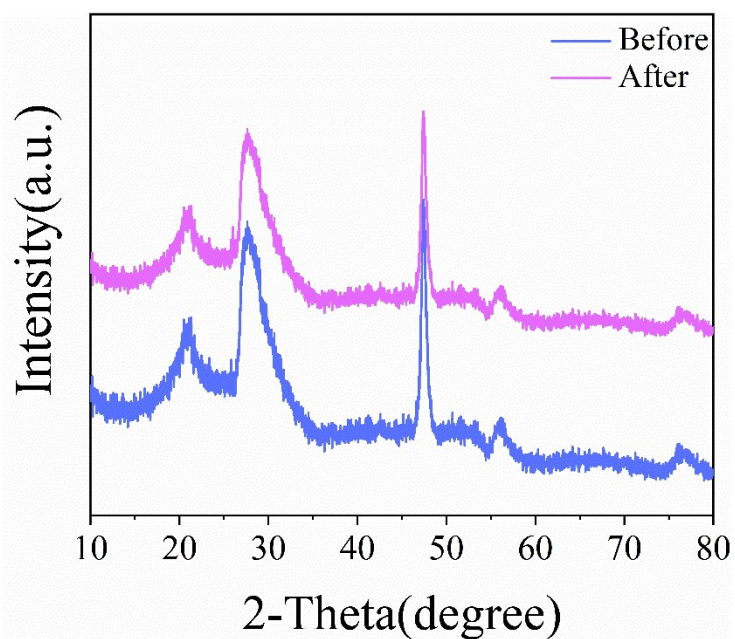


Figure S4 XRD patterns of 7 wt% MoC@NC/ZIS after six cycles of photocatalysis.

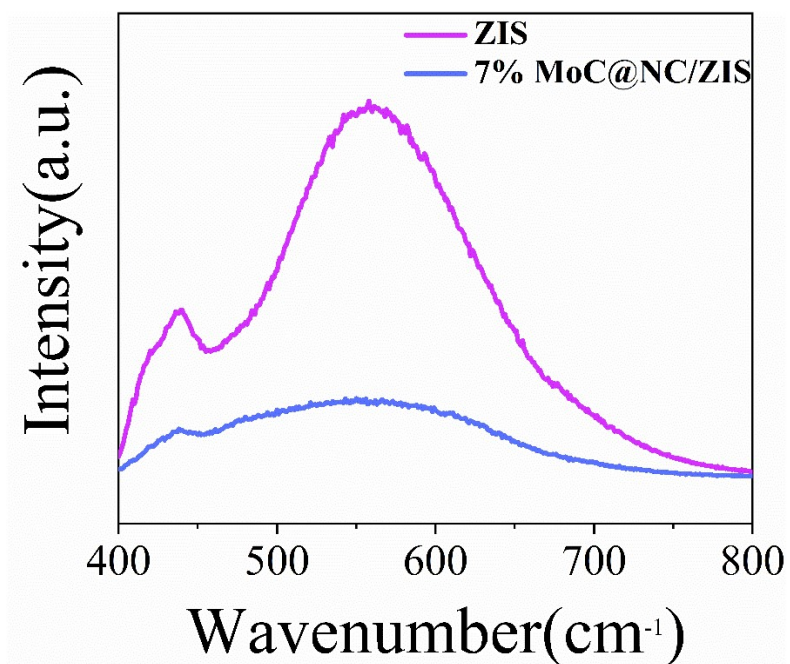


Figure S5 PL spectra of ZIS and 7 wt %MoC@NC/ZIS.

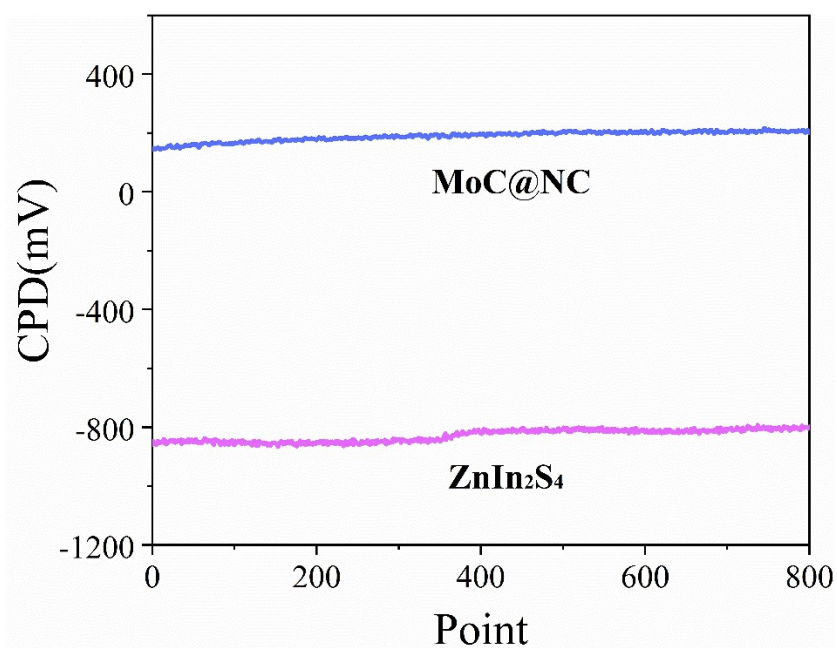


Figure S6 CPDs of ZIS and MoC@NC surface related to Au reference at single-point measurement over 800 points.