

Supplementary Information

Photocatalytic H₂ production under visible-light irradiation based on covalently attachment of manganese phthalocyanine to graphene

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† Electronic supplementary information (ESI) available: XPS spectra of MnPcG, Standard curve of UV-vis absorbance of
MnPcCl and Hydrogen production by MnPcG in the presence or absence of surfactant.

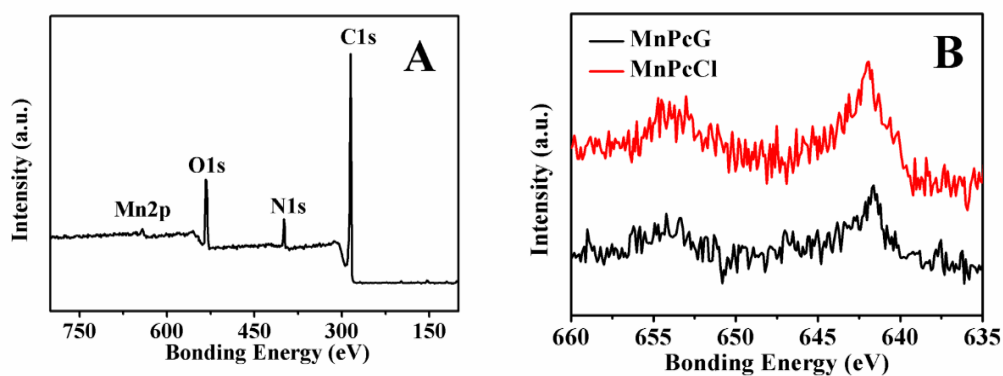


Figure S1: XPS survey spectrum of MnPcG (A) and the Mn 2p region of MnPcCl and MnPcG (B)

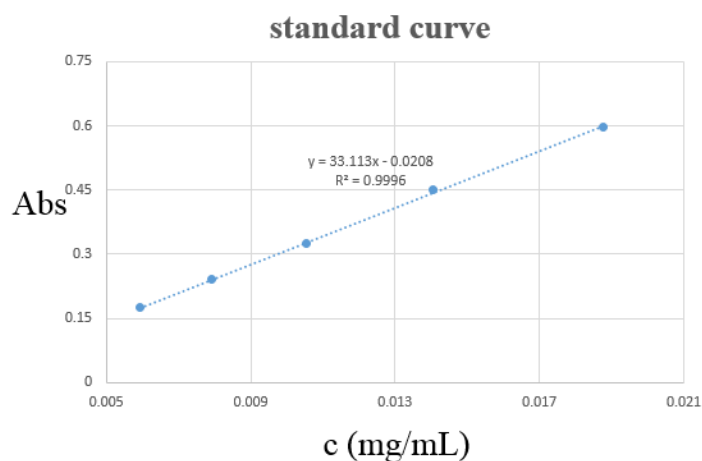


Figure S2: Standard curve of UV-vis absorbance at 706 nm of MnPcCl.

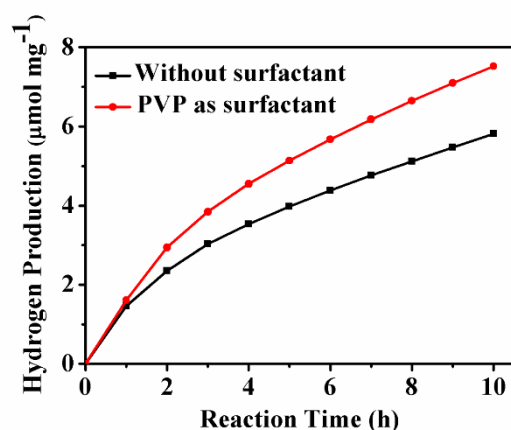


Figure S3: Hydrogen production by MnPcG in the presence or absence of surfactant. Reaction conditions: 0.5 mg of the catalyst dispersed 50 mL TEA (10%) solution, pH = 10, T = 297 K.