Electronic Supplementary Material (ESI) for Dalton Transactions.

Supporting Information

Noble-metal-free nickel phosphide modified CdS/C_3N_4 nanorods for dramatically enhanced photocatalytic hydrogen evolution under visible light irradiation

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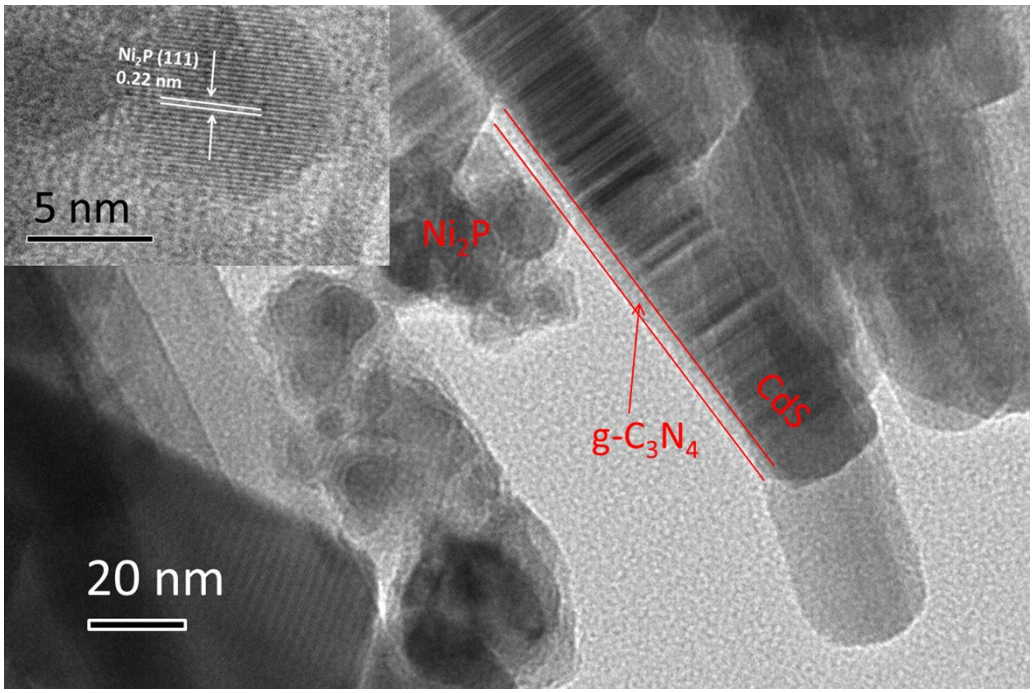

Figure S1. TEM image of 5 %Ni_2P-CdS/g-C_3N_4 (the insert is the corresponding HRTEM image of Ni_2P)

Table S1 Comparison of photocatalytic H_2 evolution activities of Ni_2P-CdS/g-C_3N_4 with other similar systems.

catalyst	Light source (wavelength)	Scavenger	H_2 evolution rate (μmol g^{-1} h^{-1})	Ref.
Ni_2P-CdS/g-C_3N_4	300 W Xe lamp (> 400 nm)	Na_2S +Na_2SO_3	44450	This work
CdS/g-C_3N_4/CuS	350 W Xe lamp (> 420 nm)	Na_2S +Na_2SO_3	1152	S 1
CdS/Au/g-C_3N_4	300 W Xe lamp (> 420 nm)	methanol	19.02	S 2
$Ni(OH)_2$-CdS/rGO	300 W Xe lamp (> 420 nm)	Na_2S +Na_2SO_3	4731	S 3
Ni@NiO/CdS/g-C_3N_4	300 W Xe lamp (> 420 nm)	triethanolamine	1258.7	S 4
g-C_3N_4-CdS-NiS	300 W Xe lamp (> 420 nm)	triethanolamine	2563	S 5
Au/ZnO/CdS	300 W Xe lamp (> 420 nm)	Na_2S +Na_2SO_3	608	S 6
CoOx-TiO_2/CdS	300 W Xe lamp (> 400 nm)	Na_2S +Na_2SO_3	660	S 7

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