

Electronic Supplementary Information
for
Efficient visible-light-induced hydrogen evolution from water
splitting using a nanocrystalline nickel phosphide catalyst

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Fig. S1 SEM image of the as-prepared sample.

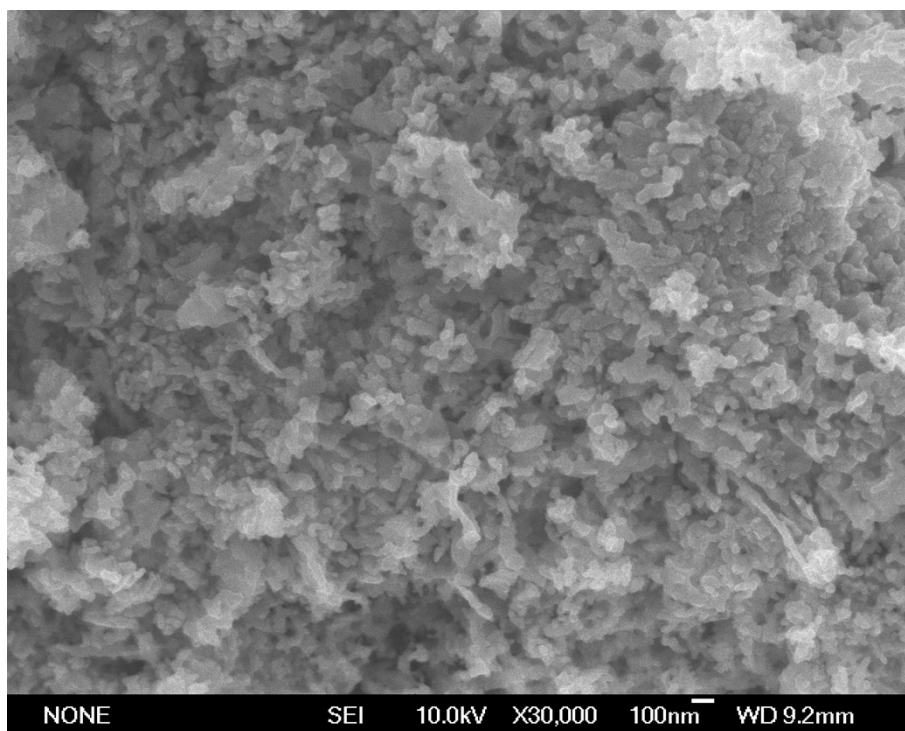


Fig. S2 XPS survey spectrum for the obtained Ni₁₂P₅ sample.

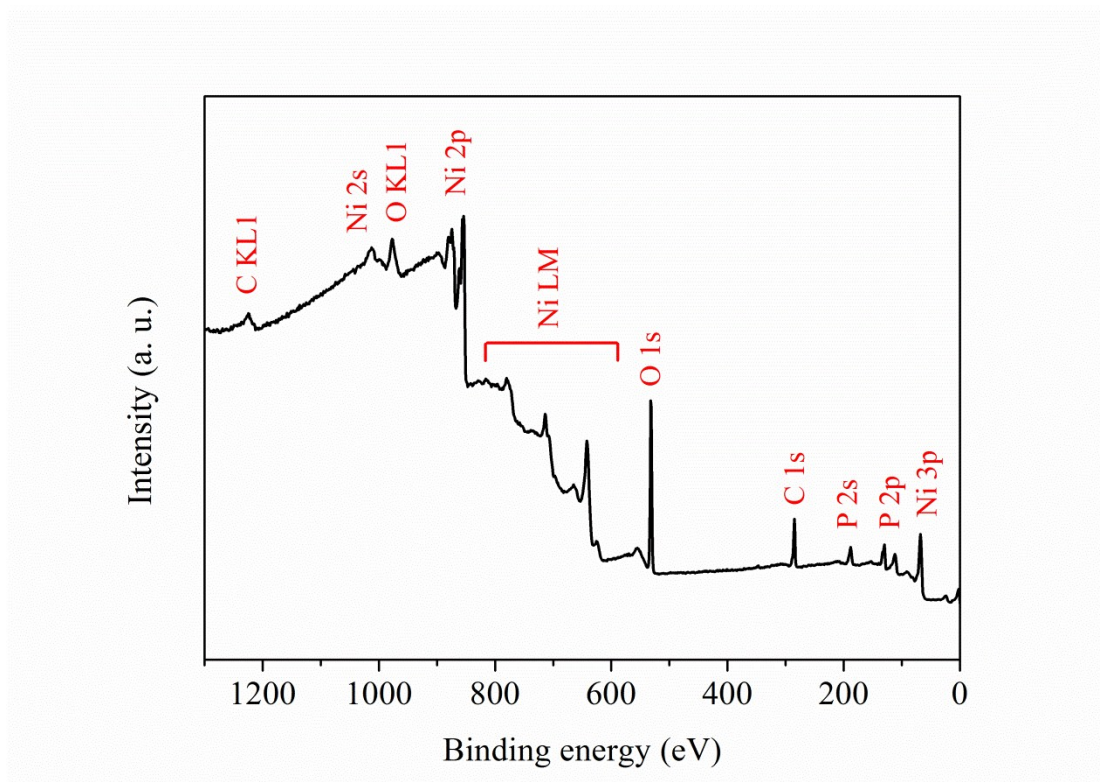


Fig. S3 XRD pattern for NiO obtained by calcining $\text{Ni}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$ at 400 °C for 2 h.

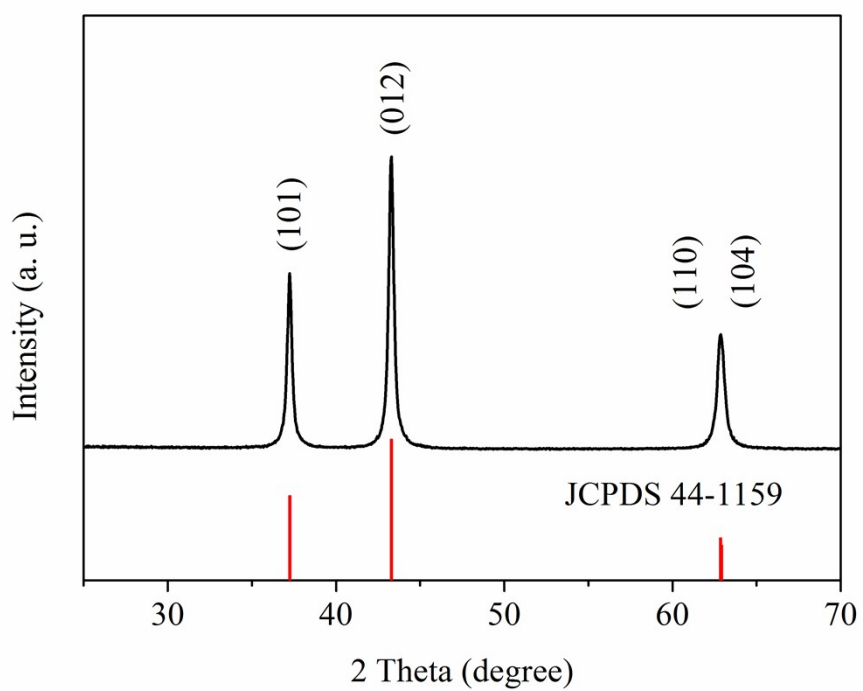


Fig. S4 H₂ evolution from water splitting in the presence of the commercial Pt/C catalyst under visible light irradiation ($\lambda \geq 420$ nm).

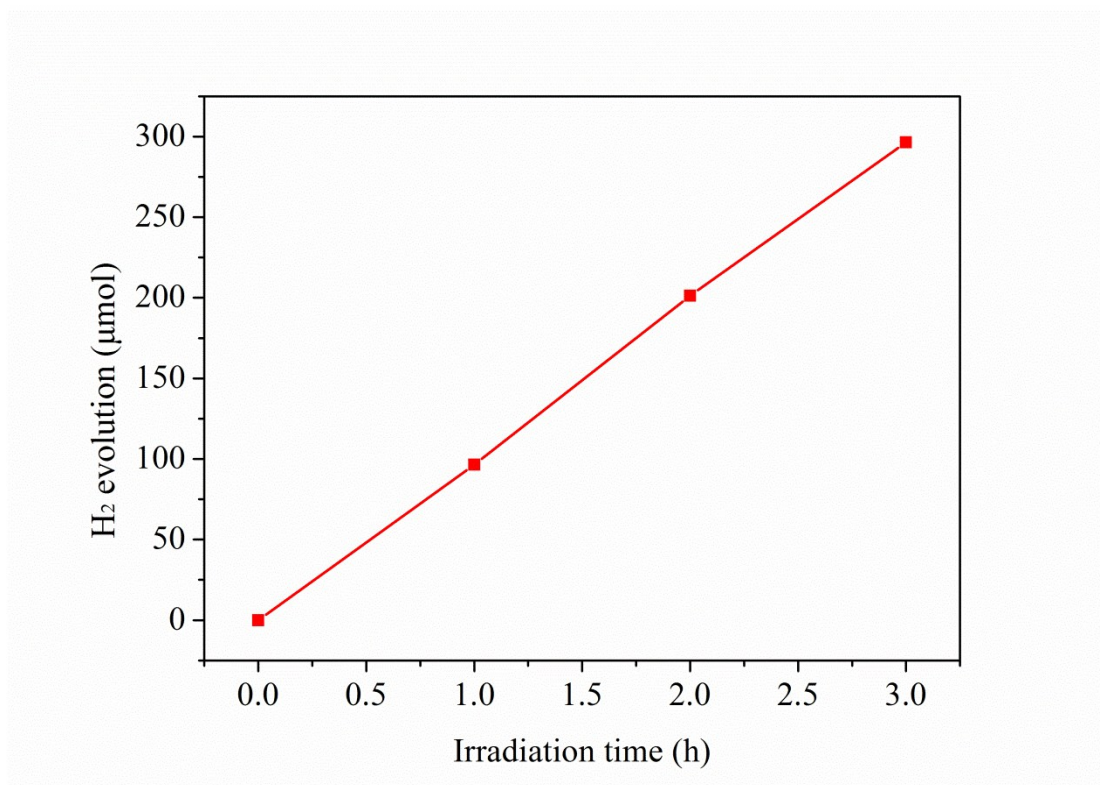


Fig. S5 XRD patterns for the as-prepared sample before and after the catalytic reaction.

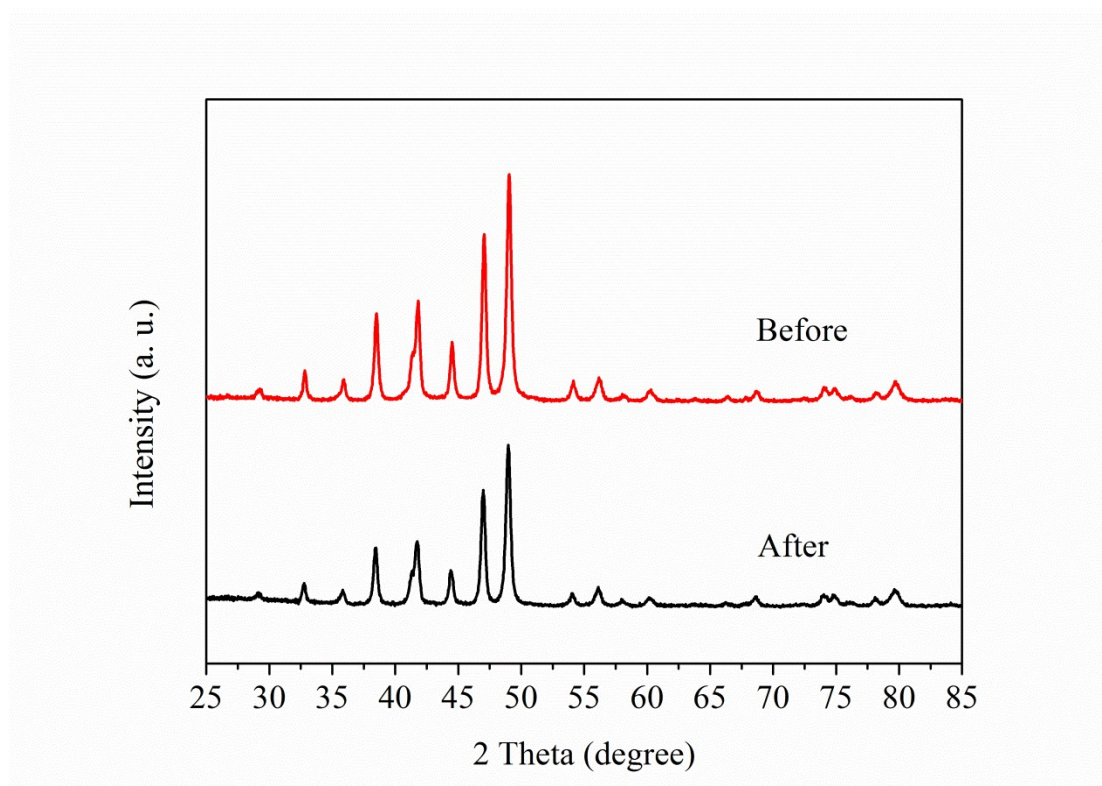


Fig. S6 High-resolution XPS spectra of (a) Ni 2p_{3/2} and (b) P 2p for the as-prepared sample before (solid lines) and after (dash lines) the catalytic test.

