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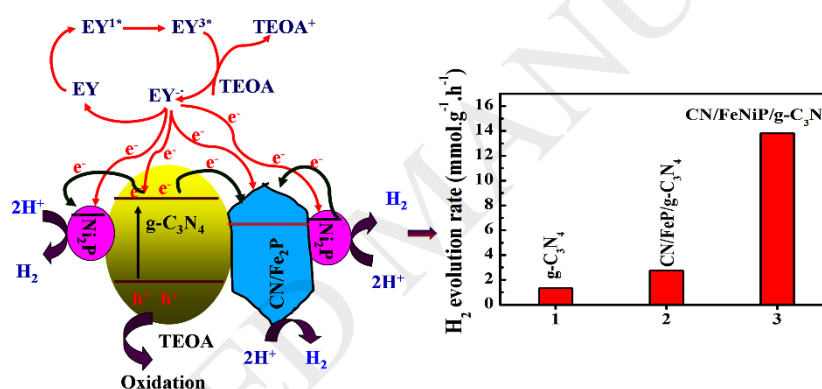
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NH₂-MIL-101(Fe)/Ni(OH)₂-derived C,N-codoped Fe₂P/Ni₂P cocatalyst modified g-C₃N₄ for enhanced photocatalytic hydrogen evolution from water splitting

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Graphical Abstract



Highlights

- Fe-MOF/Ni(OH)₂-derived CN/FeNiP was used to modify g-C₃N₄ for H₂ production.
- Charge separation of g-C₃N₄ was realized by introduction of CN/Fe₂P and Ni₂P.
- Observed enhanced photocatalytic H₂ evolution rate of 13.81 mmol·g⁻¹·h⁻¹.
- Tight interface, staggered CB between CN/Fe₂P and Ni₂P is responsible for enhance.

ABSTRACT

Constructing appropriate cocatalysts to modify semiconductors while maintaining tight interface for charge separation facilitation is important for improving photocatalytic hydrogen production. Thus, in this work, C,N-codoped Fe₂P/Ni₂P

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