

Photoelectrochemical Hydrogen Generation from Seawater Using Modified g-C₃N₄/NiO Photo-electrode Heterojunction

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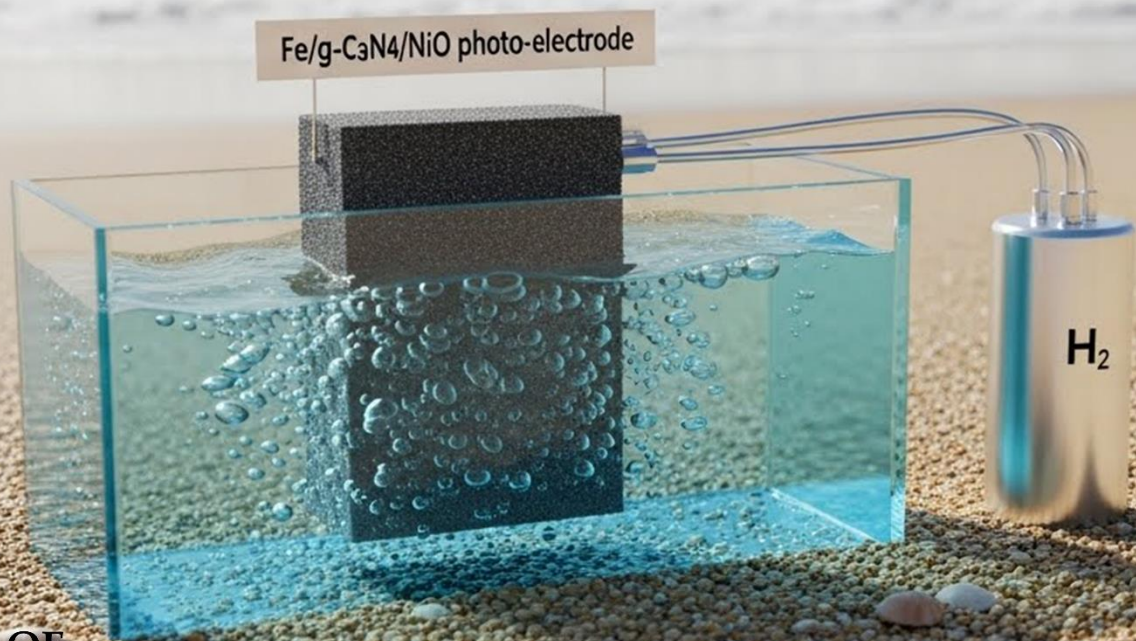
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Editor's note: Generating hydrogen through water splitting, facilitated by solar radiation, is becoming an increasingly viable method for producing clean energy. Bhattacharjee et al. studied the process of seawater splitting for hydrogen production using a nickel oxide (NiO)/iron-doped graphitic carbon nitride (Fe/g-C₃N₄/NiO) photoelectrode in combination with polyvinyl alcohol membranes, along with a molecular sensitizer. The proposed approach has the potential to promote sustainable green hydrogen production from seawater.

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