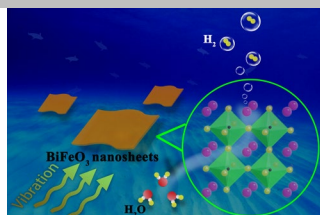


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COMMUNICATION



BiFeO_3 is piezo-catalytic active in hydrogen production via harvesting vibration energy from environment. The strong piezoelectric field induced by mechanical vibration tilts the conduction band of BiFeO_3 , making it more negative than the $\text{H}_2/\text{H}_2\text{O}$ redox potential to enable the hydrogen evolution. (see picture)

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Harvesting the Vibration Energy of BiFeO_3 Nanosheets for Hydrogen Evolution