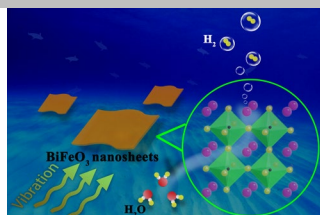


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## COMMUNICATION



BiFeO<sub>3</sub> 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<sub>3</sub>, making it more negative than the H<sub>2</sub>/H<sub>2</sub>O redox potential to enable the hydrogen evolution. (see picture)

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**Harvesting the Vibration Energy of BiFeO<sub>3</sub> Nanosheets for Hydrogen Evolution**