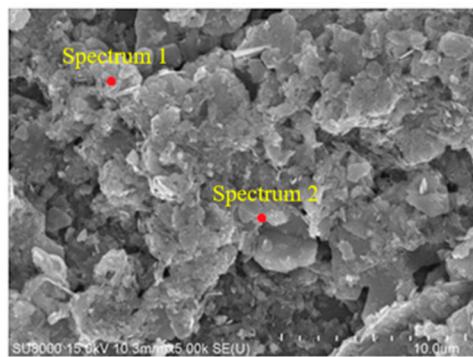


Supplementary Materials

One-Pot Synthesis of Chlorophyll-Assisted Exfoliated MoS₂/WS₂ Heterostructures via Liquid-Phase Exfoliation Method for Photocatalytic Hydrogen Production

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Atomic concentration [%]

Spectrum	Sulfur	Molybdenum	Tungsten
Spectrum 1	74.57	11.41	14.01
Spectrum 2	74.24	13.00	12.76

Figure S1. SEM image of the MoS₂/WS₂ thin film on FTO.

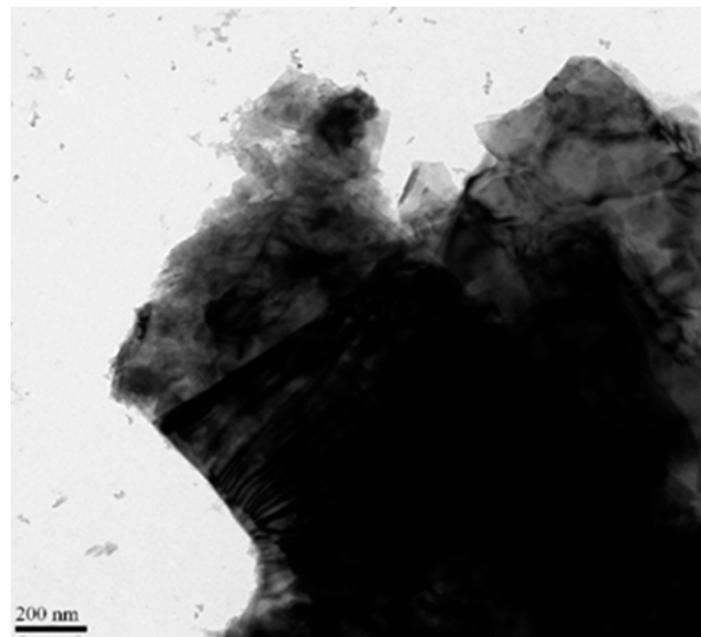


Figure S2. TEM image of the bulk TMDs (e.g. MoS₂).

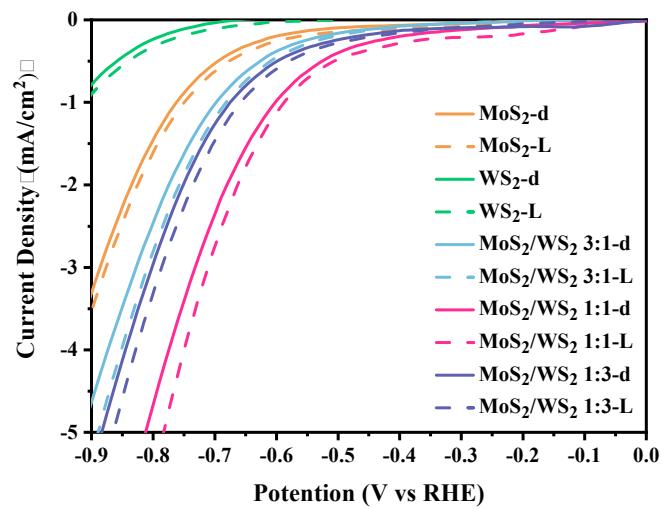


Figure S3. LSV curves of the exfoliated single material and MoS₂/WS₂ heterostructure under dark (d) and light-on (L) condition.

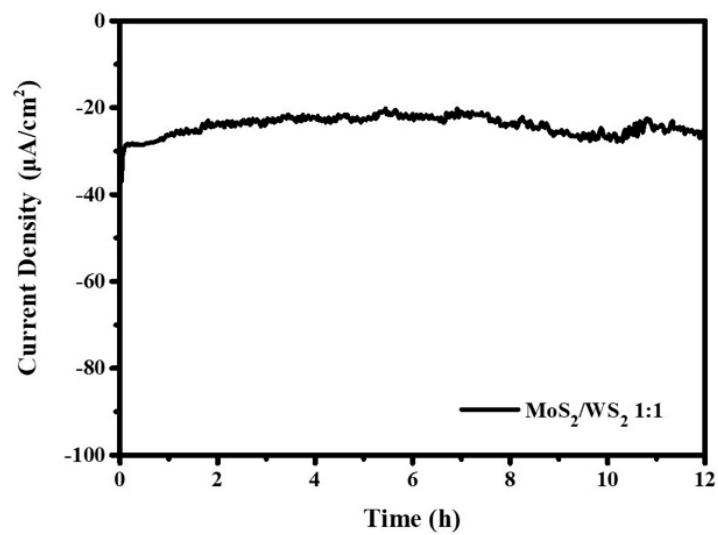


Figure S4. Irradiation time (x-axis) dependence of the HER for the MoS₂/WS₂ 1:1 (at 0 V in a Na₂SO₄ electrolyte).