

### Solar hydrogen production with ZnO composite photocatalysts

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Due to the limited amounts of fossil fuels and due to the high risks of nuclear energy usage, alternative renewable energy sources attract great attitude, almost the renewable energy resources, hydrogen is considered as a clean and environment friendly candidate. In this work. ZnO and its composite photocatalyst are manufactured for solar water splitting reactions. Their physical and chemical properties ae examined with SEM, TEM, XRD, and UV-vis systemsd. In additon, solar simulator is also used to measure hydrogen product rates.