

Solar hydrogen production by water splitting from Zn/Ni composite

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Energy sources based on fossil fuels have become limited, and that alternative energy developments has become a hot topic. Many renewable resources such as geothermal, wind and hydrogen fuel is getting attention.

Among the various hydrogen production technologies, there is a method of producing hydrogen using a photocatalysts. In this work, photocatalysts are synthesized using zinc-based precursor materials. The synthesized photocatalysts are examined by SEM, TEM, XRD, UV-vis, and the hydrogen production are measured using a solar simulator and gas chromatography.