

Photocatalytic hydrogen production with ZnO/Cu₂O/CuO materials

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With the depletion of existing fuels, development of new renewable energy is needed. In the sense, hydrogen energy is spotlighted, and technologies such as hydrogen cars are being developed.

One of the hydrogen production technologies is water splitting hydrogen production using photocatalysts. Hydrogen is produced by decomposing water using photoelectric effects. Zinc oxide and copper oxides as photocatalytic materials.

The synthesized photocatalysts are used to measure the surface properties and many analytical methods such as SEM, TEM, XPS, XRD, and UV-vis are used, hydrogen production using a solar simulator and gas chromatography