



Showcasing cutting-edge research on CeVO_4 catalysts for renewable hydrogen from Dr. Ejaz Hussain and Dr. Khezina Rafiq's laboratory 52s, Institute of Chemistry, The Islamia University of Bahawalpur, Pakistan.

Insight into the development and proceedings of Au@Al-CeVO_4 catalysts for water splitting: an advanced outlook for hydrogen generation with sunlight

This research article reports a promising approach for sustainable hydrogen generation from water splitting. New catalysts, namely Au@Al-CeVO_4 photocatalysts, have been found to be effective catalysts for renewable energy. The results show that Au, along with Al doping, not only control the stability of CeVO_4 but also enhance the catalytic performances during photoreaction. Higher activities were attributed to the combined contributions of LSPR of Au and electron deficient Al centers. The comprehensive analysis makes this work distinct among other reported studies in the same area.

As featured in:



See Khezina Rafiq, Ejaz Hussain *et al.*, *Catal. Sci. Technol.*, 2024, **14**, 850.