

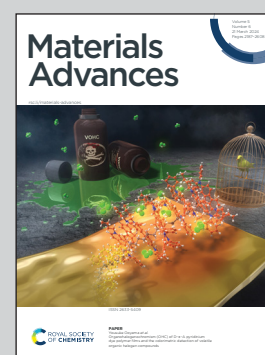


Showcasing a cutting-edge research for catalytic hydrogen production on Pd@Ti₃C₂T_x-TiO₂ from Dr Ejaz Hussain and Dr Khezina Rafiq's laboratory 52s, Institute of Chemistry, The Islamia University of Bahawalpur-63100, Pakistan.

Scaling up the charge transfer on Pd@Ti₃C₂T_x-TiO₂ catalysts: a sustainable approach for H₂ generation *via* water splitting

This study represents an advanced scientific approach for hydrogen generation from water splitting. As reported catalysts *i.e.* Pd@Ti₃C₂T_x-TiO₂ have been found to be extremely stable and attractive for hydrogen generation. The results depict that, Pd, along with TiO₂, not only controls the charge transfer but also enhances the catalytic performances during photoreaction. Findings of this study can be anticipated to guide design of new catalysts for hydrogen energy applications. Moreover, comprehensive assessment has made this work distinct among other reported studies in the same area.

As featured in:



See Khezina Rafiq,
Ejaz Hussain *et al.*,
Mater. Adv., 2024, 5, 2238.