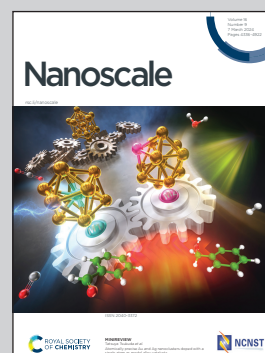


Showcasing research from Professor Liang Qiao's laboratory, School of Physics, University of Electronic Science and Technology of China, Chengdu, China.

Charge transfer in TiO<sub>2</sub>-based photocatalysis: fundamental mechanisms to material strategies

This review systematically explores various charge transfer/separation from fundamental to material strategies in TiO<sub>2</sub>-based heterojunction photocatalysts. It discusses ongoing efforts in developing these photocatalysts for various applications, providing insights and challenges. The review aims to be a valuable resource for enhancing the efficiency of TiO<sub>2</sub>-based heterojunctions in energy generation and environmental remediation.

As featured in:



See Amir Zada, Fazal Raziq, Pengfei Xia, Liang Qiao *et al.*, *Nanoscale*, 2024, **16**, 4352.