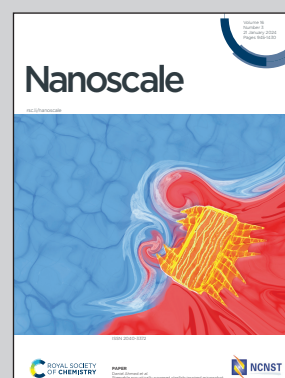


Showcasing research from Dr. Zhou Chen's group at College of Materials, Key Laboratory of High Performance Ceramics Fibers (Xiamen University), Ministry of Education, Xiamen University, China.

Interfacial electric field construction of hollow PdS QDs/Zn_{1-x}Cd_xS solid solution with enhanced photocatalytic hydrogen evolution

A hollow PdS QDs/Zn_{1-x}Cd_xS solid solution has been successfully synthesized, with the regulation of hollow morphology, band structure modulation of solid solution, and introduction of co-catalysts, greatly promoting the separation of electron-hole pairs in photocatalytic processes. This highly active composite catalyst is used for photocatalytic hydrogen evolution, providing a potential efficient photocatalytic hydrogen production system for large-scale production and application of hydrogen energy.

As featured in:



See Zhou Chen *et al.*, *Nanoscale*, 2024, **16**, 1147.