

ADVANCED FUNCTIONAL MATERIALS

HYDROGEN PRODUCTION

Materials based on gold nanoparticles supported on TiO_2 are extremely efficient photocatalysts for the production of H_2 from ethanol. On page 241, A. Corma and co-workers achieve high production rates and selectivities (>99.3%) under simulated solar light. By using this technology, a photocatalytic process yielding a gaseous stream composed of almost pure H_2 with the sun as the only energy source can be envisaged.

