



Showcasing joint research from Pohang University of Science and Technology (POSTECH), Republic of Korea, and Tokyo Institute of Technology (TIT), Japan.

Selective dual-purpose photocatalysis for simultaneous  $\text{H}_2$  evolution and mineralization of organic compounds enabled by a  $\text{Cr}_2\text{O}_3$  barrier layer coated on  $\text{Rh}/\text{SrTiO}_3$

Dual-purpose photocatalysis for  $\text{H}_2$  evolution with the simultaneous mineralization of 4-chlorophenol can be achieved under de-aerated conditions using a  $\text{Cr}_2\text{O}_3/\text{Rh}/\text{SrTiO}_3$  photocatalyst, which has Rh nanoparticles covered by a thin  $\text{Cr}_2\text{O}_3$  barrier layer to selectively control the dual-function surface redox reactions.

As featured in:



See Wonyong Choi *et al.*,  
*Chem. Commun.*, 2016, **52**, 9636.



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