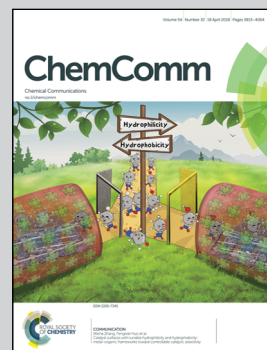


Showcasing collaborative research from Prof. Masahiro Miyauchi's group (Tokyo Institute of Technology, Japan) and Dr Hideki Abe's group (National Institute of Materials Science, Japan).

A Cu–Zn nanoparticle promoter for selective carbon dioxide reduction and its application in visible-light-active Z-scheme systems using water as an electron donor

An efficient Z-scheme system has been developed based on Cu–Zn nanoparticles modified light harvesting semiconductors. The system selectively converts CO_2 to HCOOH under visible light irradiation through water oxidation. Our system consists of robust, safe and inexpensive inorganic materials and is promising for a natural plant-like artificial photosynthesis.

As featured in:



See Hideki Abe,
Masahiro Miyauchi et al.,
Chem. Commun., 2018, **54**, 3947.



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