

Showcasing research from Professor Kudo's laboratory, Department of Applied Chemistry, Tokyo University of Science, Tokyo, Japan.

Highly crystalline $Na_{0.5}Bi_{0.5}TiO_3$ of a photocatalyst valence-band-controlled with Bi(III) for solar water splitting

A highly crystalline $Na_{0.5}Bi_{0.5}TiO_3$ powder with a perovskite structure was successfully synthesized using a NaCl-flux method. The powdered photocatalyst in which the valence band consisted of Bi(III) showed a 5.1% apparent quantum yield at 350 nm for water splitting.





See Akihiko Kudo *et al., Chem. Commun.,* 2021, **57**, 323.



