

Dr Akihide Iwase's publication (last 5 years)

1. "A Simple Preparation Method of Visible-Light-Driven BiVO₄ Photocatalysts from Oxide Starting Materials (Bi₂O₃ and V₂O₅) and Their Photocatalytic Activities" A. Iwase, H. Kato, A. Kudo, J. Solar Energy Engineering, *in press*.
2. "Time-Resolved Infrared Absorption Study of NaTaO₃ Photocatalysts Doped with Alkali Earth Metals" M. Maruyama, A. Iwase, H. Kato, A. Kudo, H. Onishia, *J.Phys.Chem.C*, **2009**, *113*, 13918-13923.
3. "Sensitization of NaMO₃ (M: Nb and Ta) photocatalysts with wide band gaps to visible light by Ir doping" Akihide Iwase, Kenji Saito, and Akihiko Kudo, *Bull. Chem. Soc. Jpn.*, **2009**, *82*, 514-518.
4. "Loading effect of silver oxides upon generation of reactive oxygen species in semiconductor photocatalysis" Shigeru Kohtani, Kazuhiro Yoshida, Toshiyasu Maekawa, Akihide Iwase, Akihiko Kudo, Hideto Miyabe, Ryoichi Nakagaki, *Phys. Chem. Chem. Phys.* **2008**, *10*, 2986-2992.
5. "The effect of co-catalyst for Z-scheme photocatalysis systems with Fe³⁺/Fe²⁺ electron mediator on overall water splitting under visible light irradiation" Yasuyoshi Sasaki, Akihide Iwase, Hideki Kato, Akihiko Kudo, *J. Catal.* **2008**, *259*, 133-137.
6. "Role of Iron Ion Electron Mediator on Photocatalytic Overall Water Splitting under Visible Light Irradiation using Z-Scheme Systems" Hideki Kato, Yasuyoshi Sasaki, Akihide Iwase, Akihiko Kudo, *Bull. Chem. Soc. J.* **2007**, *80*, 2457-2464.
7. "Effects of doping of metal cations on morphology, activity, and visible light response of photocatalysts" Akihiko Kudo, Ryo Niishiro, Akihide Iwase, Hideki Kato, *Chem. Phys.* **2007**, *339*, 104-110.
8. "Nanosized Au particles as an efficient cocatalyst for photocatalytic overall water splitting" Akihide Iwase, Hideki Kato, Akihiko Kudo, *Catal. Lett.* **2006**, *108*, 7-10.
9. "A Novel Photodeposition Method in the Presence of Nitrate Ions for Loading of an Iridium Oxide Cocatalyst for Water Splitting" Akihide Iwase, Hideki Kato, Akihiko Kudo, *Chem. Lett.* **2005**, *34*, 946-947.
10. "Formation of Surface Nano-Step Structures and Improvement of Photocatalytic Activities of NaTaO₃ by Doping of Alkaline Earth Metal Ions" Akihide Iwase, Hideki Kato, Hiroaki Okutomi, Akihiko Kudo, *Chem. Lett.* **2004**, *33*, 1260-1261.