

TiO₂ Photocatalysis and Diamond Electrode

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Chemical conversion of light energy is an ideal technology, and the tremendous amount of research of semiconductor photoelectrochemistry, photocatalysis, and electrochemistry has been carried out over the last half century. I will explain the present situation of photocatalysis.

The realization of the Sustainable Development Goals (SDGs) through carbon recycling technology is also an urgent issue to be addressed because of the environmental problems on a global scale. In the present talk, I will explain and introduce the recent progress, and our main target of CO₂ reduction using diamond electrodes.