Special Issue

Photocatalysts for Pollutants Disposals, CO_2 Reduction, Hydrogen Evolution Reaction

Message from the Guest Editors

In recent years, photocatalysis technology has made some progress in the fields of degradation of pollutants, antibacterial sterilization and hydrogen production from photolysis water and reductions in carbon dioxide, but there is still a wide band gap and low-utilization rate of sunlight. Problems, such as low quantum efficiency and poor stability, limit its practical application. How to expand the absorption rate and absorption range of solar light, restrain the recombination of photogenerated electrons and hole pairs and improve the activity of the whole solar spectrum are the key scientific problems that need to be solved in the field of solar light absorption and absorption on a large scale. This Special Issue will present the most recent and significant developments in photocatalysts for pollutants disposals, CO2 reduction and hydrogen evolution reaction, where such systems are widely used. Original papers on the above topics and short reviews are welcome for submission.

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