Special Issue

Advance in Photocatalysis in Asia

Message from the Guest Editors

Photocatalytic processes have shown great potential as a low-cost, green-chemical, and sustainable technology which can address energy and environmental issues. The photocatalytic degradation of organic pollutants in the environment is a clean way of modern green environmental protection. In addition, photocatalysis is also widely used in energy conversion, such as photocatalytic hydrogen production, perovskite solar cell, and alcohol fuel conversion. More interestingly, photocatalysis shows great potential in the context of carbon neutrality, such as converting carbon dioxide into value-added chemicals, fixing nitrogen under mild conditions. This Special Issue welcomes research on the design and preparation of photocatalytic materials, the principle of semiconductor photocatalysis, semiconductor photoelectrochemistry, photocatalytic research methods, and the latest applications of photocatalytic materials in energy conversion and environmental purification.

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