

Special Issue

Advances in High-Performance Photocatalytic Materials

Message from the Guest Editors

Photocatalysis has emerged as a highly potential process offering simple, green, and practical solutions to tackle environmental pollution and develop renewable energy supplies. Specifically, by using photocatalyst materials and light as input energy sources, this process can produce renewable fuels and energy carriers or initiate the decomposition/mineralization of pollutants without releasing by-products. Developing efficient photocatalysts is an essential step to achieve effective photocatalysis. This Special Issue aims to bring readers the latest advances in research on developing high-efficiency materials for different photocatalytic applications (e.g., H₂ production, CO₂ reduction, and pollutant degradation, etc.) with a particular focus on new materials, novel synthesis and/or engineering strategies, and the mechanism study of photocatalytic activity. We are pleased to invite researchers from all over the world who are strongly interested in these aspects to submit their original research and review papers. We believe that the expected contributions to this Special Issue will make it one of the prime sources for applied material-related research.

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