

Special Issue

Design and Synthesis of Functional Materials for Photocatalysis

Message from the Guest Editor

The fast-paced development of the world's industry results in a better life for a great number of individuals in terms of employment. Nevertheless, this development is expected to inevitably cause environmental issues of contamination as well as energy crises. Owing to the advantages of high efficiency, environmental friendliness, pollution-free and low cost, photocatalytic technology has been recognized as a promising route for many energy and environmental-related issues such as environmental pollutants treatment, gas sensing, CO₂ reduction, CH₄ reformation, H₂ generation and so on. In recent decades, many researchers have focused on the fabrication of various nanostructures and nanocomposites to enhance the photocatalytic performance and the design of photocatalysts are still important in current and future research. This Special Issue aims to provide a platform for researchers to share developments in the design and synthesis of functional materials for photocatalysis. Original research papers, review articles and short communication letters are all welcome.

Guest Editor

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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