

Special Issue

Photocatalytic Materials and Photocatalytic Reactions

Message from the Guest Editor

Photocatalysis as one of the most promising strategies to address the severe issues of environment and energy has attracted extensive and ongoing attention. Designing advanced photocatalytic materials with expected performance and exploring green photocatalytic reactions with carbon neutrality are significant for sustainability. Low-dimensional nanomaterial is a rising star in photocatalysis due to the unique and fascinating properties of materials such as inorganic nonmetallic materials, MOFs, LSPR materials, various nanocomposites, etc. This Special Issue focuses on designing advanced photocatalysts, understanding their structure-dependent properties, and seeking to exploit them in the fields of energy conversion, pollutant degradation, artificial photosynthesis, organic synthesis, etc.

Guest Editor

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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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