

Special Issue

Novel and Emerging Photocatalysts for Hydrogen Production and Decontamination of Pollutants

Message from the Guest Editors

This Special Issue intends to gather innovative thinking on the controlled synthesis of cutting-edge nanomaterials for extremely effective photocatalytic, electrocatalytic, and photoelectrochemical and removal of organic pollutants and fuel generation such as water dissociation, reduction, and oxidation. Additionally, we would want to emphasize recent developments in research on the mechanisms underlying the reduction process, energy conversion, and the photodegradation of organic contaminants in both water and the atmosphere. To support the widespread use of solar photocatalysts technology, investigations that concentrate on the design of associated reaction cells and devices are especially encouraged. This Special Issue's focus includes combining photo electrocatalysis with other environmentally friendly and sustainable methods. This Special Issue welcomes original research articles and reviews for publication.

Guest Editors

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About the Journal

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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