

Special Issue

Metal–Semiconductor Nanoheterostructures for Photocatalysis Application

Message from the Guest Editor

Photocatalysis offer an opportunity to produce renewable energy to replace fossil fuels. This Special Issue will provide an interdisciplinary platform for experts to interact and share their findings on a wide range of topics related to photoelectrochemistry and photophysics of semiconductor nanostructures. The central theme covers the recent progress and scientific challenges of integrating light absorbers and catalysts into subsystems, with the goal of achieving water splitting, CO₂ reduction, environmental remediation, as well as solar fuel generation. On the other hand, an in-depth comprehension of charge carrier dynamics helps to ascertain the elements determining the carrier use efficiency, which is also crucial for the rational design of ideal photocatalyst systems.

Guest Editor

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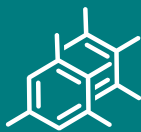


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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th 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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