Special Issue

Functional Photocatalysts: Material Design, Synthesis and Applications

Message from the Guest Editor

We are pleased to welcome you to this innovative, exciting and encouraging new multidisciplinary topic. Sustainable green and efficient technologies are recognized as one of the greatest challenges in chemical engineering. It is reported that photocatalysis is one of the most promising eco-friendly technologies that can work under milder operating conditions than conventional processes when photon activation is performed using a cost-effective light source rather than thermal activation. Extensive research has been conducted on a range of topics including the design and synthesis of photocatalysts; photocatalytic-mechanism clarification; co-catalysts, single-atom catalysts, organic-inorganic hybrid materials, bio-inspired materials, and heterojunctions; photoreactor design and modeling; scale-up and commercialization for development on photocatalytic reactions. It is our expectation to receive your submissions promptly, to display your excellent research results to a wide audience through an open-access publication, and to present the research community with fresh perspectives on the design and synthesis of functional materials for photocatalysis.

Guest Editor

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Deadline for manuscript submissions

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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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