Special Issue

Current Advances in Photochemistry

Message from the Guest Editors

In recent years, photochemistry has undergone considerable development in various fields of science, as well as influenced several aspects of our life. The study of photochemical systems can exploit sunlight in order to drive chemical reactions or to generate electricity, which is of great practical significance for the production of sustainable energy vectors. This Special Issue aims to provide an overview on the latest achievements in photochemistry, highlighting new molecular, supramolecular, and/or material-based systems, as well as their use in applications such as (but not limited to) bioimaging, functional devices, and catalysis. Particular attention can be given to the artificial photosynthesis approach, i.e., to the design of new molecular chromophores, redox catalysts, and electron donors/acceptors for solar energy conversion into value-added products or fuels. Studies of the dynamics of energy/charge transfer processes, also by means of ultrafast techniques, will also be welcomed.

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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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