Special Issue

New Insights in Photoredox Catalysis

Message from the Guest Editor

Photoredox catalysis is currently one of the most significant research topics in chemistry, because photoinduced electron transfer (PET) with organic substrates can provide unique processes for organic synthesis, polymer synthesis, modification of materials, fluorescence sensors, etc. In addition, the photochemical method represents a less toxic and milder process than conventional methods, because light is a clean and traceless reagent. Therefore, this Special Issue aims to illustrate the recent developments in the uses of photoinduced redox processes with organic molecules. The contributions will focus on a broad range of organic reactions by effective homogeneous and heterogeneous photoredox catalysts, as well as on their involvement in the polymer synthesis or modification of materials or fluorescence sensors. Communications, full papers and reviews on the abovementioned topics are particularly welcome.

Guest Editor

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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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