Special Issue

Solar Chemicals Production and Environmental Remediation with Semiconductor/Carbon Photocatalysts

Message from the Guest Editors

One of the main challenges of a global energy strategy is the development of new sustainable fuels and chemicals based on renewable energies. Solar fuels and chemicals are promising strategic pathways. However, the efficiency is still low and far for the practical application. Thus, highly active photocatalysts are required to produce solar and chemical fuels. The purpose of this Special Issue, entitled "Solar Chemicals Production and Environmental Remediation with Semiconductor/Carbon Photocatalysts" is to cover significant recent advances in the area of solar chemicals, also referred to as solar-driven chemical reactions, using advanced oxidation/reduction processes through the development of efficient semiconductor/carbon-based photocatalysts. Works related with the eco-friendly synthesis routes of innovative carbon-based photocatalysts for the production of energy vectors like H2 or other fuels, CO2 reduction, photo-assisted valorization of organic molecules, and the environmental remediation of polluted water and air are welcome to be submitted to this Special Issue.

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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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