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Solar Chemicals Production and Environmental Remediation with Semiconductor/Carbon Photocatalysts

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Message from the Guest Editors

Dear Colleagues,

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.

Prof. Dr. Juan Matos Lale

Dr. Alicia Gomis Berenguer

Guest Editors



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Special Issue



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Message from the Editor-in-Chief

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