Special Issue

Advanced Photocatalysts for Energy Conversion and Environmental Applications, 2nd Edition

Message from the Guest Editor

Following the success of the first Special Issue, "Advanced Photocatalysts for Energy Conversion and Environmental Applications", we are launching a second edition titled "Advanced Photocatalysts for Energy Conversion and Environmental Applications, 2nd Edition" and invite submissions from selected experts in this field. Photocatalysis is an advanced technique that transforms solar energy into sustainable fuels and oxidizes pollutants via the aid of semiconductor photocatalysts. The main scientific and technological challenges for effective photocatalysis are the stability, robustness, and efficiency of semiconductor photocatalysts. For practical applications, developments in energy conversion (i.e., hydrogen evolution, CO2 reduction, and oriented synthesis) and environmental remediation (i.e., air purification, antibacteria and wastewater treatment) for highly efficient and stable photocatalysts are needed. This Special Issue plans to offer an opportunity for the publication of original research regarding the synthesis of novel photocatalytic materials and their application in energy conversion and environmental remediation.

Guest Editor

Dr. Ruowen Liang

Fujian Province University Key Laboratory of Green Energy and Environment Catalysis, Ningde Normal University, Ningde, China

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Molecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt
Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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