

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.

Guest Editors

Prof. Dr. Juan Matos Lale

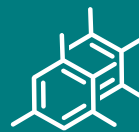
Unidad de Cambio Climático y Medio Ambiente (UCCMA), Instituto Iberoamericano de Desarrollo Sostenible (IIDS), Facultad de Arquitectura, Construcción y Medio Ambiente, Universidad Autónoma de Chile, Temuco 4780000, Chile

Dr. Alicia Gomis Berenguer

CEMHTI Site Haute Température, CNRS (UPR 3079), 1D Av. de la Recherche Scientifique CS 90055, 45071 Orléans, CEDEX 2, France

Deadline for manuscript submissions

closed (31 July 2019)



Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



mdpi.com/si/17107

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

[mdpi.com/journal/
molecules](https://mdpi.com/journal/molecules)





Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



[mdpi.com/journal/
molecules](https://mdpi.com/journal/molecules)



About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of
Münster, Corrensstrasse 48, D-48149 Münster, Germany

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Reaxys, CaPlus / SciFinder, MarinLit, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore
- Q1 (Organic Chemistry)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).