

Special Issue

Metal Sulfide-Based Photocatalysts for Environmental Remediation and Green Energy Production

Message from the Guest Editor

The growth in the global population has resulted in the constant increase in environmental pollution and the need for sustainable and cheap energy sources. Therefore, the design and development of advanced materials for environmental remediation and green energy production are significant topics. There are a wide range of materials with photocatalytic applications, such as semiconductors, semiconductor-based heterojunctions, perovskites, and metal-organic frameworks (MOFs). Among these materials, due to their unique properties, such as suitable band gap energy for the absorption of light in the Vis and/or UV regions, chemical and photochemical stability, particle size, surface area morphology, etc., metal sulfide semiconductor nanostructures are considered attractive candidates for water/air treatment and purification, hydrogen production via photoelectrolytic water splitting, CO₂ reduction, the photodynamic therapy of cancer, and self-cleaning surfaces. It is our pleasure to invite you to submit original research articles and reviews to the Special Issue, focusing on, but not limited to, the abovementioned issues.

Guest Editor

Prof. Dr. Luminița Isac

Product Design, Mechatronics, and Environmental Department,
Transilvania University of Brasov, 500036 Brasov, Romania

Deadline for manuscript submissions

closed (30 August 2024)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/139092

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

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





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

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