

Special Issue

Molecular Research in Functional Nanomaterials

Message from the Guest Editor

Functional nanomaterials are systems composed of precisely designed molecules whose nanoscale arrangement determines their unique physical, chemical, optical, or magnetic properties.

Understanding and controlling these properties requires insight into their molecular structure and interactions at the single-molecule level. Recent advances in molecular modelling, bottom-up synthesis, and nanoscale engineering have enabled the development of materials in which only a small number of functional groups can produce significant effects. However, the limited number of active groups poses a serious analytical challenge, often exceeding the capabilities of conventional techniques.

In this Special Issue of IJMS, we focus on the latest trends in studying functional nanomaterials at the molecular level. We invite articles on the relationship between structure and functionality using high-energy techniques, high-resolution spectroscopy, electron and cryo-electron microscopy, scanning methods, or computer simulations. We especially welcome submissions presenting innovative approaches to characterising nanoscale molecular configurations, intermolecular forces, dynamic behaviour.

Guest Editor

Prof. Dr. Łukasz Laskowski

Henryk Niewodniczanski Institute of Nuclear Physics, Polish Academy of Sciences, Krakow, Poland

Deadline for manuscript submissions

31 January 2026



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/248093

*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)