

Special Issue

Biologically Synthesized Nanomaterials and Their Nanocomposites for Biomedical Applications

Message from the Guest Editors

The unique and superior properties of nanomaterials have revealed strong potential for rapid development of nanotechnology based biomedical applications. There are already some nanomaterials-based products available in the market and many are in the pipeline for commercialization. Of various methods for the synthesis of nanosized materials, green approaches by using natural materials are widely adopted in biomedical fields to avoid organic passivators which are hazardous both for the environment and human body. Over the last decade, many studies have been devoted to preparing green nanomaterials that possess biological activities for various medicinal applications. Therefore, the objective of this research topic is use of biosynthesized nanomaterials and their biocomposites for various biomedical applications such as dental composites, tissue engineering, drug delivery, biosensors, microneedles patches, and photothermal therapy.

The aim of this Special Issue is to collate original research and review articles with a focus on the nanomaterial and nanocomposites and their biomedical applications.

Guest Editors

Dr. Pooyan Makvandi

Istituto Italiano di Tecnologia, Centre for Materials Interface, viale Rinaldo Piaggio 34, 56025 Pontedera, Pisa, Italy

Dr. Ehsan Nazarzadeh Zare

School of Chemistry, Damghan University, Damghan 36716-45667, Iran

Deadline for manuscript submissions

closed (31 January 2022)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/69999

*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)* 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, and molecular biophysics. *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. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology
"Jose Mataix", Biomedical Research Center, University of Granada,
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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, CAPus / SciFinder, and other databases.

Journal Rank:

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