

Special Issue

Advances in Multi-Tasked Macromolecules

Message from the Guest Editor

The emergence of new diseases worldwide, i.e., COVID-19, has forced scientists to move their focus towards multi-tasked macromolecules with bio, macro, nano, pico, and Clark setups. These modern setups may provide strong physico-chemical properties, nanoenergy banking, color-changing ability, and self-healing characteristics with sensory-actuator functions at different scales. Several novel setups may come to the picture, including hydrogelic pico-polymers, Clark-ed biopolymers, smart polymers, reversible covalent bonding systems, self-assemble and self-control macromolecular, composited pico-macro molecular, RNA-based macromolecules, transition metal-gene-polymer-coordinated complexes, neural cross-linked supramolecular which can transfer electrical pulses with the ability of reformation after rupture, artificially intelligent networks, and so on. Through original research articles and review articles, this Special Issue focuses on the above topics and other relevant topics.

Guest Editor

Dr. Abbas Amini

1. Department of Mechanical Engineering, Australian University (AU), Mishref, Safat 13015, Kuwait
2. Centre for Infrastructure Engineering Western Sydney University, Sydney, NSW 2747, Australia

Deadline for manuscript submissions

closed (31 January 2023)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/107168

*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)