

Special Issue

Molecular Insights into Synthetic Mechanisms of Polymeric Materials

Message from the Guest Editor

This Special Issue attends to recent advances in and the emerging applications of diverse polymer materials, including adhesives, biopolymers and nanocomposites, among others. This Special Issue aims to collect recent experimental and numerical studies that focus on polymer chemistry and polymer physics in order to demonstrate the principals of this natural phenomenon. We welcome the submission of articles that focus on topics that include, but are not limited to, the following: polymer synthesis and modification (polymerization/polymer architecture), multiscale processing techniques (nanocomposites/polymer blends), films and coatings (surface/ interfacial characteristics), modelling and simulation of polymer properties (dynamics/thermodynamics), molecular organization (self-assembly/crystallization), technological applications with novel functionalities (electro-/thermo-/opto-responsive polymers), and state-of-the-art experimental and characterization techniques at the bulk, solution, and molecular level (spectroscopy/scattering).

Guest Editor

Dr. Namil Kim

Department of Chemical Engineering, Hannam University, Daejeon 34054, Republic of Korea

Deadline for manuscript submissions

closed (20 April 2025)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/172569

*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)