Special Issue

Molecular Mechanisms of Toxicity Induced by Engineered Nanomaterials

Message from the Guest Editor

Engineered nanomaterials are now ubiquitous in various products and are utilized across different industrial sectors. The increased use of nanomaterials raises questions regarding the balance between their benefits and the potential hazards that they pose to human health in occupational settings. We aim to unravel the potential molecular mechanisms of toxicity induced by engineered nanomaterials, which includes examining various toxicokinetic and toxicodynamic effects in primary and secondary target organs. We would like to publish in vitro, in silico, in chemico, and in vivo data bridging the gap between in vivo studies and new approach methodologies (NAMs). We are particularly interested in human exposure-effect and epidemiological studies. Our goal is to enhance the understanding of this topic, ultimately improving the reliability and predictability of methods for the nextgeneration risk assessment of engineered nanomaterials.

Guest Editor

Prof. Dr. Shan Zienolddiny-Narui

National Institute of Occupational Health, Gydas Vei 8, 0363, Oslo, Norway

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/250427

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





International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed





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)

