Special Issue

Nanomaterials in Cancer Therapy: Synthesis, Mechanisms, and Applications

Message from the Guest Editors

In recent years, the development of new nanomaterials is an evolving field with great potential for cancer therapies. A significant progress has been made in the synthesis of nanomaterials with controlled geometry, physicochemical properties, surface charge, and the decoration of their surfaces with polymers or bioactive molecules. Regarding cancer, nanomaterials, including inorganic nanomaterials (like silica nanoparticles, magnetic nanostructures, quantum dots, etc.) and emerging organic nanomaterials (such as micelles, liposomes, and dendrimers, etc.), have studied for cancer diagnostics and therapeutics due to their solubilization effect, drug/protein protection, passive/active tumor targeting, controlled drugs release which result in enhanced anti-cancer efficacy while reducing side effects. This research topic welcomes paper include (but are not limited to):

- Design and synthesis of novel nanomaterials
- Structure identification and mechanism exploration of nanomaterials
- Nanomaterials-based biosensor
- Nanomaterials-based drug delivery
- Nanomaterials-based bioimaging
- New therapeutic strategies based on nanomaterials

Guest Editors

Prof. Dr. Guangbao Yang

Collaborative Innovation Center of Radiation Medicine of Jiangsu Higher Education Institutions, Soochow University, Suzhou 215123, China

Prof. Dr. Dongdong Wang

Hefei National Laboratory for Physical Science at Microscale, University of Science and Technology of China, Hefei 230026, China

Deadline for manuscript submissions

closed (31 August 2024)

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/137955

Molecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

mdpi.com/journal/molecules

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/journal/molecules

MDPI

About the Journal

Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt
Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Reaxys, CaPlus / SciFinder, MarinLit, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).