molecules

an Open Access Journal by MDPI

IMPACT FACTOR 4.6

Indexed in: PubMed

CITESCORE 6.7

Complex Multifunctional Organic/Inorganic Nanocarriers

Guest Editors:

Prof. Dr. Luigi Paduano
Department of Chemical Science, Complesso Monte S. Angelo, Via Cinthia 4, 80126 Naples, Italy

Dr. Giuseppe Vitiello
1. Department of Chemical, Materials and Production Engineering, University of Naples Federico II, P. le Tecchio 80, 80125 Naples, Italy
2. Center for Colloid and Surface Science (CSGI), Via della Lastruccia, 80100 Sesto Fiorentino, Italy

Deadline for manuscript submissions:
closed (30 April 2023)

Message from the Guest Editors

Nanocarriers have shown great opportunities in the field of targeted drug delivery, especially in cancer therapy. The functionalization of nanomaterials through the simultaneous assembly of chemical moieties has been a strategy of wide interest. Imparting multifunctionality to nanocarriers controls their biological interaction in a desired fashion and enhances the efficacy of therapy and diagnostic protocols. An increasing interest is the design and formulation of complex multifunctional nanocarriers (i.e., nanohybrids; protocells; lipid-coated and/or polymeric-coated nanoparticles). Indeed, they show improved properties such as a high loading capacity, great stability, higher biocompatibility, reduced clearance, and increased targeting flexibility.

This Special Issue aims to attract contributions on all aspects of the chemistry, physico-chemistry, and biological activity of complex multifunctional organic and organic/inorganic nanocarriers. The challenge remains to further explore the range of their chemical and biophysico-chemical features, as well as their potential applications as biomedical (i.e., theranostic, diagnostic, anticancer, antibody, and antioxidant) nanosystems.

molecules

IMPACT FACTOR 4.6 | Indexed in: PubMed | CITESCORE 6.7

an Open Access Journal by MDPI

Editor-in-Chief

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

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.

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, MEDLINE, PMC, Reaxys, CaPlus / SciFinder, MarinLit, AGRIS, and other databases.
Journal Rank: JCR - Q2 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (*Chemistry (miscellaneous)*)

Contact Us

Molecules Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/molecules
molecules@mdpi.com
𝕏@Molecules_MDPI