



## 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.





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](http://www.mdpi.com)

[mdpi.com/journal/molecules](http://mdpi.com/journal/molecules)  
[molecules@mdpi.com](mailto:molecules@mdpi.com)  
[X@Molecules\\_MDPI](https://twitter.com/Molecules_MDPI)