

## Special Issue

# Nanocarrier-Based Drug Delivery for Bioavailability Improvement

### Message from the Guest Editor

In recent decades, nanocarrier-based drug delivery systems have gained significant attention as a promising strategy to overcome challenges related to the poor solubility, limited absorption, and suboptimal bioavailability of many therapeutic agents. By enhancing pharmacokinetic profiles and enabling more targeted delivery, nanocarriers have shown the potential to significantly improve therapeutic outcomes across a wide spectrum of diseases. Various nanocarrier platforms have been developed and extensively studied, these systems have been employed to deliver a wide range of therapeutic agents, such as small-molecule drugs, peptides, proteins, and nucleic acids. In this Special Issue, we welcome reviews and original research focused on the development, characterization, and application of nanocarriers for drug delivery, with an emphasis on improving bioavailability and therapeutic performance. Topics of interest include novel nanocarrier design strategies, formulation optimization, in vitro and in vivo performance, and their use in the treatment of diverse diseases.

---

### Guest Editor

Dr. Van-An Duong

Institute of Molecular Medicine, The University of Texas Health Science Center at Houston, Houston, TX 77030, USA

---

### Deadline for manuscript submissions

20 November 2026



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/248563](https://mdpi.com/si/248563)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[applsci@mdpi.com](mailto:applsci@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[applsci](https://mdpi.com/journal/applsci)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, 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), Ei Compendex, Inspec, Embase, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )