

## Special Issue

# Advances in Nanoparticle-Based Therapeutics: From Extracellular Vesicles to Metal Nanocarriers for Cancer Therapy

### Message from the Guest Editor

Cancer remains one of the most complex and aggressive diseases of our time, demanding targeted therapeutic strategies. Over the past decade, two converging fields—extracellular vesicle (EV) biology and metal-based nanotechnology—have opened new frontiers in cancer therapy.

Extracellular vesicles, the body's natural messengers, are potent drug delivery vehicles, capable of transporting therapeutic molecules with high specificity and low immunogenicity. Engineered metal-based nanocarriers, such as gold, silver, and iron oxide nanoparticles, offer platforms with precise control over drug release, imaging, and multifunctional targeting.

This Special Issue explores the interface between these approaches, featuring research into EV biogenesis, engineering, and the design of metal nanocarriers. The goal is to combine biological precision and material innovation to overcome limitations in cancer treatment.

By highlighting advances, challenges, and translational perspectives, this Special Issue aims to foster collaboration across disciplines and drive the next generation of cancer therapeutics.

---

### Guest Editor

Dr. Eleni K. Efthimiadou

Inorganic Chemistry Laboratory, Department of Chemistry, National and Kapodistrian University of Athens, 15771 Zografou, Greece

---

### Deadline for manuscript submissions

31 December 2025



## Pharmaceutics

---

an Open Access Journal  
by MDPI

---

**Impact Factor 5.5**  
**CiteScore 10.0**  
**Indexed in PubMed**



[mdpi.com/si/245251](https://mdpi.com/si/245251)

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

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





# Pharmaceutics

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.5  
CiteScore 10.0  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

*Pharmaceutics* (ISSN 1999-4923) is an online open access journal on the science and technology of pharmaceuticals and biopharmaceuticals. The scientific community, the wider community and the general public have unlimited and free access to the content as soon as a paper is published; this open access to your research ensures your findings are shared with the widest possible audience. Please consider publishing your impressive work in this high quality journal. We would be pleased to welcome you as one of our authors.

---

### Editor-in-Chief

Prof. Dr. Patrick J. Sinko  
Department of Pharmaceutics, Ernest Mario School of Pharmacy,  
Rutgers University, Piscataway, NJ 08854, USA

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Pharmacology and Pharmacy) / CiteScore - Q1 (Pharmaceutical Science)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 days after submission; acceptance to publication is undertaken in 3.3 days (median values for papers published in this journal in the first half of 2025).