

Special Issue

New Frontiers in Therapies, Diagnostics and Biomedical Engineering of Clay-Based Materials

Message from the Guest Editor

Clay minerals have emerged as promising materials in biomedicine due to their exceptional properties, such as high surface area, stability, biocompatibility and surface modulation capacity. This Special Issue of *Pharmaceutics* focuses on clays and their derivatives combined with other compounds and solid materials, such as quantum dots, metals, polymers, and biomolecules, to create innovative devices and multifunctional therapeutic systems. The synthesis and characterization of these systems are essential to optimize their properties and ensure their efficacy and safety in biomedical applications. Such devices can be applied in nanomedicine strategies, photodynamic therapies, controlled release of bioactive molecules, antibacterial / anti-inflammatory systems, molecular diagnostics, and theranostic systems, which combine diagnosis and treatment in a single platform. This Special Issue invites contributions that detail the latest advances in the construction, modulation, and/or functionalization of clay-based materials for these purposes, as well as techniques for characterizing their physicochemical and biological properties.

Guest Editor

Dr. Ana Clecia Santos de Alcântara

Departamento de Química, Universidade Federal do Maranhão, São Luís 65080-805, MA, Brazil

Deadline for manuscript submissions

30 September 2025



Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



mdpi.com/si/232797

Pharmaceutics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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 pharmaceutics and biopharmaceutics. 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).