

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

closed (30 September 2025)



Pharmaceutics

an Open Access Journal
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Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



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Pharmaceutics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
pharmaceutics@mdpi.com

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Prof. Dr. Patrick J. Sinko

Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, William Levine Hall, Room 225C, 160 Frelinghuysen Road, Piscataway, NJ 08854-8020, USA

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