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 clavs 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

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