

Special Issue

Porous Inorganic Drug Delivery Systems

Message from the Guest Editor

In recent years, there has been considerable interest in the development of controlled drug delivery systems that are based on inorganic porous materials. In particular, mesoporous silica nanoparticles, zeolites mesoporous bioactive glasses, etc., have been used as promising carriers for drug delivery applications. According to IUPAC nomenclature, solid materials are classified as microporous (pore diameter less than 2 nm), mesoporous (pores are between 2 and 50 nm) and macroporous (pores greater than 50 nm). The main features of porous materials are the large surface area, their pore size and pore architecture, and their floating ability in biological media. Porous matrices can increase the solubility and bioavailability of poorly soluble drugs. Factors influencing the drug release mechanism include the pore size, interactions between the drug and the host network and stabilization of the amorphous drug phase. The aim of this Special Issue is to review the current research on inorganic materials as drug delivery systems.

Guest Editor

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