

Special Issue

Smart Drug Delivery Strategies Based on Porous Materials

Message from the Guest Editor

Nanocarrier technology is a promising tool for addressing many of the challenges associated with different drugs for their delivery via different routes, such as oral, nasal, topical, parenteral, etc. Nanoparticles (NPs) are small (10–1000 nm) and, when combined with these therapeutic entities, are responsible for giving new properties, such as a high surface, volume area and better bioavailability. Regarding these nanocarriers, solid nanoparticles, such as porous silica and silicon, are known as promising candidates that can overcome the above problems and produce effects in a controllable and sustainable manner. Porous silica and silicon nanoparticles are widely used as a delivery agent because they possess favourable chemical properties, thermal stability, and biocompatibility. Their unique porous structure facilitates effective loading of drugs and their subsequent controlled release of the target site. Hereby, we invite all researchers to contribute to this Special Issue, which will collect both research and review articles devoted to various aspects of solid nanoparticles in drug delivery.

Guest Editor

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