

Special Issue

Mesoporous Silica-Based Materials in Drug Delivery and Controlled Release

Message from the Guest Editor

Porous silica materials and composites on their bases attract increasing interest as carriers in drug delivery systems due to their unique properties, such as high specific surface area, controllable porosity, easy-to-modify surface, low cytotoxicity, etc. These properties allow the loading of significant amounts of drugs and can solve problems related to low solubility by modifying drug release, resulting in bioavailability enhancement and greater treatment effectiveness. This Special Issue is focused on the design and development of novel drug delivery systems on the basis of porous silica or porous silica-containing materials, as well as the characterisation of their physico-chemical and biopharmaceutical properties. Studies on the synthesis of new porous silica materials as carriers in delivery systems, investigations of carrier–drug molecule interactions, and evaluations of the drug release rate and biocompatibility of the obtained systems are welcome to contribute to this SI.

Guest Editor

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Editor-in-Chief

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