Special Issue

Silica Nanoparticles for Delivery of Therapeutics and Imaging Agents

Message from the Guest Editor

Silica nanoparticles have been widely used in biomedical applications due to the easy synthesis of different sizes and morphology, their biocompatibility, and easy surface functionalization. Such nanoparticles have shown tremendous potential as adsorbents and carriers of drugs and other therapeutic molecules. Their nanosize allows the particles to easily permeate tumour tissues via passive mechanisms, but the efficacy can be improved by active targeting. The pore sizes and morphology can be tailored to the application, and a wide array of molecules carried to the site of interest. This Special Issue has the aim of highlighting current progress in the use of silica nanoparticles for the delivery of therapeutic molecules, and imaging agents. Suggested topics include: new synthesis methods for unique morphologies, new approaches in targeted delivery, nanoparticle design for improved uptake in target cells, and modifications of the silica with doping agents or dyes.

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