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Drug Delivery Systems Based on Mesoporous Silica

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Message from the Guest Editors

Controlled drug delivery systems are an ideal strategy for human healthcare in which the drug is released at a constant rate and its concentration in the organism remains steady. The research on drug delivery systems based on mesoporous silica has grown enormously over the last two decades.

This Special Issue of *Materials* is focused on recent developments in and the application of different types of mesoporous silica for drug delivery. Suggested topics include the influence of surface modification on drug adsorption/release properties, targeted drug delivery systems, and “smart” systems—drug release or transport of nanoparticles caused by the influence of internal or external stimuli, such as pH, a magnetic field, photo-switchable systems driven by IR, UV, or VIS radiation, redox potential, and enzymes. Studies of computational methods and drug adsorption/release kinetics analyzed using different models (zero/first-order/Higuchi/Korsmeyer–Peppas/Hixson–Crowell/the three-parameter model) are also desirable.

We welcome any kind of manuscript dealing with drug delivery systems based on mesoporous silica.





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Editor-in-Chief

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Message from the Editor-in-Chief

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