



Nanoparticle-Hydrogel Composites for Biomedical Applications: Volume II

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Embedding inorganic, organic, or biological nanoparticles in hydrogels allows one to prepare hybrid materials which are capable of responding to a variety of stimuli from the surrounding environment. Nanoparticles can be simply entrapped in hydrogels, prepared inside the hydrogels, or functionalized to work as a crosslinker of polymer chains. Incorporation of nanoparticles into hydrogels modifies the swelling degree and the physicochemical and mechanical properties of the polymer network. In the case of magnetic nanoparticles, the application of static/alternating magnetic fields offers the possibility of addressing and remotely modulating drug release from hydrogels.

Dr. Andrea Atrei

Guest Editor





gels



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Message from the Editor-in-Chief

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