

Special Issue

Design of Mesoporous Materials for Biomedical Application

Message from the Guest Editors

In the last decade, considerable attention has been addressed toward the use of a wide range of mesoporous materials for the development of advanced devices for biomedical applications. Their excellent intrinsic properties make them excellent candidates for storing several therapeutic molecules and releasing them to the target on demand after proper stimuli. Based on these considerations, these multifunctional nanocarriers are ideal candidates for the design of advanced scaffolds and smart drug delivery systems to treat cancer and compromised tissue healing or for theragnostic applications. The final aim of this Special Issue is to provide an overview of the most recent advances and new approaches for the design, functionalization, and strategies to boost the clinical translation of mesoporous materials for advanced tissue engineering, cancer therapy, and theragnostics. Among them, this issue is devoted to focusing attention on their uses as multifunctional delivery systems to target and deliver therapeutic agents, including small molecular drugs, peptides, proteins, nucleic acids, as well as imaging agents and sensing molecules, directly to the pathological site.

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