



# Biomedical Applications of Mesoporous Ceramics: Drug Delivery, Smart Materials and Bone Tissue Engineering

*María Vallet-Regí, Miguel Manzano García, Montserrat Colilla*

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## **Biomedical Applications of Mesoporous Ceramics: Drug Delivery, Smart Materials and Bone Tissue Engineering** María Vallet-Regí, Miguel Manzano García, Montserrat Colilla

Developments in mesoporous ceramics in drug delivery, nanomedicine, and bone tissue regeneration have opened promising developments in biomedical research, many applicable in the clinic in the near future. Due to the ability to fine-tune the physicochemical properties of these materials, the field has experienced an impressive burst in the number of publications. As controlled drug delivery systems are one of the most promising applications for human health care, it is now necessary to set the milestones of this technology, from the very basic to the most advanced.

Biomedical Applications of Mesoporous Ceramics: Drug Delivery, Smart Materials and Bone Tissue Engineering is a comprehensive overview of silica-based mesoporous materials with special attention given to their use in drug delivery systems, sophisticated stimuli-responsive materials, and bone tissue engineering. The book provides a comprehensive overview of the basic aspects of the properties of mesoporous materials, with a focus on textural properties such as surface and porosity. Starting from this consolidated knowledge, it then addresses various aspects of more sophisticated stimuli-responsive materials and bone tissue engineering, detailing the research and development of these biomedical applications.

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