

Special Issue

Ordered Mesoporous Materials

Message from the Guest Editors

The synthesis of ordered mesoporous silica-based materials (OMMs) involved the cooperative action between a cationic surfactant (as a templating agent) and a silica source. The interest in OMMs is due to their amazing features (high surface area and pore volume, uniform pore size, easy functionalization) which allowed their use for several applications. They range from industrial, to analytical, environmental, and bio-chemistry, as well as to nanomedicine. Through varying synthesis conditions, the particle size of OMMs can be tailored to obtaining either micro- or nanoparticles, as well as thin films. Besides pure silica, other oxides (e.g. titania) and organosilica OMMs have also been obtained. This Special Issue will collect research papers, reviews, and communication on all the possible aspects of OMMs (synthesis, characterization, and functionalization) to their various applications for (bio-) catalysis, (bio-) adsorption, drug delivery, sensing, pollutant removal. Moreover, the study of interactions with biomacromolecules proteins/enzymes/antibodies and biopolymers and/or other nanomaterials will be of interest.

Guest Editors

Prof. Dr. Andrea Salis

Dipartimento di Scienze Chimiche e Geologiche, Università di Cagliari, Cittadella Universitaria, S.S. 554 bivio Sestu, 09042 Monserrato, CA, Italy

Prof. Dr. María Vallet-Regí

Departamento de Química en Ciencias Farmacéuticas, Facultad de Farmacia, Universidad Complutense de Madrid, Instituto de Investigación Sanitaria, Hospital 12 de Octubre i+12, Plaza Ramón y Cajal s/n, 28040 Madrid, Spain

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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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