

Special Issue

Mesoporous Silica-Based Materials for Sustainable Technologies

Message from the Guest Editors

Mesoporous silica has received enormous attention due to its structural and economic features and advantages, namely high surface area, remarkable chemical, thermal, and mechanical stabilities, optical transparency, as well as uniformity of pore distribution. Mesoporous silica-based materials have been directly used through specific tailoring of desired properties, such as functionality, pore size and shape, or as reliable solid supports in the preparation of novel composite materials. Over the past decade, mesoporous silica-based materials have emerged as enabling materials for a wide variety of green and sustainable technologies, including catalysis, energy conversion, gas storage and separation, wastewater treatment, pollutant sensing, etc. This Special Issue focuses on developing green, sustainable mesoporous silica-based materials preparation, characterization, and their applications. The contribution of original research manuscripts or relevant critical review articles in this scientific field is both welcome and important for the current issue.

Dr. Luis Cunha-Silva

Guest Editors

Dr. Carlos M. Granadeiro

Dr. Salete Balula

Dr. Luís Cunha Silva

Deadline for manuscript submissions

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Molecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of
Münster, Corrensstrasse 48, D-48149 Münster, Germany

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