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Mesoporous Silica and Organosilica Materials: Synthesis, Properties and Applications

Guest Editor:

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Deadline for manuscript submissions:
closed (30 June 2021)

Message from the Guest Editor

Dear Colleagues,

Hybrid organic–inorganic nanostructured materials have emerged as a promising class of materials in a wide range of applications due to their unique properties resulting from incorporating organic groups into inorganic frameworks. Among such materials, periodic mesoporous organosilicas (PMOs) with well-defined pore structures and high organic content have received considerable attention since their discovery in 1999. These new hybrid materials are usually synthesized via the sol–gel process using a soft template and one or more hydrolyzable bridged-silane monomers. Their structures, morphologies, pore size, surface area, and chemical and physical properties can be tuned through a variety of synthetic parameters and conditions, such as structure of the organosilane monomers, pH, type of template agents, temperature, reaction times, and organic additives.

This Special Issue of Applied Sciences will present recent developments in research on mesoporous silica and PMO materials, including their synthesis and applications.

Prof. Dr. Raed Abu-Reziq
Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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