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Mesoporous Silica-Based Materials for Sustainable Technologies

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Message from the Guest Editors

Dear Colleagues,

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.

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Guest Editors



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Special Issue



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Message from the Editor-in-Chief

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