Special Issue

Sol-Gel Derived Nanostructured Materials with Innovative Characteristics and Diversified Applications, 2nd Edition

Message from the Guest Editors

The sol–gel method is a widely used approach for the synthesis of innovative nanomaterials, including nanoparticles and aerogels, among others. Based on the production of a homogeneous sol from precursors and its conversion into a wet gel, which is finally dried under different conditions, this method provides a convenient and industrial path for the synthesis of high-quality nanostructures. These nanomaterials can be tailored to fit a wide range of applications, such as optical, electronic, energy, surface engineering, biosensors, and pharmaceutical as well as separation technologies. Most recently, particular concern was devoted to the synthesis of these nanomaterials through sustainable routes, including recycled and less-toxic sources. For this Special Issue, we are seeking manuscripts that cover a wide range of topics in the field of sol–gel-derived nanomaterials; submissions on "green" technologies and life-cycle assessment approaches are encouraged. Your contributions may include original research papers or critical reviews based on experimental or theoretical modeling and simulation approaches.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th 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.

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