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Engineering of Aerogels and Their Applications

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Message from the Guest Editors

Dear Colleagues,

Aerogels are a unique class of light-weight nanoporous materials of interest in advanced applications for different fields. Interest on aerogels prompted the design and development of materials from different sources (inorganic, organic, hybrid), formats (monoliths, beads, powder), chemical functionalities (hydrophilic, hydrophobic) and sizes (insulation boards, micron-sized particles). This material's research pace was aligned with the engineering of innovative and viable processes and unit operations to tackle the production of the ever-growing demand of aerogel quantities and varieties. Recently, the research on aerogels has particularly grown to target environmental and biomedical applications with the prospect of novel aerogel sources (biopolymers, biomass), innovative composite materials containing aerogels and environmentally friendly processing approaches.

This Special Issue aims to assemble notable recent contributions on the engineering of aerogels in terms of sources, chemical functionalities and morphology as well as process design and optimization with a clear application-oriented focus.

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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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