



Engineering of Aerogels and Their Applications

Guest Editors:

Dr. Carlos A. García-González

Department of Pharmacology,
Pharmacy and Pharmaceutical
Technology, University of
Santiago de Compostela, 15782
Santiago de Compostela, Spain

Dr. Luísa Durães

Chemical Process Engineering
and Forest Products Research
Centre, Department of Chemical
Engineering, University of
Coimbra, 3000-370 Coimbra,
Portugal

Deadline for manuscript
submissions:

closed (30 June 2019)

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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

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

Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Reaxys](#), [CaPlus / SciFinder](#), [MarinLit](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (*Chemistry (miscellaneous)*)

Contact Us

Molecules Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/molecules
molecules@mdpi.com
[X@Molecules_MDPI](https://twitter.com/X@Molecules_MDPI)