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Advances in Structural and Mechanical Properties and Characterization of Aerogels

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Deadline for manuscript
submissions:

closed (30 December 2021)

Message from the Guest Editors

Dear Colleagues,

The properties of aerogels are controlled by their solid content, high porosity, pore size distribution, pore volume and the corresponding inner surfaces of the open porous network structure. As a result, materials with low densities, good thermal and acoustic insulation behavior, high sorption capacities, tunable electrical conductivities and last but not least highly variable mechanical properties, are obtained.

In this Special Issue, we invite authors to contribute their current research results with respect to the structure and mechanical properties of aerogels. The mechanical properties of aerogels can be changed not only by process control during chemical synthesis and drying, but also by combining them with different materials. Submissions pertaining to the following topics on aerogels will be considered.

- Novel approaches to improve the structure and mechanical properties of aerogels or aerogel composites;
- Characterization of the structural, fractal or mechanical properties;
- Modeling studies describing their structure–property relationships;
- Review articles on the abovementioned topics.



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Guest Editors

Special Issue



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Message from the Editor-in-Chief

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