



## Aerogels and Their Functionalization for Practical Applications

Guest Editor:

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### Message from the Guest Editor

Dear colleagues,

Aerogels are unique materials possessing a wonderful combination of properties including high specific surface area and high porosity, low density and low thermal conductivity. Their use as thermal and acoustic insulators, high capacity sorbents, and supercapacitors is widespread.

The huge specific surface area of aerogels implies very high surface energy due to a high proportion of surface atoms and molecules. This feature makes it possible for the chemical modification of surface functional groups to provide aerogels with additional functionality and to prepare novel construction and functional materials.

The ultimate goal of this issue is to get a set of papers concentrated on aerogels functionalization for modern practical applications. The possible physical and chemical modifications are virtually countless, and so are the types of aerogels which could be designed in this way.

Prof. Dr. Vladimir K. Ivanov

*Guest Editor*





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## Message from the Editor-in-Chief

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