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Recent Advances in the Synthesis and Application of Bio-Based Foams and Aerogels

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Bio-based materials made from natural polymers represent renewable and environmentally friendly alternatives to widely used polymeric materials made from non-renewable fossil resources. Using bio-based materials may improve the mechanical and physical properties of composite foams and increase their biodegradability, and will promote the conversion of agricultural waste into useful resources.

Bio-aerogels are new materials based on renewable resources. Due to their outstanding properties, they have great potential for a widespread applications, including the areas typical for classic aerogels.

This present Special Issue considers recent research on advanced biopolymer foams and aerogels. Of special interest is research focused on new formulations and technologies that aim to produce improved cellular materials, as well as those related to the analysis of foaming mechanisms that use different conventional and non-conventional experimental techniques.

It is my pleasure to invite you to submit a manuscript to this Special Issue. Full papers, communications, and reviews are all welcome.

Prof. Dr. Krzysztof Strzelec

Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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