Special Issue

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

Message from the Guest Editor

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.

Guest Editor

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Deadline for manuscript submissions

closed (20 January 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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