



Biofoams: Science and Applications of Bio-Based Cellular and Porous Materials

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Addresses a Growing Need for the Development of Cellular and Porous Materials in Industry

Building blocks used by nature are motivating researchers to create bio-inspired cellular structures that can be used in the development of products for the plastic, food, and biomedical industry. Representing a unified effort by international experts, **Biofoams: Science and Applications of Bio-Based Cellular and Porous Materials** highlights the latest research and development of biofoams and porous systems, and specifically examines the aspects related to the formation of gas bubbles in drink and food. The book offers a detailed analysis of bio-polymers and foaming technologies, biodegradable and sustainable foams, biomedical foams, food foams, and bio-inspired foams.

Explores the Generation of New Materials with Wide-Ranging Technological Applicability

This book introduces the science, technologies, and applications related to the use of biopolymers and biomaterials in the development of porous structures. It presents topics that include bio-based polymers for the development of biodegradable and sustainable polymeric foams, foams in food, foams in biomedical applications, biohybrids, and bio-inspired cellular and porous systems. It also includes recent studies on the design of polymer-based composites and hybrid scaffolds, weighs in on the challenges related to the production of porous polymers, and presents relevant examples of cellular architecture present in nature.

In addition, this book:

- Focuses on materials compatible with natural tissues
- Discusses the engineering of bio-inspired scaffolds with the ability to mimic living tissue
- Reveals how to use renewable resources to develop more sustainable lightweight materials
- Illustrates the state of the art of porous scaffold and process techniques

A book dedicated to material science, **Biofoams: Science and Applications of Bio-Based Cellular and Porous Materials** focuses on food technology, polymers and composites, biomedical, and chemical engineering, and examines how the principles used in the creation of cellular structures can be applied in modern industry.

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Vanessa Palacios:

Typically the book Biofoams: Science and Applications of Bio-Based Cellular and Porous Materials has a lot info on it. So when you make sure to read this book you can get a lot of help. The book was published by the very famous author. This articles author makes some research before write this book. That book very easy to read you may get the point easily after looking over this book.

Stuart Perez:

Biofoams: Science and Applications of Bio-Based Cellular and Porous Materials can be one of your nice books that are good idea. Most of us recommend that straight away because this book has good vocabulary that may increase your knowledge in words, easy to understand, bit entertaining but nevertheless delivering the information. The author giving his/her effort to place every word into satisfaction arrangement in writing Biofoams: Science and Applications of Bio-Based Cellular and Porous Materials although doesn't forget the main stage, giving the reader the hottest along with based confirm resource facts that maybe you can be one of it. This great information can easily drawn you into brand-new stage of crucial imagining.

Mark Hoffman:

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