



materials



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Development and Characterization of Bio-Based Insulation Materials

Guest Editors:

Prof. Dr. Florence Collet

Laboratoire de Génie Civil et
Génie Mécanique, Université de
Rennes, 35065 Rennes, France

Dr. Sylvie Prétot

Laboratoire de Génie Civil et
Génie Mécanique, Université de
Rennes, 35065 Rennes, France

Dr. Eshrar Latif

Welsh School of Architecture,
Cardiff University, Cardiff CF10
3NB, UK

Deadline for manuscript
submissions:

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Message from the Guest Editors

Dear Colleagues,

Reduction in the environmental impact of construction requires the development of building materials that reduce the energy needs and the carbon footprint of buildings. Bio-based insulation building materials, made from bio-based fibers or aggregates, meet these two objectives simultaneously. They can also contribute to indoor comfort. Such materials can be used in new buildings or for retrofit. However, these materials still represent a very small part of the construction market. There is a need to summarize and increase our knowledge of their properties, their durability, and their application in buildings.

We invite you to submit new or state-of-the-art research on the development and characterization of bio-based insulating building materials, with a particular focus on hygrothermal and acoustic properties and life cycle assessment. Studies can investigate physical characteristics at material scale, physical behavior at wall or building scale, or ambient conditions (comfort, air quality). Experimental and numerical studies are welcome, including the development of experimental methods or numerical codes.



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Special issue



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Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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