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Exploring Innovative Sustainable Building Materials for a Greener Future

Guest Editors:

Dr. Paulo Santos

Department of Civil Engineering,
University of Coimbra, 3030 - 788
Coimbra, Portugal

Dr. Daniel Ferrández Vega

Departamento de Tecnología de
la Edificación, Escuela Técnica
Superior de Edificación,
Universidad Politécnica de
Madrid, 28040 Madrid, Spain

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Message from the Guest Editors

Dear Colleagues,

As the world grapples with the urgent need for sustainable development, the construction industry has a vital role to play in shaping a greener future. The demand for innovative sustainable building materials is steadily increasing, driven by the imperative to reduce environmental impact, enhance resource efficiency, and mitigate climate change.

This Special Issue (SI) intends to collect and expand on research in the field of sustainable building materials, delving into their characteristics, advantages, and potential applications. The SI will include papers on the following research topics:

- Reused, recovered, and recycled materials
- Bio-based materials
- Advanced composites
- Environmental performance of building materials, considering their embodied energy, carbon footprint, recyclability
- Possible detrimental effects of conventional construction materials on the environment
- Technical attributes of sustainable building materials, including their strength, durability, acoustic and thermal properties, suitability for different applications
- Economic aspects of sustainable building materials
- Circular materials for a circular economy and built environment



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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

Tel: +41 61 683 77 34
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