Special Issue

Enhanced Building Energy Performance through Materials Innovation

Message from the Guest Editors

The purpose of this Special Issue is to concentrate on the most relevant enhancements proposed by new approaches to building materials, their processing, and complete lifecycle re-design. The expected scope includes all relevant approaches, namely concentrating on:

- Phase-changing materials (PCMs) and their integration in building envelopes;
- Cellular materials and their functional development;
- Natural renewable materials engineered for long durability and a negative carbon impact;
- Hybrid materials design for shape and functional enhancement;
- Multilayered solutions for enhanced structural materials;
- Bio-inspired materials innovation;
- 3D-printed building solutions for multifunctional performance;
- Sandwich materials as integrated solutions;
- Thin-films and inkjet-printed design of efunctionalities on advanced materials processing to building materials;
- Passive design of building subsystems;
- Modular construction and circularity;
- Building materials reuse and reconditioning—from waste to value;
- Assessment of materials' impact on building certification and carbon reduction.

Guest Editors

Dr. Javier Orozco-Messana

Institute for Materials Technology, Universitat Politecnica de Valencia, 46022 Valencia, Spain

Dr. Martijn Rietbergen

Smart Sustainable Cities, Utrecht University of Applied Sciences, 3584 CH Utrecht, The Netherlands

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closed (31 December 2023)



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G OC5, Canada

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