Special Issue

Advances on Utilization of Recycled and Sustainable Materials in Energy-Efficient Buildings and Infrastructural Systems

Message from the Guest Editors

The sustainability and energy efficiency of different construction systems, made up of one or more recycled materials, can be assessed with life cycle assessment (LCA) studies and through calculating the embodied energy of each system to confirm its sustainability. Topics of interest for publication include, but are not limited to, the following:

- All aspects of the use of recycled materials in buildings and infrastructural systems;
- Life cycle assessment studies on recycled and new built systems;
- Manufacturing techniques for recycled building materials;
- Utilization of construction and demolition (C&D) materials in the production of sustainable building and infrastructural systems;
- Analytical and experimental evaluation of recycled building materials;
- Advanced modelling approaches of recycled building systems;
- Utilization of recycled tires, plastics, and wood in construction applications;
- Use of recycled materials in water- and thermal-proofing materials;
- Use of recycled materials in manufacturing light-weight construction materials;
- Health and safety aspects in the use of recycled materials (e.g., PFAS effects).

Guest Editors

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Energies

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Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/138033

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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