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Sustainable Materials and Technologies for Energy Efficient Buildings

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Message from the Guest Editors

Dear Colleagues,

The development of civilization necessitates the search for new materials that satisfy the growing needs of the construction industry in terms of their quality and quantity. Developing more durable materials also contributes to sustainability, enabling reduction of the high environmental impact of maintenance, repairs, and replacement of traditional materials used in buildings and civil engineering works. The use of greener and more eco-friendly manufacturing technologies has become an essential topic of research, allowing us to reduce waste production and energy consumption.

This Special Issue (SI) focus on the digital manufacturing and materials for 3D printing, recent advances in the field of sustainable, energy-saving, additively manufactured buildings and building components. The scope also covers low CO₂ binders, geopolymers, and alkali-activated materials, dismantlement, reuse and recycling of materials, new materials and their applications and performance testing, new materials for energy-efficient buildings, and their durability evaluation. We welcome both original research articles and review articles.



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Special Issue



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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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