Special Issue

Thermal Energy Storage in Building Integrated Thermal Systems

Message from the Guest Editors

In June 2018, the EU Parliament and Council enacted a new Recast of Energy Performance of Building Directive, the EPBD 2018/844, establishing more ambitious targets for the future. As stated by the EU Lex, it is necessary to focus on decarbonizing the EU building stock, and, in order to do this, long-term strategies of energy refurbishment and the transformation of the existing buildings into nearly zero-energy ones are needed. In this frame, thermal energy storage systems should have a primary role, both applied to building envelopes and to HVAC equipment. Thermal storage systems can improve the thermal inertia of the building shell, and they can also have application in active energy systems. In order to improve thermal and energy performances of such systems, research efforts have to be increased, by analyzing both the thermal behavior of the involved materials and the energy performance of the whole system. This Special Issue of *Energies* is entirely focused on Thermal Energy Storage in Building Integrated Thermal Systems, not limited but open to building itself, its energy systems and renewables at the building scale.

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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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