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Innovative Technologies for Buildings Energy Efficiency and NZEB Targets

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Message from the Guest Editors

The aim of this Special Issue is to collect papers focused on new research results regarding technologies for the energy efficiency of buildings at the single or cluster scale. For single buildings, particular attention is paid to research studies regarding novel passive envelope techniques and innovative materials (e.g. cool paints, low-e coating and skin, smart façades, phase change materials, etc.). The Special Issue will include papers on innovative HVAC systems and control; innovative ventilation strategies and equipment; novel thermal energy storage; and renewable energy applications. Regarding the last topic, there is special interest in innovative solar energy devices for residential, commercial, public, and industrial applications such as building integrated solar collectors, photovoltaic/thermal collectors, high temperature collectors, etc.. Concerning buildings' energy efficiency at the cluster scale, particular attention is paid to research papers regarding innovative district heating and cooling systems, as for example those including renewable energy sources, or district heating loops adopting heat pumps and low temperature working fluids.



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Special Issue



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Message from the Editor-in-Chief

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