



sustainability



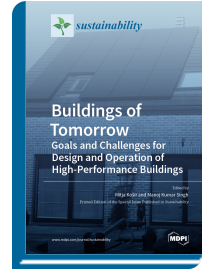
Special Issue Reprint

Buildings of Tomorrow: Goals and Challenges for Design and Operation of High-Performance Buildings

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This reprint aims to address the challenges modern-day buildings face in the context of high energy and resource consumption and climate change. One of the ways to address the issues is holistic design and operation of high-performance buildings in the area of energy efficiency, occupant health, and comfort. All this should be achieved through synergic interconnectedness between parameters such as the indoor-outdoor environment, sustainability, and resilience. Through different chapters, this reprint highlights the key areas, namely, the optimization of building design parameters, the impact of the use of modern-day phase-change materials, the adaptation of occupants and buildings to climate change, the mitigation of urban overheating by cool roofs, and reducing energy demand and CO₂ emissions.



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