Special Issue

Energy-Efficient Designs in Modern Building Construction

Message from the Guest Editors

We would like to invite you to contribute to our upcoming Special Issue entitled “Energy-Efficient Designs in Modern Building Construction”, which aims to present cutting-edge research and practical innovations related to the energy performance of buildings—both during construction and throughout their operational life. In response to the growing demand for sustainable solutions in the built environment and the increasing adoption of net-zero energy buildings, this Special Issue seeks original research articles, review papers, and case studies that address a range of topics. These include energy-efficient materials, smart technologies, passive design strategies, integrated renewable energy systems, intelligent energy management solutions, and policy frameworks that support low-carbon construction. We particularly welcome contributions that explore the integration of artificial intelligence across various stages of the building life cycle in order to enhance efficiency.
Special Issue
Link:https://www.mdpi.com/journal/buildings/special_issues/3B5UR2JYDX

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

Editor-in-Chief

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