Special Issue

Sustainable Lightscapes: Enhancing Health and Innovation in Green Building Environments

Message from the Guest Editors

In addition to enabling vision, light triggers biological effects that powerfully regulate human health, performance and well-being. As buildings prioritize decarbonization and occupant well-being, this Special Issue seeks cutting-edge research on the intersection of sustainable lighting design, human health, and technological innovation. We welcome studies on circadian rhythm-aligned lighting, energy-efficient smart systems, and light therapy-integrated architectures for healthcare, workplaces, and public spaces. Topics include daylight optimization, low-impact materials, AI-driven adaptive controls, and mitigating light pollution while enhancing mental/physical health. Contributions from interdisciplinary teams (architecture, neuroscience, environmental science) are also encouraged. Submissions should address lifecycle sustainability metrics, human-centric lighting design validation, or policy frameworks accelerating adoption. For more information, please click on the special issue link: https://www.mdpi.com/journal/buildings/special_issues/51K8707611

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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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