Special Issue

Advances in Sustainable Lighting for Health and Comfort in the Built Environment

Message from the Guest Editor

This Special Issue seeks to explore cutting-edge developments in lighting that promote human health and comfort while advancing environmental sustainability. We aim to gather interdisciplinary perspectives and research that span architectural design, lighting engineering, environmental psychology, and building science. We welcome original research articles, experimental studies, case studies, reviews, and theoretical contributions addressing innovations in both daylighting and electric lighting. Topics of interest include, but are not limited to, the following:

- Daylighting strategies and their physiological and psychological impacts.
- Right to light and policies.
- Human-centric and circadian lighting systems.
- Integrative design approaches combining daylight and electric lighting.
- Smart, adaptive, and responsive lighting technologies.
- Metrics and simulation tools for lighting quality and occupant well-being.
- Lighting interventions in healthcare, educational, and workplace environments.
- Energy-efficient lighting systems and sustainable building certification implications.
- Post-occupancy evaluations and user feedback on lighting conditions.

Guest Editor

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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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