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Lighting in Buildings—2nd Edition

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Deadline for manuscript submissions:
30 September 2024

Message from the Guest Editors

Dear Colleagues,

Lighting in the built environment has evolved since the rapid uptake of solid-state lighting (SSL) devices. However, improvements to the efficiency of individual luminaries have reached a plateau. Our growing understanding of the human visual and non-image forming effects of light has highlighted the importance of balancing occupants' needs and energy efficiency. Sensors and advanced controls now enable intelligent building lighting systems to meet these competing goals.

We invite original research (laboratory, field, and cross-sectional studies), theoretical and experimental studies, case studies, communications, and comprehensive review papers for possible publication. Relevant topics for this Special Issue include the following:

- Adaptive intelligent lighting systems;
- Human visual response to lighting;
- Human non-image forming responses to lighting;
- Modeling and evaluating energy efficiency and lighting application efficacy;
- Daylight in buildings;
- Lighting and color in virtual reality (VR) and augmented reality (AR) applications;
- Novel applications of SSL devices in buildings;
- Policy, building standards, and recommendations.

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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.

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