



Lighting in Buildings—2nd Edition

Guest Editors:

Dr. Dorukalp Durmus

Department of Architectural
Engineering, Pennsylvania State
University, University Park, PA,
USA

Dr. Wenye Hu

School of Architecture, Design
and Planning, The University of
Sydney, Sydney, Australia

Dr. Lambros T. Doulos

School of Applied Arts and
Sustainable Design, Lighting
Design Laboratory, Hellenic Open
University, 26335 Patra, Greece

Deadline for manuscript
submissions:

30 June 2026

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.

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.

For more information, please click on the special issue link:

https://www.mdpi.com/journal/buildings/special_issues/850FPN





Editor-in-Chief

Prof. Dr. David Arditi

Construction Engineering and Management Program,
Department of Civil,
Architectural, and Environmental
Engineering, Illinois Institute of
Technology, 3201 South
Dearborn Street, Chicago, IL
60616, USA

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within SCIE (Web of Science), Scopus, Ei Compendex, Inspec, and other databases.

Journal Rank: JCR - Q2 (Construction and Building Technology) / CiteScore - Q1 (Architecture)

Contact Us

Buildings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/buildings
buildings@mdpi.com
X@Buildings_MDPI