

Special Issue

Daylighting and Environmental Interactions in Building Design

Message from the Guest Editor

This Special Issue explores how daylight interacts with architectural form, materials, and environmental systems to shape the sustainable performance of buildings. It welcomes research that deepens our understanding of the role of daylight in creating visually comfortable, energy-efficient, and responsive environments. Its scope encompasses experimental and simulation-based studies on daylight distribution, adaptive and kinetic façades, solar control strategies, and integrated design methods that link daylight with the thermal and ventilation performance of buildings. Contributions are invited from architecture, environmental design, and building engineering, including both theoretical approaches and case studies. We particularly encourage interdisciplinary submissions that connect design intent with measurable ecological outcomes, bridging architectural creativity and environmental responsibility. By gathering these perspectives, this Special Issue will highlight daylight as a central agent influencing the environmental behaviour of buildings and a catalyst for innovative, human-centred, and environmentally responsible design strategies.

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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