

## Special Issue

# Nature-Based and Metabolic Strategies for Climate Risk Resilience in Urban and Building Design

### Message from the Guest Editors

Urban environments and building systems are increasingly exposed to climate-related risks, including extreme heat, flooding, and resource scarcity. Traditional design approaches often fall short in addressing these complex challenges, requiring innovative strategies that integrate ecological principles and systemic thinking. This Special Issue will explore how nature-based solutions and metabolic frameworks can enhance resilience and sustainability in the built environment.

We invite contributions that examine theoretical models, practical applications, and interdisciplinary methodologies for implementing these strategies. Topics of interest include **urban renaturalization, biodiversity integration, adaptive urban planning, regenerative building design, circular economy principles, and innovative technologies that support climate resilience**. By fostering dialogue among researchers, practitioners, and policymakers, this Special Issue aims to advance knowledge and inspire transformative solutions for sustainable urban futures. For more

details: [https://www.mdpi.com/journal/buildings/special\\_issues/7C5NON17L7](https://www.mdpi.com/journal/buildings/special_issues/7C5NON17L7)

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### Guest Editors

Dr. Carlos J. Rosa Jiménez

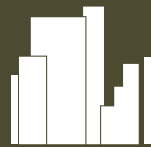
Dr. Daniel Navas Carrillo

Prof. Dr. Maria Jose Marquez-Ballesteros

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### Deadline for manuscript submissions

20 August 2026



## Buildings

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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.

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### Editor-in-Chief

Prof. Dr. David Arditi

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

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

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.1 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).