

## Special Issue

# Sustainable Built Environments and Cities: Innovations in Energy, Materials, and Control Systems

### Message from the Guest Editors

The built environment is a central contributor to global environmental challenges. As cities and buildings account for a significant share of energy use and emissions, the transition toward sustainable and environmentally intelligent design and operation is more urgent than ever. This Special Issue of *Environments* aims at bringing together cutting-edge research and interdisciplinary approaches that advance the sustainability of buildings and urban systems. We welcome contributions that address the following:

- Biosourced and low-carbon construction materials;
- Phase-change materials (PCM) for thermal regulation;
- Building-integrated photovoltaics (BIPV) and renewable energy systems;
- Energy management systems (EMSs) and model predictive control (MPC);
- Indoor air quality (IAQ), thermal comfort, and occupant well-being;
- Digital twins, building information modeling (BIM), and AI-based optimization and prediction;
- Life cycle assessment (LCA) and environmental performance metrics;
- Circular economy strategies in design and construction;
- Climate-resilient urban planning and passive design approaches;
- Simulation-based energy and environmental modeling.

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### Guest Editors

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**Deadline for manuscript submissions**



## Environments

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## About the Journal

### Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal *Environments*, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

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### Editor-in-Chief

Prof. Dr. Sergio Ulgiati

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#### High Visibility:

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#### Journal Rank:

JCR - Q2 (Environmental Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.2 days after submission; acceptance to publication is undertaken in 3.4 days (median values for papers published in this journal in the first half of 2025).