

## Special Issue

# Global and Local Climate Change: Building and Urban Mitigation Technologies Under Changing Climates

### Message from the Guest Editors

Climate change is driving extreme weather events, posing significant threats to urban resilience and the well-being of city dwellers. Moreover, as cities continue to expand and densify, local climate changes caused by the ambient urban heat island (UHI) effect can worsen these risks, increasing urban vulnerability. In this context, the built and urban environment plays a fundamental role in safeguarding both communities and cities against these escalating climate threats. This Special Issue welcomes both original research articles and review papers covering a broad range of research topics related to local climate change and mitigation strategies. Potential topics include, but are not limited to, green roofs, green walls, retroreflective materials, cool walls, cool roofs, cool pavements, evaporative strategies, urban NbS, UHI and/or building consumption assessment, and thermochromic materials.

### Guest Editors

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### Deadline for manuscript submissions

closed (30 April 2026)



## Climate

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## About the Journal

### Message from the Editor-in-Chief

*Climate* (ISSN 2225-1154) was established in 2013 to provide an open-access outlet for innovative research, review articles, new direction papers, and short communications relevant to all disciplines related to climate at all scales. The journal encourages papers ranging from climate change detection and attribution and Earth system modeling to ecosystem, hydrologic, and socioeconomic impacts and climate mitigation and adaptation measures. The influence of *Climate* is strong and growing (IF 3.2 in 2024, CiteScore 5.7 in 2024).

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### Editor-in-Chief

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#### High Visibility:

indexed within Scopus, ESCI (Web of Science), GEOBASE, GeoRef, AGRIS, and other databases.

#### Journal Rank:

JCR - Q2 (Meteorology and Atmospheric Sciences) /  
CiteScore - Q2 (Atmospheric Science)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 20.8 days after submission; acceptance to publication is undertaken in 3.8 days (median values for papers published in this journal in the second half of 2025).