Special Issue

Climate Resilience and Equity Through Nature-Based Solutions for Rainwater Management and Urban Heat Island Mitigation

Message from the Guest Editors

Climate change is causing higher temperatures, droughts, and extreme rainfall. Urban areas face amplified heat and flooding due to impervious surfaces and inadequate drainage, while rural areas suffer soil erosion and reduced agricultural productivity from unmitigated runoff.

Nature-based Solutions can reduce temperatures, enhance groundwater recharge, and manage runoff. These solutions also improve air quality, support biodiversity, and enhance social well-being. Green-Blue Infrastructure (GBI) effectively reduces surface temperatures, improves building energy performance, and lowers peak runoff rates. Embedding environmental justice in NbS planning ensures vulnerable communities receive proportional benefits.

The topics of this special issue in Climate include climate impact assessment, resilience planning, Nature-based Solutions (NbS), Urban Heat Islands (UHI), stormwater management, and environmental justice integration. And it also seeks studies assessing multi-dimensional outcomes of NbS, comparing approaches across geographies, and developing frameworks for equitable climate adaptation in urban and rural areas.

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Deadline for manuscript submissions

30 September 2026

Climate

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 5.7

mdpi.com/si/243089

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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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