

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 *Land* 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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Message from the Editor-in-Chief

Land is the only open access journal covering all aspects of land science, and it is a pioneering platform for publishing on land system science. Our editorial board is comprised of eminent scholars. We publish high quality research on societally relevant, emerging and innovative topics and results in land system research. It is now one of the top land journals with a significant Impact Factor, and has a goal to become the best journal in land in the coming years.

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