

Special Issue

Advances in Urban Hydrological Modeling and Stormwater Management for Hydrological Hazard Mitigation

Message from the Guest Editors

Urban hydrological modeling is essential for understanding and managing the complex interactions between urbanization, rainfall, and surface runoff. With increasing climate variability and intensified urban development, optimizing model accuracy and adaptability has become crucial for effective stormwater management. Recent developments in sensitivity analysis, optimization algorithms, and data-driven modeling have opened new pathways to improve the performance and applicability of urban hydrological models. At the same time, the adoption of nature-based solutions (NBS), low-impact development (LID), and green infrastructure has expanded the potential for sustainable and resilient urban water systems capable of reducing hydrological risks while enhancing ecosystem and community resilience.

This Special Issue is to collect original research and review papers that provide insights into optimizing urban hydrological modeling and advancing innovative stormwater management strategies.

Guest Editors

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Deadline for manuscript submissions

1 June 2026



Land

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Impact Factor 3.2
CiteScore 5.9



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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.

Editor-in-Chief

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