

Special Issue

Advances of Low Impact Development Practices in Urban Watershed

Message from the Guest Editors

In recent years, climate changes and urbanization have caused huge urban pluvial flood events in many countries, driving one to both develop and apply effective and innovative approaches for the design and management of urban stormwater systems. Gradual urbanization is provoking an increase in impervious surfaces and, consequently, of surface runoff and velocity and the reduction of concentration times of watersheds, both increasing soil erosion and worsening water quality as a consequence of intensive contamination. In this field, low-impact development (LID) practices for urban runoff control can be intended as an effective approach to both improve urban resilience against flooding risk and assure environmental interventions. This Special Issue welcomes research into new perspectives that provide pioneering advances in both experimental and modeling research on LIDs. Articles are welcome on different themes related to LID, such as decision support systems (DSS) for the optimal design of LIDs in urban subcatchments; case studies on the effectiveness of low-impact development strategies; the simulation of LID practices; and the calibration of parameters to model LID practices.

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In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST

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