



water

an Open Access Journal by MDPI



Urban Catchment: Rainfall–Runoff Issues and Responses

Guest Editor:

Dr. Rupak Aryal

School of Engineering, La Trobe University, Flora Hill Bendigo, Melbourne, VIC 3552, Australia

Deadline for manuscript submissions:

closed (10 March 2021)

Message from the Guest Editor

Rapid urbanisation across the globe in the last few decades has changed the rainfall–runoff response in many catchments. Along with population growth, numerous changes in the landscape and impervious ratio in urban areas have also occurred. The change in the landscape in many cities has had a tremendous impact on urban hydrology. This includes changes in rainfall–runoff balance and changes in physical, chemical and biological aspects of water quality. Besides this, urban flooding has become more frequent due to an increase in imperviousness and runoff peak flow. This Special Issue seeks to highlight studies on urban rainfall–runoff monitoring and modelling, the role of imperviousness in urban water quality, the adoption of water-sensitive urban designs to mitigate water quality problems, stormwater harvesting, analytical techniques to examine these linkages and water management, and water policy.



mdpi.com/si/32238

Special Issue



water



an Open Access Journal by MDPI

Editor-in-Chief

Dr. Jean-Luc PROBST

Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

Message from the Editor-in-Chief

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (Water Science and Technology)

Contact Us

Water Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/water
water@mdpi.com
[X@Water_MDPI](https://twitter.com/Water_MDPI)