

Special Issue

Sediment Transport and Morphological Processes at the Watershed Scale

Message from the Guest Editors

At a time where matters on water demand/scarcity, flood control, land degradation and sedimentation in streams and reservoirs are becoming first-line priorities for catchment managers and stakeholders, understanding hydrological processes and sediment dynamics at the watershed scale is very relevant. To better understand processes and drivers of such changes, a combination of innovative techniques and tools is required nowadays, integrating modelling, remote sensing, field measurements, and experimental methods. The goal of this Special Issue is to collect papers (original research articles and review papers) to give insights on sediment transport and morphological processes at the watershed scale, showing the potential of up-to-date methods in monitoring and modelling such phenomena. This Special Issue welcomes manuscripts that link the following themes:

- Watershed hydrology and sediment transport;
- State-of-the-art methods to monitor and model morphological changes at a large scale;
- Policies and management strategies.

Guest Editors

Dr. Michael Nones

Department of Hydrology and Hydrodynamics, Institute of Geophysics, Polish Academy of Sciences, 01-452 Warsaw, Poland

Dr. Chao Guo

Changjiang River Scientific Research Institute, Changjiang Water Resources Commission, Wuhan 430010, China

Deadline for manuscript submissions

closed (30 April 2025)



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Hydrology
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
hydrology@mdpi.com

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About the Journal

Message from the Editor-in-Chief

Hydrology is the study of the waters of the Earth. Hydrology has close ties with hydraulics, hydrogeology and the multiple sciences that study the atmosphere, the land surface, the soil and the subsoil, and ranges from complex problems of risk, forecasting and optimization of water resources to interactions with ecological, urban, social and economic systems. The purpose of *Hydrology* is then to provide a journal where research results and real-world problems can be presented and discussed in order to bridge the traditional gaps between the academic world and the professionals and decision makers. Therefore, *Hydrology*, invites authors to submit their original theoretical, field, experimental, and numerical studies on hydrology with strong emphasis on multidisciplinary approaches and interdisciplinary topics, which cross the typical boundaries of our science.

Editor-in-Chief

Prof. Dr. Ezio Todini

Italian Hydrological Society, Piazza di Porta San Donato 1, 40126
Bologna, Italy

Author Benefits

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(Oceanography)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.9 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).