

Hydrological and Hydrochemical Drivers of Solute Export from Watersheds

Guest Editors:

Dr. Maksym Gusyev

Institute Environmental
Radioactivity, Fukushima
University, Fukushima 960-1296,
Japan

Prof. Dr. Mark Zheleznyak

Institute Environmental
Radioactivity, Fukushima
University, Fukushima 960-1296,
Japan

Dr. Boris Faybishenko

Hydrogeology Department,
Energy Geosciences Division,
Earth and Environmental
Sciences Area, Lawrence
Berkeley National Laboratory,
University of California, Berkeley,
CA, USA

Deadline for manuscript
submissions:

closed (30 April 2024)

Message from the Guest Editors

Dear Colleagues,

This Special Issue of Water focuses on the interdisciplinary aspects of studies of solute export from watersheds. Solute export is the process of transporting soluble material from the land surface to aquatic environments, such as streams, rivers, lakes, reservoirs or the ocean. Soluble materials include dissolved chemicals, nutrients, radionuclides, trace metals and other chemical or microbial constituents, some of which may be toxic pollutants. The process of solute export is driven by surface and subsurface runoff or groundwater flow, and is dependent on the watershed chemical composition.

Tracer methods are useful for studying solute export processes, as they can be used to identify the sources of runoff and the interaction of runoff and groundwater at the catchment scale. Natural tritium migration research is an important example of a tracer method. Radionuclides accidentally released into the environment from nuclear facilities are also used as tracers that can interact with sediments. [...]

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/water/special_issues/8D7KYSW2AK



[mdpi.com/si/181604](https://www.mdpi.com/si/181604)

Special Issue



water



an Open Access Journal by MDPI

Editor-in-Chief

Dr. Jean-Luc PROBST

Laboratory of Functional Ecology
and Environment, Centre
National de la Recherche
Scientifique (CNRS), University of
Toulouse, Campus ENSAT,
Auzeville Tolosane, 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, St. Alban-Anlage 66
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)