



*water*

an Open Access Journal by MDPI



## Integrated Water Resource System Modeling to Support Sustainable Water Management

Guest Editors:

**Dr. Elmira Hassanzadeh**

**Dr. Monireh Faramarzi**

**Dr. Ilyas Masih**

**Dr. Ali Mirchi**

**Dr. Marcio Giacomoni**

**Dr. Rebecca Teasley**

Deadline for manuscript  
submissions:

**closed (30 September 2021)**

### Message from the Guest Editors

Dear Colleagues,

Traditional water resource systems modeling has mainly focused on one or few aspects of water resource systems without considering the interactions among system components such as the impacts of water quality on quantity and vice versa, groundwater and surface water interactions, as well as trade-offs between and within human and environmental needs. Considering the pressures on water resources due to the combined effects of population and socio-economic growth, land use and land cover changes, as well as heightened climate variability and change, ignoring the interactions among water resource system components can lead to inadequate representations of system vulnerabilities. This Special Issue of *Water* invites innovative scientific contributions for integrated modeling approaches to represent the feedback processes within and between natural and anthropogenic components of water availability and water demand to support proposition of sustainable management solutions.

*Guest Editors*



[mdpi.com/si/16985](https://mdpi.com/si/16985)

# 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](http://www.mdpi.com)

[mdpi.com/journal/water](http://mdpi.com/journal/water)  
[water@mdpi.com](mailto:water@mdpi.com)  
[X@Water\\_MDPI](#)