



Sustainable Management of Aquifers in Semi-Arid Tropics

Guest Editor:

Dr. Jean Christophe Maréchal

brgm, Montpellier, France

jc.marechal@brgm.fr

Deadline for manuscript
submissions:

closed (20 January 2020)

Message from the Guest Editor

Semi-arid Tropics areas suffer from increasing surface water scarcity due to population growth and economic activity development. Therefore, groundwater has become an increasingly exploited resource for agriculture irrigation and drinking water supply. A consequence of this is an unbalanced situation between natural recharge and water abstraction, inducing water table depletion. Climate change will impact these tropical areas in various ways, increasing average temperature and changing rainfall patterns. Cost-effective groundwater management solutions are necessary in order to reduce the adverse impacts of these long term trends.

Contributions are expected on the following topics:

- Evaluation of natural recharge in semi-arid areas
- Characterization of groundwater flow in fractured aquifers
- Estimation of groundwater reserves in heterogeneous aquifers
- Managed aquifer recharge cost-benefit analysis
- Climate change impact assessment on groundwater
- Groundwater abstraction regulation
- Groundwater numerical modeling





water

IMPACT
FACTOR
2.544

an Open Access Journal by MDPI

Editor-in-Chief

Dr. Jean-Luc PROBST

ECOLAB, 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 by the [Science Citation Index Expanded](#) (Web of Science), [Ei Compendex](#) and [other databases](#).

CiteScore (2019 Scopus data): **3.0**, which equals rank 82/217 (Q2) in 'Water Science and Technology', rank 88/219 (Q2) in 'Aquatic Science' and rank 147/679 (Q1) in 'Geography, Planning and Development'.

Contact Us

Water
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

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