



water

an Open Access Journal by MDPI



Advances in Groundwater Flow and Solute Transport: Pushing the Hidden Boundary

Guest Editors:

Prof. Dr. Hongbin Zhan

Department of Geology and
Geophysics, Texas A&M
University, USA

Dr. Quanrong Wang

Laboratory of Basin Hydrology
and Wetland Eco-restoration,
and School of Environmental
Studies, China University of
Geosciences, Wuhan, 430074,
China

Dr. Zhang Wen

School of Environmental Studies,
China University of Geosciences,
Wuhan, 430074, China

Deadline for manuscript
submissions:

closed (31 July 2017)

Message from the Guest Editors

Dear Colleagues,

Study of groundwater flow and solute transport has been advanced into new territories which are beyond conventional theories, such as Darcy's law and Fick's law. The studied media change from permeable porous and fractured ones to much less permeable ones, such as clay and shale. The studied pore sizes also change from millimetres to micro-meters or even nano-meters.

The objective of this Special Issue is to report advances in groundwater flow and solute transport that push the knowledge boundary into new territories which include flow and transport in sloping aquifer/hillslopes, coupled unsaturated and saturated flow, coupled aquifer-vertical/horizontal/slant well flow, interaction of aquifer with connected and disconnected rivers, non-Darcian flow, anomalous transport beyond the Fickian scheme, flow and transport in extremely small pore spaces such as shale and tight sandstones.

Contributions focusing on innovative experimental, numerical, and analytical methods for understanding unconventional problems are encouraged.

Dr. Hongbin Zhan
Dr. Zhang Wen
Dr. Quanrong Wang
Guest Editors



mdpi.com/si/8716

Special Issue



water



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 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)