

Special Issue

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

Message from the Guest Editors

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.

Guest Editors

Prof. Dr. Hongbin Zhan
Dr. Quanrong Wang
Dr. Zhang Wen

Deadline for manuscript submissions

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

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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.

Editor-in-Chief

Dr. Jean-Luc PROBST

Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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