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

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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
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Guest Editors



mdpi.com/si/8716

Special Issue



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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.

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Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (Water Science and Technology)

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