Special Issue

Modelling Contaminant Transport and Natural Groundwater Quality

Message from the Guest Editors

The last decades have also provided new methods for characterising subsurface properties and heterogeneity. Hence, subsurface heterogeneity can more easily be implemented in standard groundwater modelling software, that together with parameter estimation tools provide more realistic pictures of transport in groundwater systems.

Despite technical advancements in groundwater flow modelling capabilities, the complexity of bio-geochemical reactions often leads to a simplification of flow to steady state situation. However transient boundary conditions, combined with highly heterogeneous subsurface may be of paramount importance to solute transport and the pattern of contaminant transport, reactions, storage and the final composition of the water released at the discharge zone.

This special issue invites examples of groundwater models applied to real contaminant situations.

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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

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