

Special Issue

Salinization of Coastal Aquifer Systems

Message from the Guest Editors

The Special Issue aims to publish papers that describe the state-of-the-art of groundwater salinization in coastal aquifers due to natural processes and anthropogenic activities. To understand nutrients and salinity behavior within coastal aquifers, both hydrodynamics and the biogeochemical processes must be known. Depending on the level of nutrient contamination of the aquifer, major changes in ionic strength, dissolved organic matter content, and shifts in pH may lead to changes in speciation of nutrients and trace elements. Particular emphasis will be given to paper employing geochemical and geophysical data, numerical modelling and their conjunctive use to monitor, assess and quantify relevant processes in coastal aquifer systems. This Special Issue aims to cover: Monitoring and assessing groundwater salinization processes using combined geochemical and geophysical techniques in large watershed or small scale field sites to distinguish between actual saltwater intrusion from autonomous salinization. Variable density transport modelling of solutes in variably saturated media, spacing from simple “sharp interface” models to complex reactive transport modelling.

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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

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