



an Open Access Journal by MDPI

# **Salinization of Coastal Aquifer Systems**

Guest Editors:

### Dr. Nicolò Colombani

Department of Materials, Environmental Sciences and Urban Planning SIMAU, Università degli Studi di Ferrara, 44121 Ferrara, Italy

#### Dr. Micòl Mastrocicco

Department of Environmental, Biological and Pharmaceutical Sciences and Technologies, University of Campania "Luigi Vanvitelli", 81100 Caserta, Italy

Deadline for manuscript submissions: closed (20 August 2018)

### 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.









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