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Groundwater Contamination and Remediation

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Deadline for manuscript submissions:
closed (20 June 2018)

Message from the Guest Editors

Contaminants can have natural sources (e.g., arsenic or salinity) or anthropogenic sources (e.g., industrial chemicals, pesticides, or sewage effluent). Remediation activities include passive methods (e.g., monitored natural attenuation), ex-situ methods (e.g., pump-and-treat), or in-situ methods (e.g., bioremediation or chemical oxidation).

The aim of this Special Issue is to present new research contributions in groundwater contamination and remediation. This topic includes studies that elucidate critical processes controlling contaminant sources, transport, and fate in the subsurface environment, methods to identify the concentration and extent of contaminant plumes, as well as novel approaches to predict and enhance the performance of remediation techniques. We encourage contributions on natural and anthropogenic contaminants, as well as emerging contaminants, such as manufactured nanoparticles or hydraulic fracturing fluids. The breadth of cutting-edge research addressing these topics is substantial, so this Special Issue will not be able to include studies specifically focused on evaluating the human health impacts of contaminants (i.e., epidemiological studies).

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Editor-in-Chief

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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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