Special Issue

Subsurface Multiphase Flow and Contamination Remediation

Message from the Guest Editors

The accidental release of hazardous hydrophobic organic chemicals including light (L) and dense (D) non-aqueous phase liquids (NAPLs, such as petroleum hydrocarbons and chlorinated solvents respectively) into the subsurface is a significant environmental problem. The varied physical and chemical dynamics in the subsurface create complex multiphase, multicomponent, and multiscale issues when addressing subsurface NAPL contamination.

The aim of this Special Issue is to encourage the submission of works focused on various aspects of multiphase multicomponent flow, biotic and abiotic reactions, and multi-phase remediation of NAPLs. We consider theoretical, computational and experimental papers addressing multiphase dynamics and measurement techniques at various scales (pore to Darcy and field scale). Papers addressing natural source zone depletion (NSZD) and the longevity of chemicals in different phases are also encouraged. Site characterization and case studies are considered only if they discuss novel observations and techniques. Papers on single-phase contamination transport and remediation will not be given a priority.

Guest Editors

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Deadline for manuscript submissions

closed (20 May 2020)

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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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