Special Issue

Effects of Diagenetic Alterations on Hydrocarbon Reservoirs and Water Aquifers

Message from the Guest Editor

Reservoir quality and heterogeneity in carbonate and siliciclastic hydrocarbon reservoirs and groundwater aquifers are constrained by diagenetic alterations. Diagenesis, which has a variable but overall important impact on reservoir-quality evolution, is controlled by several inter-related parameters. Diagenesis impacts reservoir quality as follows: destruction by mechanical compaction and extensive cementation; preservation by prevention of mechanical and chemical compaction; or generation by dissolution of labile framework grains and intergranular cements. For this Special Issue, we encourage submissions by geoscientists who are: dealing with hydrocarbon reservoirs and groundwater aquifers and engaged in deciphering the interplay between mineralogical and chemical changes in carbonates and siliciclastic sediments and diagenetic processes, fluid flow, tectonics, mineral reactions at variable scales, and environments from a variety of sedimentary basins. Numerical modeling of diagenetic reactions are essential to understand the pathways of these reactions in different diagenetic environments and, reservoir quality evolutions.

Guest Editor

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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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