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Effects of Diagenetic Alterations on Hydrocarbon Reservoirs and Water Aquifers

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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.



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Special Issue



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Message from the Editor-in-Chief

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