Special Issue

Fluid Dynamics Modeling in Porous Media

Message from the Guest Editors

Modeling fluid flows through fractured and/or deformable porous media remains an interesting but challenging topic in the geo-energy field. Success in geo-energy resources extraction, energy storage, CO2 geosequestration, and understanding ore-forming processes relies strongly upon the accurate modeling of single-/multi-phase fluid flow through porous media. The rapid advancement of physics-driven and data-driven approaches provides us with a rare opportunity to simulate and comprehend essential interplay between fluid flow, heat transfer, stress perturbation, chemical reaction, and pore/permeability evolution. The research in fluid dynamics modeling provides high support in the mitigation of greenhouse gas emissions and the efficient development and utilization of geo-energy resources. [...]

For further reading, please follow the link to the Special Issue Website at:
https://www.mdpi.com/journal/water/special_issues/1HK51FY07Q

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Deadline for manuscript submissions

closed (25 February 2024)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/131416

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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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