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Flow and Transport in Porous Media

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Message from the Collection Editor

Dear Colleagues,

Flow and transport in porous media are of great significance for basic scientific research as well as cutting-edge technical applications. Many fundamental and practical aspects of flow and transport processes, which are crucial in various energy and environmental applications, are not well understood. Moreover, the physics involved during the flow and transport in tight formations, nanomaterials, new emerging contaminants, and new remediation technologies require, probably, newer insight into the way we model porous media problems. Therefore, an in-depth understanding of the physical principle and fluid transport mechanism in porous media is of great importance for the energy sector. Over the past few decades, research has made significant breakthroughs and contributions to understanding the fundamentals/challenges of fluid flow in porous media.

Topics of this Collection include but are not limited to: multiphase fluid transport in porous media, computational fluid mechanics, novel experimental analysis and numerical modeling, multiscale and multiphysical modeling, and related technical applications.



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Topical Collection



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Message from the Editor-in-Chief

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