

Special Issue

Mathematical Models of Multiphase Flows in Porous Media

Message from the Guest Editor

The importance of the mathematical modeling of multiphase flows in porous media is quite obvious, since the obtained results of the theoretical study significantly reduce the amount of required experimental and field data. In addition, an adequate mathematical model allows one to represent real situations and, therefore, make predictions of the behavior of the studied systems, which is important when working with real applications. This Special Issue is mainly devoted to new studies related to the mathematical modeling of processes in energy and ecology. Studies may include research on new efficient numerical methods for the implementation of mathematical models of multiphase flows in porous media. Studying the main features of mathematical models that provide a consistent description of the considered processes is also very relevant for this Special Issue. The purpose of this Special Issue is to provide the scientific community with powerful tools for a wide range of applications. We hope to bring together reputable and young scientists actively working in the field of mathematical modeling of multiphase flows in porous media.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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