



energies



an Open Access Journal by MDPI

Advances in Simulation of Fluid Flow Dynamics in Porous and Fractured Media

Guest Editors:

Prof. Dr. Zhenhua Chai

School of Mathematics and Statistics, Huazhong University of Science and Technology, Wuhan, China

Prof. Dr. Jianchao Cai

College of Geosciences, China University of Petroleum, Beijing 102249, China

Prof. Dr. Moran Wang

Department of Engineering Mechanics, School of Aerospace, Tsinghua University, Beijing 100084, China

Deadline for manuscript submissions:
closed (31 March 2022)

Message from the Guest Editors

Fluid flow dynamics in porous and fractured media play a significant role in many fields, such as CO₂ sequestration, enhanced oil recovery and fuel cells, to name but a few. With the development of computer science and numerical techniques, the numerical simulation, as an important approach, has received increasing attention in the study of the fluid flows in porous and fractured media. However, due to the complexity of the pore structure of porous media, the transport process is very complicated. To explore the transport mechanism of fluid flows in porous and fractured media, the development of more advanced numerical methods is desirable, and the performance of numerical simulations is necessary to understand the complex transport process. This Special Issue aims to cover recent advances in fluid flow simulations in porous and fractured media.

We invite you to submit original research articles, case studies, and review papers to address the most significant challenges in the simulation of fluid flow dynamics in porous and fractured media. Submissions on, but are not limited to, the topics listed below are welcome.



mdpi.com/si/81345

Special Issue



energies



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compindex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: CiteScore - Q1 (Control and Optimization)

Contact Us

Energies Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/energies
energies@mdpi.com
[X@energies_mdpi](https://twitter.com/energies_mdpi)