

CALL FOR PAPERS

The dynamics of fluids in geomaterials has long been recognized as a critical issue for sustainably extracting natural resources and effectively predicting geological hazards. Current challenges across many disciplines of science and engineering, including geomechanics, geophysics, and geoenergy, have resulted in an increasing abundance of valuable research in this field. Ongoing efforts have a similar scientific basis, fluid dynamics in geomaterials, upon which cutting-edge research has been growing for applications in different disciplines. However, an explicit integration of research is missing in response to interdisciplinary challenges, such as injection-induced seismicity, radioactive waste disposal, and carbon dioxide sequestration. To place the pertinent and timely needs in the exciting field, the journal of Geofluids will be publishing a special issue on fluid dynamics in geomaterials. This special issue aims to collect the latest and most relevant research that can enhance communication between research communities and promote the development of the common basis through multidisciplinary efforts.

We invite authors from academia and industry to submit high-quality research articles and review articles. The original, significant, and unpublished contributions shall address the continuing efforts to improve the state-of-the-art of fluid dynamics in geomaterials associated with the complex geoenvironment, to explore the characteristics of fluid conductivity of geomaterials over temporal and spatial scales, and to develop experimental and numerical approaches in modeling permeability evolution in geomaterials.

Potential topics include but are not limited to the following:

- ▶ Advanced review of fluid dynamics in geomaterials
- ▶ Multiphysics modelling of liquid and gas motion in geological formations
- ▶ Complex structural and permeability evolution in porous media
- ▶ Multiphase and multicomponent fluid flow in geomaterials
- ▶ Multispectral remote sensing mapping for fluid seepage
- ▶ Probabilistic analysis of fluid flow in soils and rocks
- ▶ Clinical studies and assessment methods for subsurface flows

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/geofluids/fdg/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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