

Special Issue

Advances in Experimental and Theoretical Studies of Fluid Flow and Solute Transport in Porous Media

Message from the Guest Editors

Fluid-saturated porous media are present in a variety of natural systems. Their performance is influenced and controlled by fluid flow and solute transport. Examples of natural porous media and their corresponding processes are multiphase flow in hydrocarbon reservoirs, geological storage of CO₂, and contamination transport in aquifers. Many physical and chemical processes (including fluid flow, diffusion, swelling, and hydraulic fracturing) happen in porous media. These processes can be observed, studied, and modelled at a wide range of scales (from nanoscale to microscale or from laboratory scale to field scale). Understanding the transport phenomena in porous media, their experimental studies, and their theoretical modelling at different scales, as well as considering the uncertainties due to heterogeneities, are the aim of this Special Issue. Therefore, the focus here is on the advances in experimental and theoretical techniques to study fluid flow and solute transport in porous media.

Guest Editors

Dr. Morteza Dejam

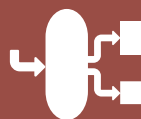
Department of Petroleum Engineering, College of Engineering and Applied Science, University of Wyoming, 1000 E. University Avenue, Laramie, WY 82071-2000, USA

Dr. Lamia Goual

Department of Petroleum Engineering, College of Engineering and Applied Science, University of Wyoming, 1000 E. University Avenue, Laramie, WY 82071-2000, USA

Deadline for manuscript submissions

closed (31 December 2019)



Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5



mdpi.com/si/23982

Processes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
processes@mdpi.com

[mdpi.com/journal/
processes](https://mdpi.com/journal/processes)





Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5



[mdpi.com/journal/
processes](https://mdpi.com/journal/processes)



About the Journal

Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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 Compendex, Inspec, AGRIS, and other databases.

Journal Rank:

CiteScore - Q2 (Chemical Engineering (miscellaneous))