



Transport Processes in Porous Material and Porous Media: Latest Developments and New Approaches

Guest Editors:

**Prof. Dr. Antonio Gilson
Barbosa de Lima**

Department of Mechanical
Engineering, Federal University of
Campina Grande, Campina
Grande 58429-900, PB, Brazil

**Dr. João Quesado Quesado
Delgado**

CONSTRUCT, Department of Civil
Engineering, Faculty of
Engineering, University of Porto,
4200-465 Porto, Portugal

Deadline for manuscript
submissions:

closed (15 January 2025)

Message from the Guest Editors

Transport processes in porous media and porous materials are frequently present in different fields (chemistry, physics, engineering, and medical sciences), depending on the nature/structure of the materials and potential characteristics for industrial applications (filtration, osmosis, drying, wetting, absorption, desorption, chemical reaction, etc.). Transport processes can occur in, but are not limited to, water treatment; energy storage and demand; and food, textiles, composite, ceramic, and pharmaceutical materials processing. In transport processes, many physical and chemical phenomena are involved, such as the heat and mass transfer, fluid flow, and sometimes dimensions variations, color and structure rigidity, degradation, aging, and related phenomena. Therefore, it is necessary to understand the factors that affect the transport phenomena involving porous media and porous materials.

This Special Issue titled “Transport Processes in Porous Material and Porous Media: Latest Developments and New Approaches” invites recent theoretical and experimental studies related to heat and mass transfer and fluid flow at different industrial and technological processes.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

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

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.

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))

Contact Us

Processes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/processes
processes@mdpi.com
[X@Processes_MDPI](https://twitter.com/Processes_MDPI)