

Special Issue

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

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.

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