



Heat and Mass Transfer in Porous Polymers

Guest Editor:

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Message from the Guest Editor

Porous polymers have wide applications in many different fields, including textile fabric, fiber reinforced composite, fuel cells, filtration, thermal insulation, paper products, and tissue scaffold. The transport phenomena in porous polymers are complex processes. Once the microstructures of porous polymers are determined, transport properties, such as permeability, diffusion coefficient, and thermal conductivity, may be determined by numerical and/or analytical fractal techniques. This Special Issue calls for the submission of high-quality research papers with an emphasis on both fundamental research and applications. Topics include, but are not limited to, the following: Novel methods in modeling heat and mass transfer through porous polymers;

Non-Darcy and/or nonlinear flow in porous polymers;

Characterizations of transport properties of porous polymers;

Reconstruction of polymer morphology;

Multi-scale and multi-physics theories in porous polymers;

Advances in applications of polymers, such as in medical facilities for anti-COVID-19.





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Message from the Editor-in-Chief

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