



Transport Processes of Polymers through Nanometric Pore Membranes

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Message from the Guest Editors

The transport of polymers through membranes is a complicated case of study, physically, chemically, and mathematically speaking. When membrane pores have nanometric dimensions, this process becomes difficult to manage, both phenomenologically and as a philosophy of the applied computational model. We now ask whether the passage of polymers through nanopores occurs naturally or is stimulated, with the forces acting on them being considered, allowing the advancement of polymers.

We invite research focusing on the problems of synthesis, modification, characterization, and modeling of nanometer-size solid-state channels and pores as membrane constituents of either inert or biological nature. Another interesting topic is the strong coupling of the structure and transport in biological channels and polyelectrolyte-modified synthetic nanopores. In short, the structure dictates transport and transport affects structure.





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