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Recent Research on Porous Membranes

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Deadline for manuscript submissions:
closed (30 April 2022)

Message from the Guest Editor

Originally, researchers spoke of a membrane as a "sieve," and the idea of a sieve is even more likely when it comes to porous membranes. It is easy to imagine porous membranes as a sieve that acts as a barrier for some substances and lets others pass, but the process develops inside them. Membranes are not simple films with different pore sizes. The properties of the material constituting the membrane contribute significantly to the success of the separation and, in any case, if the pores represent the "passage point", it is necessary to evaluate the driving force that promotes it and the "path" through which it occurs. The pores are not simple holes; they are paths, and for this reason they can be more or less linear, more or less regular, more or less tortuous, more or less uphill and more or less smooth. The structures of the pores and their distribution and geometry constitute a further chapter of membrane science, which is why this Special Issue will focus on synthesis, properties and applications of porous membranes.

- membrane
- polymer
- characterization
- morphology
- membrane operation
- porous membranes

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Message from the Editor-in-Chief

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