Special Issue

Nanofibrous Membrane

Message from the Guest Editor

Nanofibrous membranes are characterized by a very high surface-to-volume ratio and high porosity with three-dimensionally interconnected microporous structures. Nanofibrous membranes can be prepared to utilize various technologies such as bicomponent extrusion, electrospinning, melt blowing, phase separation, centrifugal spinning, drawing, self-assembly, and template synthesis. The unique features of these membranes make them a strong and excellent candidate for several progressive uses in areas such as superior performance filtration, composite materials, battery separators, electrochemical sensing, and biomedical applications. The use of nanofibrous membranes for biomedical applications has attracted a great deal of attention in the past several years. The aim of this Special Issue is to fabricate and characterize engineered nanofibrous membranes and to evaluate the biological functions of membranes for various biomedical applications. Topics include various fabrication methods, unique characterization, polymer and ceramic functional materials, biomedical applications such as tissue regeneration, drug delivery, etc.

Guest Editor

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