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Electrospun Nanofibrous Membrane for Environmental Applications

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Message from the Guest Editors

Electrospinning is a popular technique that is widely used in a variety of fields to fabricate nanofibers due to its versatility, scalability, low cost, and easy use. The resultant electrospun nanofibrous membranes offer several attractive features, including high surface area and porosity, intrinsic rough texture, controllable pore size/thickness, and interconnectivity. These outstanding properties make the electrospun nanofibrous membrane a versatile and promising material for environmental applications, such as desalination, oil/water separation, heavy metal adsorption, and photocatalysis. Over the past few years, we have witnessed a surge in the design and engineering of nanofibrous membranes and structures to enhance their selectivity, permeability, wettability, and stability. These major breakthroughs have led the way to greatly improved process efficiency, reduced treatment cost and energy consumption, and many new exciting possibilities in environmental applications.

Keywords

- Electrospinning
- Nanofibrous membrane
- Water treatment
- Environmental application



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Message from the Editor-in-Chief

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