



Advances in Applications and Sustainability of Electrospinning

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Message from the Guest Editors

Electrospinning is a feasible processing technique to fabricate nano-scale polymer fibers that construct non-woven fabrics with high surface areas, porosity, and mechanical flexibility. It is highly desirable to develop the applications of electrospinning, expanding its advantages in customizing versatile properties and functionalities to meet different requirements. This also contributes to the scalable application of electrospinning in reality.

On the other hand, there is an urgent need to “revise” traditional polymer materials for better sustainability. For electrospinning, the current status is that petrochemical or non-biodegradable polymers (e.g., polyacrylonitrile (PAN)) and toxic or environmentally hazardous organic solvents (e.g., chloroform and dimethylformamide (DMF)) are commonly involved. However, applying natural polymers or eco-friendly processing systems faces the challenge of processability in practice, which requires innovative improvement of the spinning process (e.g., core-shell(CS) electrospinning).

Here, we invite you to contribute to this Special Issue of *Polymers*.





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