Special Issue

Advances in Electrospun Nanofibers for Skin Regeneration

Message from the Guest Editor

Electrospinning is one of the most promising biofabrication techniques for skin regeneration due to its versatility. It allows the use of various polymers and biomolecules and enables the combination of different materials through multiple processing approaches. Additionally, electrospun scaffolds effectively mimic the morphology of the skin's extracellular matrix (ECM), including random fiber deposition, fiber diameter, and inter-fiber spacing. Moreover, electrospun wound dressings have demonstrated exceptional properties, such as promoting hemostasis, absorbing exudates, ensuring permeability, conforming to wound contours, and reducing scar formation. However, despite these advantages, electrospinning presents three key limitations: 1.Its inherently two-dimensional structure, which restricts its application in full-thickness wounds. 2. Limited biological cues. 3. Poor replication of transepithelial potential. This Special Issue aims to provide a platform for academic exchange among researchers working on advanced structures to overcome these challenges. As , we invite you to submit original research or review articles on this topic.

Guest Editor

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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