

عنوان مقاله:

Exploring the Intricacies of Electrospinning Parameters for Nanofiber Synthesis : Processes and Variables

محل انتشار:

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خلاصه مقاله:

In this review paper, the versatile technique of electrospinning as a prominent method for fabricating nanofibers is discussed. The review delves into the fundamental principles and instrumentation of electrospinning, elucidating the key contributing parameters that govern the process. Electrospinning has proven to be a remarkably versatile approach, allowing for the direct fabrication of nanofibers from diverse materials such as metals, ceramics, polymers, and composites. Additionally, the paper covers post-spinning processes that further enhance the range of producible nanofibers. A comprehensive overview is provided for different types of electrospun nanofibers and various influencing parameters. This offers valuable insights into the state-of-the-art advancements and applications of electrospinning technology in nanofiber fabrication.

کلمات کلیدی:

Nanofibers, Electrospinning, Optimization, Polymer Composites

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