Journal of Nanomedicine & Nanotechnology
ISSN: 2157-7439
OPEN ACCESS Freely available online
Editorial

Electrospun Nanomaterials: Preparation and Application

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EDITORIAL

Electro spinning could be a facile technology for the fabrication of nanostructured materials. With the numerous resolution properties and electro spun parameters, a totally different nanostructure is achieved for specific purpose. Up to now, an outsized quantity of polymers has been electro spun for various potential applications together with medicine tissue scaffolds, medicine delivery, and semiconductor nanowire synthesis. to place forward the event of this method and therefore the applications of electro spun nanomaterial's, variety of necessary problems are addressed like the fabrication and applications of electro spun nanofibers, advances in electro spun purposeful nanofibers, and electro spun nano porous materials.

One of the papers of this special issue describes the fabrication of NSAID (DS) loaded Eudragit L100 nanofibers by a changed concentrically electro spinning for colon-targeted sustained unleash, that helps to avoid the impeding drawback of spinneret in electro spinning. Another paper presents a stimulating plan to use PCL nanofiber containing marine seaweeds-extracellular compound substance for neural tissue repair. Another paper is regarding the technology of orderly printing of micro droplets by means that of electro hydrodynamic print (EHDP) with electrical energy, which might accelerate the appliance of inkjet printing within the field of micro-/Nano system production.

One of the papers addresses the introduction of CNTs in aligned electro spun polycaprolactone/gelatin Nano fibrous matrices because the growth environments of physiologist cells for peripheral nerve repair. The results of diameters, alignment, and therefore the content of CNTs within the nanofibers on cell behaviours are mentioned. Another paper describes direct write on orderly micro-/Nano fibrous structure by electro hydrodynamic system on insulate substrate, that is a stimulating plan to promote the appliance of EDW technology on the versatile physics. Another paper simulates a unique electro spinning methodology, crater-like electro spinning, by two-phase machine fluid dynamics for a deep understanding of two-phase flow and micro fluid jets production in electro spinning method. Another paper presents tunable structure of electro spun regenerated silk fibroin mats by hardening in vapour for the improved mechanical properties, that is contributed to the extension of post treatment of electro spun matrix.

One of the papers proposes victimisation 2 opposite emitting conductor electro spinning setups to urge Naprosyn (NAP)/ cellulose acetate hybrid nanofibers. The distribution and unleash behaviour of the medicine within the nanofibers ar hooked in to the conductor polarity. Another paper illustrates the fabrication of ultrafine carbon fibers with a nanoporous structure by the guide methodology supported the electro spun of oxide nanoparticles (NPs) embedded in PVA nanofibers, thermal hardening, chemical vapour deposition, and alkali treatment, that provides a sign of fabricating inorganic nanofibers by electro spinning chemical compound nanofibers. Another paper addresses the result of surfactants on the diameter and morphology of electro spun nanofibers, that shows United States of America a replacement route to extend the uniformity of electro spun nanofibers and thereby the economic applications.

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Received: September 07, 2021; **Accepted**: September 13, 2021; **Published:** September 17, 2021

Citation: Phelia J (2021) Electrospun Nanomaterials: Preparation and Application. J Nanomed Nanotech. 12: 579.

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