

Special Issue

Polymeric Electrospun Nanofibers: Applications in Drug Delivery and Tissue Engineering

Message from the Guest Editor

Electrospinning (solution or melt) is a fabrication technique that has been widely researched within the scientific field and is immediately useful for the creation of scaffolds. Electrospun nanofibers offer advantages for a wide range of applications in a variety of fields, including biomedicine and biotechnology. There are a number of different applications that can be explored in drug delivery and tissue engineering fields relating to the combination of synthetic and natural polymers, and integration with various active pharmaceutical ingredients. An important advantage of electrospun fibers over many other types of polymeric fibers or polymeric nanoparticles is their high surface over volume ratio and very high and tuneable porosity, which generate a large and easily accessible surface. Despite their great potential, there is more research still to be done before electrospun formulations can be taken forward into the clinic.

Guest Editor

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