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Advances of Electrospun Nanofibers, Nanocomposites and Microparticles

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Message from the Guest Editor

Dear Colleagues,

Electrostatic techniques (electrospinning and electrohydrodynamic spraying - EHD) are one of the most effective methods of micro- and nanomaterial production. They have comparably very high throughput, enabling the construction of materials of different types of polymers. Fragile biomolecules, drugs, or even living cells, can be electrospun or electrospray. As micro- and nanofibers can mimic the natural environment of the living cells, they can be used in many biological and medical applications. These include tissue engineering, construction of medical devices, internal and external wound dressings. Both electrostatic techniques can be applied to construct drug delivery systems and artificial tissues. Nanocomposites are also very valuable materials for biomedical applications.

This Special Issue aims to provide and highlight current research progresses of electrostatic techniques – electrospinning and electrohydrodynamic spraying and nanocomposites applied to produce materials of biological and medical importance.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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