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

Prof. Dr. Dimitrios A. Lamprou
School of Pharmacy, Queen's University Belfast, Belfast BT7 1NN, UK

Deadline for manuscript submissions

closed (31 March 2020)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/15263

Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

mdpi.com/journal/materials

Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/journal/materials

About the Journal

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)

MDPI