Special Issue

Electrospun Nanofibers in Healthcare: Structural and Biological Properties

Message from the Guest Editors

Electrospinning has the unique ability to produce mats of sub-micrometric fibers that resemble the extracellular matrix of human tissues. These fibers may be functionalized with small molecules, growth factors, antimicrobial agents, or even cells. Therefore, potential applications of electrospun nanofibers are manifold, with special emphasis in healthcare. This Special Issue of *Materials* will collect original research articles or comprehensive reviews related to the development of electrospun fiber mats for healthcare applications, covering new electrospinning assemblies, the processing of new materials, structural design, functionalization, the encapsulation and delivery of bioactive molecules, properties, applications, in vitro studies, and in vivo studies. It is our pleasure to invite you to submit a manuscript to this Special Issue and contribute to the advances in this field.

Guest Editors

Prof. Dr. Célia Henriques

Physics Department and Institute of Nanostructures, Nanomodelling and Nanofabrication, Cenimat/i3N, Faculty of Science and Technology, Universidade Nova de Lisboa, Campus de Caparica, 2829-516 Caparica, Portugal

Prof. Dr. Jorge Carvalho Silva

Physics Department and Institute of Nanostructures, Nanomodelling and Nanofabrication, Cenimat/i3N, Faculty of Science and Technology, Universidade Nova de Lisboa, Campus de Caparica, 2829-516 Caparica, Portugal

Deadline for manuscript submissions

closed (30 November 2021)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/49278

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

MDPI

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)