Special Issue

Recent Advances in Electrospinning of Polymeric Materials

Message from the Guest Editors

With the onset of nanotechnology, the process of electrospinning has proven to be a very cheap and efficient method for producing nano- and micro-fibrous materials. In spite of its relatively easy scheme, there exist many challenges with this technology, as a number of polymers, solvents, polymer solutions, and processing parameters make this process complex. The Special Issue serves as a platform to publish results concerning various branches of the electrospinning process, starting from the choice of polymeric material and solvent, the quality of electrospun nano- and micro-fibrous materials and their morphologies, relations between the entry parameters and their potential mutual dependence on the quality of nano- and micro-fibers. Contributions related to the application in medicine or filtration are also welcome, as are manuscripts covering aspects related to the environment. Functionalization techniques of electrospun materials are a really interesting part electrospinning. These include the surface functionalization of nanofibers, co-axial or emulsion electrospinning, etc. Each technique has different advantages allowing the fabrication of novel nanofibrous materials.

Guest Editors

Prof. Dr. Petr Filip

Institute of Hydrodynamics, Czech Academy of Sciences, 166 12 Prague, Czech Republic

Dr. Daniela Lubasová

Institute for Nanomaterials, Advanced Technologies and Innovation, Technical University of Liberec, 461 17 Liberec, Czech Republic

Deadline for manuscript submissions

closed (30 June 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/146053

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)