materials

IMPACT FACTOR 3.4

Indexed in: PubMed

CITESCORE 5.2

an Open Access Journal by MDPI

Application of Magnetic Nanofibers in Analytical Chemistry

Guest Editor:

Prof. Francisco Javier Guzmán Bernardo
Department of Analytical Chemistry and Food Technology, University of Castilla-La Mancha, E-45071 Toledo, Spain

Deadline for manuscript submissions:
closed (21 September 2021)

Message from the Guest Editor

Nanofibers (NFs) have attracted widespread attention in fundamental research and technological applications because of their high aspect ratio, large specific surface area, and significant shape anisotropy. Doping NFs with magnetic nanoparticles resulting in magnetic nanofibers (MNFs) combines the advantages of both nanomaterials with synergistic effects.

The potential of MNFs in aAnalytical cChemistry can be exploited mainly in sample preparation, as sorbents in magnetic solid phase extraction, but also as pseudo-stationary phases in electrophoretic techniques and as contributors to enhance detection in electrochemical and optical (bio)sensors.

The scope of this Special Issue is to gather contributions involving the use of MNFs in the analytical process, and the integration of the different steps, based of MNFs, into on-line, automated and/or miniaturized analytical systems. Applications in the environmental, food, and biological fields are encouraged. Other applications will be considered as well

materials

IMPACT FACTOR 3.4 | Indexed in: PubMed | CITESCORE 5.2

an Open Access Journal by MDPI

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

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.

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 & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
𝕏@Materials_Mdpi