Special Issue

Application of Magnetic Nanofibers in Analytical Chemistry

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

Guest Editor

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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.

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