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Application of Magnetic Nanofibers in Analytical Chemistry

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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

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