Special Issue

Nanomaterials-Based Sample Pretreatment

Message from the Guest Editor

The sample pretreatment technique is a critical analytical method that plays an important role in the analysis of complex samples, such as environmental analysis, food safety analysis, and biological analysis. With the development of nanotechnology, the sample pretreatment method using nanoparticles as sorbent has received considerable attention in recent years. Nanomaterials, including various carbon materials (such as graphene and carbon nanotubes), metal-organic frameworks (MOFs), covalent organic frameworks (COFs), and other nanobased polymeric materials, or their composites used for extraction and preconcentration in sample pretreatment, are of interest in this Special Issue. Sample pretreatment techniques, such as solid-phase extraction (SPE), dispersive solidphase extraction (dSPE), magnetic solid-phase extraction (MSPE), solid-phase microextraction (SPME), and stir bar sorptive dispersive microextraction (SBSDME), using nanomaterials as sorbent, are also welcomed. Review articles on using nanomaterials as a sorbent in the sample pretreatment in complex matrices are also welcome.

Guest Editor

Prof. Dr. Minghua Lu

College of Chemistry and Chemical Engineering, Henan University, Kaifeng 475001, China

Deadline for manuscript submissions

closed (31 December 2022)



Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3 CiteScore 9.2 Indexed in PubMed



mdpi.com/si/92678

Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

mdpi.com/journal/nanomaterials





Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3 CiteScore 9.2 Indexed in PubMed



About the Journal

Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometerscale dimensions, which we call "nanomaterials". These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal-organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, Nanomaterials, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General Chemical Engineering)

