

Special Issue

Functional Magnetic Nanomaterials and Nanocomposites: Synthesis, Properties and Advanced Applications

Message from the Guest Editors

Functional magnetic nanomaterials and nanocomposites have attracted significant attention due to their unique physicochemical properties and broad spectrum of advanced technological applications. The ability to precisely tailor their size, morphology, surface chemistry, and magnetic behavior enables the development of materials with enhanced performance in diverse fields such as biomedicine, environmental remediation, catalysis, energy conversion and storage, sensing technologies, and information processing. This Special Issue aims to provide a comprehensive platform for the dissemination of cutting-edge research on the synthesis, characterization, theoretical modeling, and practical implementation of functional magnetic nanomaterials and nanocomposites. Contributions addressing structure–property relationships, novel fabrication techniques, hybrid and hierarchical architectures, and emerging applications are particularly encouraged. The Issue also welcomes studies focusing on sustainability, biocompatibility, and industrial translation of magnetic nanomaterials.

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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.

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