Special Issue

Advanced Design, Synthesis, and Application of Colloidal Suspensions of Magnetic Nanoparticles

Message from the Guest Editor

Colloidal suspensions of magnetic nanoparticles, more commonly known as ferrofluids, have gained much notoriety in recent years due to their myriad applications, including magnetic resonance imaging (MRI) contrast enhancement, magnetic cooling, magnetic damping, magnetic filtration, and magnetic fluid hyperthermia. In this Special Issue, we bring together a collection of works highlighting novel synthesis methodologies, innovative techniques for producing colloidal suspensions of magnetic nanoparticles, new materials, and unique applications of ferrofluids. Full papers, communications, and reviews are all welcome.

Guest Editor

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Deadline for manuscript submissions

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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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