

Special Issue

Ferrofluids - Electromagnetic Properties and Applications

Message from the Guest Editor

Ferrofluids, also known as magnetic fluids, were invented in the early 1960s by Steve Papell, engineer at the Lewis Research Center, to be used for rockets in the form of magnetic fuel, which can be magnetically directed from the storage tank to the engine in the absence of gravity. Since then, ferrofluids have been studied both for application purposes and for fundamental research. Because ferrofluids are relatively easy to obtain, with different carrier liquids, different surfactants, and different magnetic particles at different concentrations, they have also been a study material for understanding the electrical and magnetic properties of magnetic nanoparticle systems. This Special Issue aims to publish articles on both the theory and electromagnetic applications of ferrofluids and of composites or structures realized with ferrofluids.

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