Special Issue

Advances in Numerical Model and Methods for Magnetic Fluids

Message from the Guest Editors

In the last few decades, magnetic fluids have become an area of broad interest, since these are new materials that open possibilities for their use in different areas. It is essential to know their magnetic and thermal properties and their behavior in case of exposure to external magnetic fields and exposure to different ambient temperatures. We are searching for papers on original approaches based on modern numerical and optimization techniques used to develop magnetic fluids models that are as realistic as possible. Experimental support is desirable but not necessary. In addition, magnetic fluid models and their applications in engineering, medicine, etc., where the fusion of mathematics (numerical models) and computation (numerical methods) stimulate progress in magnetic fluid research, are also welcome. Practical applications that involve optimization methods adapted for use in the case of magnetic fluids to achieve better design results or characteristics are also welcome.

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Deadline for manuscript submissions

closed (30 November 2024)

MDPI

About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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