Special Issue

Entropy Analysis in Nanofluids and Porous Media

Message from the Guest Editors

Nanofluids as “smart” heat transfer fluids can be widely used in different engineering systems for heat transfer enhancement because of their high heat transfer properties. For a technical analysis of the modern engineering systems, it is possible to scrutinize the entropy generation within the system and to define conditions allowing for minimizing this characteristic. Such a combination of entropy generation minimization as an approach for modern nanofluids systems allows for solving various technical challenges. The use of porous media saturated with nanofluids has shown its effectiveness in improving heat transfer. It constitutes a promising method for the thermoregulation of assemblies, so research on these phenomena deserves to be deepened. This Special Issue is an opportunity for extending the research fields of nanofluids and entropy generation analysis, as well as porous media, in various branches of fundamental and practical research. It is a good chance to collect original studies on the considered topic from numerical and/or experimental approaches in order to present useful guidelines for future research.

Guest Editors

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Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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Editor-in-Chief

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