

Special Issue

Rheological Study of Nanofluids

Message from the Guest Editor

Nanofluids are suspensions of nano-metric-sized solid particles dispersed in liquid media. Although colloidal interactions determine the stability of these fluids against sedimentation, hydrodynamic forces are also decisive for the flow behavior of nanofluids. Science usually precedes effective engineering applications. This is especially applicable to nanofluids considering the broad interest, initiated at the beginning of the new century, to find useful applications. Some of which are related to solar energy, heat transfer, biomedicine, automotive, mass transfer, lubricants, or smart fluids. In most of these applications, the flow behavior of nanofluids should be well characterized. On the other hand, as nanofluids are non-Newtonian, showing shear-thinning, shear-thickening, or viscoplastic behavior depending on the shear forces they support, this task is clearly justified. The aim of this Special Issue is to provide a state of the art on the rheological behavior of nanofluids considering the possible correlations between rheological and relevant properties for applications of nanofluids.

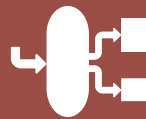
Guest Editor

Prof. Dr. Francisco J. Rubio-Hernández

Departamento de Física Aplicada II, Universidad de Málaga, Escuela de Ingenierías Industriales, C/ Doctor Ortiz Ramos s/n, 29071 Málaga, Spain

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Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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