Special Issue

Mesoscopic Thermodynamics and Dynamics

Message from the Guest Editors

We are pleased to invite you to submit comprehensive overviews, as well as original papers, on the general subject of mesoscopic and multiscale thermodynamics and dynamics. Theoretical investigations of complex systems arising, for instance, in nanotechnology and biology, as well as investigations of externally-driven macroscopic systems, cannot be confined to a single level of description. Thermodynamics in multiscale investigations arise in the analysis of the relationship between two levels that take into account different amounts of details. The aim of this Special Issue is to encourage researchers to present original and recent development in the foundations, geometrical and stochastic formulations, and applications of the multiscale non-equilibrium thermodynamics.

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Deadline for manuscript submissions

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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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