Special Issue

Non-equilibrium Thermodynamics

Message from the Guest Editors

This Special Issue aims to promote international exchange and to share the latest knowledge and developments in all fundamental aspects of non-equilibrium thermodynamics; this encompasses theoretical concepts, computational, statistical, multi-scale modelling methods and informatic theory of entropy applied to describing out-of-equilibrium processes in physics, chemistry, biology for engineering applications. Emphasis is placed on innovative approaches and advanced overviews to understand the time courses of dynamic and kinetic processes and their complex relationship with the non-equilibrium thermodynamics of matter in laboratory conditions. Of specific interest are the modelling methodologies in all scales from time-dependent first-principles thermodynamics of materials under extreme conditions to stochastic dynamics of complex fluids, soft matter, nano-bubble on surfaces, heat transfer and their links with experimental observations.

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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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Editor-in-Chief

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