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Statistical Physics of Soft Matter and Complex Systems

Guest Editors:

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Deadline for manuscript submissions:
closed (1 March 2021)

Message from the Guest Editors

Dear Colleagues,

Entropy is the central concept in equilibrium thermodynamics, but has remained far removed from processes that are far from equilibrium. Biological systems (living) as well as active (driven) systems have attracted considerable attention recently that now invites a closer examination of entropy in this context. More specifically, energy-consuming systems, those that have a net energy density flow, result in the emergence of internal work that leads to ordered structures that are compensated for by changes that are related to entropy or information. This Special Issue brings together a range of leading experts to examine the concept of entropy dealing with far-from-equilibrium systems in the context of biological and active soft matter.

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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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