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# Foundations and Ubiquity of Classical Thermodynamics

Collection Editor:

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## Message from the Collection Editor

Classical, phenomenological thermodynamics today has unjustifiably a dubious status. Some modern physicists regard classical thermodynamics as an obsolete relic. Often, mostly due to lack of comprehension, thermodynamics is considered as an engineering subject and thus not as the most fundamental science of energy and nature. Apart from the view that thermodynamics is obsolete, there is a widespread belief among scientists in thermodynamics' absolute authority.

This Topical Collection focuses on original reasoning and new research results in fundamentals and applications in thermodynamics. Original manuscripts with a focus on phenomenological fundamentals and applications, including critical up-to-date reviews, are solicited. We welcome submissions addressing novel issues, as well as those on more specific topics. It is hoped that this collection will inspire and motivate scientists and practitioners to revisit important and critical issues related to the Laws of Thermodynamics as the most fundamental laws of nature.

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## Editor-in-Chief

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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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