Special Issue

Special Applications of the Second Law of Thermodynamics: From a Cell to Society

Message from the Guest Editors

The main objective of this Special Issue on "Applications" of the Second Law of Thermodynamics: From a Cell to Society" is to showcase to the scientific world different applications of the concepts of entropy generation or destroyed exergy as a tool of diagnosis of different energy conversion systems, from pathologies to a rational use of energy in society. Irreversibilities are inherent to any process, and an increase in this physical quantity indicates a possible misfunctioning in biological systems and may be used as a tool even for diagnosing some illnesses. Also of interest is the demonstration of how society can properly use its natural resources. including methods to progress toward a more sustainable society. This Special Issue invites articles that explain the malfunctioning/better function of "aging systems", including small systems, the human body (sports, thermal comfort, hypothermia, hyperthermia), corporations, cities, sectors and society, and other thermodynamic systems.

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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.

Entropy is an online open access journal providing an advanced forum for the development and/or application of entropic and information-theoretic studies in a wide variety of applications. *Entropy* is inviting innovative and insightful contributions. Please consider *Entropy* as an exceptional home for your manuscript.

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