Special Issue

Frontiers of Thermodynamics: From Quantum to Life

Message from the Guest Editor

Thermodynamics has one leg in the micro- and another in the macro-realm. This duality underlies both its strength and still unresolved issues. In this special issue we explore these limits of small and large. How are entropy, work and heat manifested at the quantum level? How can living systems attain order, maintain complexity and process information under the Second Law? How is entropy related to quantum uncertainty and nonlocality? What insights can thermodynamics offer and gain from the growing disciple of quantum biology? It is time for an appropriate forum to discuss these frontiers and related others.

Guest Editor

Prof. Dr. Avshalom C. Elitzur
Institute for Quantum Studies, Chapman University, Orange, CA 92866, USA

Deadline for manuscript submissions

closed (30 September 2022)

Entropy

an Open Access Journal by MDPI

Impact Factor 2.0
CiteScore 5.2
Indexed in PubMed

mdpi.com/si/105859

Entropy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
entropy@mdpi.com

mdpi.com/journal/entropy

Entropy

an Open Access Journal by MDPI

Impact Factor 2.0
CiteScore 5.2
Indexed in PubMed

mdpi.com/journal/entropy

About the Journal

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.

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.

Editor-in-Chief

Prof. Dr. Kevin H. Knuth
Department of Physics, University at Albany, 1400 Washington Avenue, Albany, NY 12222, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, PubMed, PMC, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Physics, Multidisciplinary) / CiteScore - Q1 (Mathematical Physics)

MDPI