Special Issue

Gravitation, Thermodynamics, and Quantum Theory

Message from the Guest Editors

This Special Issue aims to advance understanding of this interplay by fostering cross-disciplinary dialogue and highlighting new conceptual and mathematical developments. We invite contributions investigating, but not limited to, gravitational and horizon thermodynamics, stochastic thermodynamics and fluctuation theorems in curved spacetime backgrounds, thermodynamics and information in quantum field theory, the use of Unruh–DeWitt detector models to probe thermality, analogue gravity, and quantum information aspects such as entanglement and decoherence in gravitational settings. We welcome original research articles that offer novel perspectives of the implications of quantum relativistic and gravitational effects on thermodynamic processes.

Guest Editors

Dr. Dimitris Moustos
School of Mathematics, Statistics, and Physics, Newcastle University, Newcastle upon Tyne NE1 7RU, UK
Dr. Charis Anastopoulos
Department of Physics, University of Patras, 26500 Patras, Greece

Deadline for manuscript submissions

31 December 2026

Entropy

an Open Access Journal by MDPI

Impact Factor 2.0
CiteScore 5.2
Indexed in PubMed

mdpi.com/si/279138

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