



Thermodynamics of Small Systems

Guest Editor:

Dr. Henni Ouerdane

Skolkovo Institute of Science and
Technology, 30 Bolshoi
Boulevard, bld. 1, Moscow
121205, Russia

Deadline for manuscript
submissions:

closed (16 April 2024)

Message from the Guest Editor

This Special Issue aims to offer articles covering a wide range of problems pertaining to the physics of small systems whose properties necessitate the use or the development of suitable thermodynamic approaches. It is anticipated that contributions will contain theoretical developments, but submission of manuscripts reporting basic experimental results pertinent to the Special Issue, as well as those discussing relevant emerging small-systems technologies, are particularly welcome.

- thermometry and calorimetry of small systems, including nuclear matter
- stochastic thermodynamics: MEMS, molecular motors, colloids, biomolecules
- open quantum systems
- fluctuation theorems
- quantum thermodynamics
- dissipation in small systems
- information processing in small systems
- complexity of small systems





entropy



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Kevin H. Knuth

Department of Physics, University
at Albany, 1400 Washington
Avenue, Albany, NY 12222, USA

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.

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)

Contact Us

Entropy Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/entropy
entropy@mdpi.com
[X@Entropy_MDPI](#)