Special Issue

Statistical Thermodynamics: From First Principles Computations to Macroscopic Properties of Matter

Message from the Guest Editor

Statistical thermodynamics is the bridge from the microscopic to the macroscopic worlds. Together with its conceptual framework, it provides the tools for the computation of all the thermodynamic properties of matter in whatever state, temperature, and pressure, as averages of properties evaluated from first principles at the atomic and molecular level, or at the scale of a unit cell of a crystal. The focus of this Special Issue is on (i) applications to specific problems;

- (ii) development of models for effective computations;
- (iii) their possible implementations in computer programs.

Guest Editor

Prof. Dr. Mauro Prencipe

Department of Earth Sciences, University of Turin, 10125 Torino, Italy

Deadline for manuscript submissions

closed (20 March 2022)



an Open Access Journal by MDPI

Impact Factor 2.0 CiteScore 5.2 Indexed in PubMed



mdpi.com/si/73939

Entropy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34

mdpi.com/journal/ entropy

entropy@mdpi.com





an Open Access Journal by MDPI

Impact Factor 2.0 CiteScore 5.2 Indexed in PubMed



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)

