



Thermodynamics of Matter in Wide Range of Entropies

Guest Editor:

Dr. Konstantin V Khishchenko

1. Joint Institute for High Temperatures of the Russian Academy of Sciences, Izhorskaya 13 Bldg 2, Moscow 125412, Russia
2. Moscow Institute of Physics and Technology, National Research University, Institutskiy Pereulok 9, Dolgoprudny, Moscow Region 141701, Russia
3. Department of Computational Mechanics, South Ural State University, Lenin Avenue 76, Chelyabinsk 454080, Russia
4. Institute of Problems of Chemical Physics of the Russian Academy of Sciences, Academician Semenov Avenue 1, Chernogolovka, Moscow Region 142432, Russia

Deadline for manuscript submissions:

closed (30 September 2023)

Message from the Guest Editor

Dear Colleagues,

This issue is devoted to experimental and theoretical studies of the behavior of matter in a wide range of thermodynamic parameters (energy, pressure, temperature, volume, and entropy). Of interest are topics such as entropy in the equations of state of various substances, phase transitions and critical phenomena, the processes of establishing thermodynamic equilibrium in matter under intense pulsed influences, the thermodynamics of non-stationary processes in condensed matter and plasma under conditions of high energy concentration, and the stability limits and decay of states of thermodynamic equilibrium in solids and liquids under overheating and high tensile stresses (negative pressures). Works on the determination of the entropy of various systems, simple substances and mixtures in modeling and experiments are welcome.

Dr. Konstantin V Khishchenko

Guest Editor





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](#)