entropy

an Open Access Journal by MDPI

IMPACT FACTOR 2.7

Indexed in: PubMed

CITESCORE 4.7

Thermodynamic Evaluation and Optimization of Combustion Processes

Guest Editors:

Prof. Dr. Chun Lou

Prof. Dr. Jaroslaw Krzywanski

Dr. Zhongnong Zhang

Dr. Dorian Skrobek

Deadline for manuscript submissions:
23 May 2024

Message from the Guest Editors

Combustion is an important way for humans to obtain energy. However, the combustion process of some fuels, especially fossil fuels, produces a large amount of greenhouse gases and pollutants. To reduce the environmental impact of combustion, it is important to develop efficient combustion methods and systems by using the thermodynamics second-law analysis. The analysis method includes the evaluation of thermodynamic irreversibility and the efficiency of various flames, as well as the thermodynamic optimization of combustion processes by adjusting the combustion mode, flame structure, and burner structure. Some novel and improved combustion systems have been developed based on the thermodynamics second-law. From this perspective, we are committed to facilitating communication regarding high-quality studies in this field.

Topics include, but are not limited to:

- The thermodynamic evaluation of various combustion processes.
- Novel and improved combustion methods and systems.
- The development of algorithms and theories.
- New ideas for optimization methods.

entropy

IMPACT FACTOR 2.7 | Indexed in: PubMed | CITESCORE 4.7

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, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/entropy
entropy@mdpi.com
𝕏@Entropy_MDPI