entropy

an Open Access Journal by MDPI

IMPACT FACTOR 2.1

Indexed in: PubMed

CITESCORE 4.9

Future Directions of High Entropy Alloys

Guest Editor:

Dr. Nicholas G. Jones
Department of Materials Science and Metallurgy, University of Cambridge, Cambridge, UK

Deadline for manuscript submissions:
closed (15 December 2020)

Message from the Guest Editor

Since their first publication in 2004, the concepts, behaviour and properties of high entropy alloys (HEA) have generated huge scientific interest around the world.

To fulfil their hypothesised potential, these more promising HEA systems require further development before they can be adopted into service. Consequently, efforts need to focus on systems that can either compete with existing classes of materials, which themselves have decades of research behind them, or provide unique capabilities. Examples of such systems include but are not limited to refractory metal high entropy superalloys for high temperature service; alloys with high resistance to radiation damage for nuclear applications; narrow freezing range alloys for joining; and corrosion resistant alloys for environmental resistance. As such, this Special Issue will focus on the potential of high entropy alloys, identify key opportunities for these materials and provide critical opinions as to their future direction.

entropy

IMPACT FACTOR 2.1 | Indexed in: PubMed | CITESCORE 4.9

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