

## Special Issue

# Quantum Entanglement

### Message from the Guest Editors

Quantum entanglement and, more in general, quantum correlations, represent a characteristic trait of quantum mechanics. In the recent years, quantum entanglement and its correlations have become a formidable tool for overcoming the classical limits in several fields, ranging from calculus and communication, to imaging and metrology. We can quantify quantum entanglement and correlations in different ways. Some of these measures are hierarchically related each other. There have also been extensive applications of these measures to many fields, ranging from quantum optics to atomic and molecular physics. This Special Issue hopes to present both theoretical and experimental works related to quantum entanglement and correlations. The welcome theoretical and experimental papers on all aspects of research on quantum correlations, ranging from purely abstract matter to commercial applications. Topics of interest include, but are not limited, to quantum technologies (including quantum information, quantum communication, quantum metrology and sensing, quantum imaging, and so forth), foundations of quantum mechanics, and new measures and applications of quantum correlations.

### Guest Editors

Prof. Dr. Leong Chuan Kwek

Centre for Quantum Technologies, National University of Singapore, 3 Science Drive 2, Singapore 117543, Singapore

Prof. Dr. Marco Genovese

Istituto Nazionale di Ricerca Metrologica, Strada delle Cacce 91, 10135 Turin, Italy

### Deadline for manuscript submissions

closed (17 July 2020)



## Entropy

an Open Access Journal  
by MDPI

Impact Factor 2.1  
CiteScore 5.2  
Indexed in PubMed



[mdpi.com/si/27722](https://mdpi.com/si/27722)

Entropy  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[entropy@mdpi.com](mailto:entropy@mdpi.com)

[mdpi.com/journal/  
entropy](https://mdpi.com/journal/entropy)





# Entropy

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.1  
CiteScore 5.2  
Indexed in PubMed



[mdpi.com/journal/  
entropy](https://mdpi.com/journal/entropy)



## 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)