



entropy



an Open Access Journal by MDPI

## Coherence in Open Quantum Systems

Guest Editors:

**Prof. Dr. Hichem Eleuch**

Department of Applied Sciences  
and Mathematics, College of Arts  
and Sciences, Abu Dhabi  
University, Abu Dhabi, UAE

**Prof. Dr. Ingrid Rotter**

Max-Planck-Institut für Physik  
komplexer Systeme, Nöthnitzer  
Str. 38, Dresden, Germany

Deadline for manuscript  
submissions:

**closed (15 December 2018)**

### Message from the Guest Editors

Dear Colleagues,

The aim of the present Special Issue is to discuss different theoretical, as well as experimental, results characteristic of open quantum systems. In order to underline their meaning, a few results that are characteristic of other systems (including classical systems and optics) will also be considered. Of special interest are, among others, the following topics: Singular points and their influence on the dynamics of open systems; eigenvalues and eigenfunctions of a non-Hermitian Hamilton operator describing an open quantum system; formation of aggregates in small systems; nonadiabatic processes in open quantum systems; transmission through quantum dots; and photosynthesis.

Prof. Dr. Hichem Eleuch

Prof. Dr. Ingrid Rotter

*Guest Editors*



[mdpi.com/si/11346](https://mdpi.com/si/11346)

Special Issue



*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](http://www.mdpi.com)

[mdpi.com/journal/entropy](http://mdpi.com/journal/entropy)  
[entropy@mdpi.com](mailto:entropy@mdpi.com)  
[X@Entropy\\_MDPI](https://twitter.com/Entropy_MDPI)