



Theory of Open Quantum Systems and Its Applications

Guest Editor:

Dr. Alexander Teretenkov

Department of Mathematical
Methods for Quantum
Technologies, Steklov
Mathematical Institute of Russian
Academy of Sciences, Moscow
119991, Russia

Deadline for manuscript
submissions:

closed (31 January 2024)

Message from the Guest Editor

The theory of open quantum systems has been one of the fastest-growing fields in recent decades with an immeasurable number of specific physical applications. Although much has been done, this process has only intensified in recent years. Great progress has been made both in such “classical” open quantum systems topics as Markovian master equations, and in non-Markovian dynamics and the description of multi-time correlation behaviour. Many new applications and mutual enrichment come from the intersection of open quantum systems theory and rapidly evolving areas such as quantum information theory, quantum thermodynamics and quantum control theory. Thus, it is important to initiate this Special Issue dedicated to recent developments in the area. All contributions with novel results related to open quantum systems theory or its applications are welcome.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and
Informatics, De Montfort
University, The Gateway,
Leicester LE1 9BH, UK

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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), RePEc, and other databases.

Journal Rank: JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Contact Us

Mathematics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/mathematics
mathematics@mdpi.com
[X@MathematicsMDPI](https://twitter.com/MathematicsMDPI)