

Special Issue

Mathematical Analysis of Infectious Disease

Message from the Guest Editors

Mathematical models are actively evolving and playing increasingly significant roles in understanding disease outbreaks, viral dynamics, and many other phenomena in life science. This Special Issue focuses on mathematical methods and their applications in infectious disease modeling. The topics of interest range from the new development of models and techniques to novel mathematical analyses of existing models. We invite original research related, but not limited to, the following topics:

- Mechanism-driven or data-driven models of infectious diseases;
- Theoretical analysis of infectious disease models;
- Data analysis in the field of disease modelling.

Guest Editors

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Deadline for manuscript submissions

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About the Journal

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.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).