

Special Issue

Recent Advances in Kinetic Theory and Numerical Computations

Message from the Guest Editor

Kinetic equations have been widely used in a variety of important areas, including in rarefied gas; plasma physics; astrophysics; semiconductor device modeling; environmental, social, and biological sciences; etc. They describe the non-equilibrium dynamics of a gas or system composed of a large number of particles. This Special Issue entitled *Recent Advances in Kinetic Theory and Numerical Computations* aims to collate recent works on kinetic and related models, including both theoretical analysis and numerical methods. Potential research topics include (but are not limited to) the following: uncertainty quantification for kinetic problems, multi-scale and high-dimensional kinetic equations, data-driven and deep learning approaches for solving kinetic or related problems, etc.

Guest Editor

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Deadline for manuscript submissions

closed (30 August 2024)



Mathematics

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Impact Factor 2.3
CiteScore 5.4



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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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Prof. Dr. Francisco Chiclana

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