

Special Issue

Algebra, Ring Theory, and Homological Algebra with Analysis and Applications

Message from the Guest Editor

We present this Special Issue with the aim of highlighting the research being conducted primarily in ring theory and algebras, using methods mostly related to category theory and homological algebra. High-quality articles on coalgebras, Hopf algebras, and their generalizations will also be appreciated. Another objective is to provide space and visibility for contributions that represent a clear interaction between algebra and mathematical analysis. Purely applied articles that use algebraic techniques, such as those in the areas of coding theory and cryptography, are also welcome. In short, our intention is to include high-quality works that represent a real advance in mathematical research.

Guest Editor

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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 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).