# Special Issue

# Analytic Methods in Number Theory and Allied Fields

## Message from the Guest Editors

Number theory has been described as a queen of mathematics, which is no longer the case with the development of computers and coding theory, combinatorics, etc. It is more properly attributed as a touchstone of other subjects to develop themselves thorough application to concrete problems. Analytic number theory begins with Dirichlet's prime number theorem in an arithmetic progression thorough the class number formula. Here one sees the profound interplay between analysis and number theory. Since the advent of Dirichlet's theorem, analytic methods have been ubiquitous in the development of number theory and related areas. In our Special Issue, we assemble applications of analytic methods (ranging from complex and harmonic analysisto differential equations and functional analysis) to other areas including number theory, combinatorics, etc. We welcome papers which attain analytic expressions and algebraic elucidation thereof, but manuscripts on other relevant topics are also welcome.

## Guest Editors

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## Deadline for manuscript submissions

31 December 2025

# 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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