

Special Issue

New Trends in Geometric Group Theory and Geometric Topology

Message from the Guest Editors

A major focus of geometric group theory is the study of finitely generated groups through a geometric lens—a perspective grounded in the well-established theory of compact manifolds in geometric topology. Inspired by the Milnor–Schwarz Lemma, this approach introduces concepts such as quasi-isometry, which captures the coarse geometric structure of groups and reveals deep connections between their algebraic and geometric properties.

In parallel, the study of topologized groups—such as profinite groups, which arise naturally from topological covering theory—introduces a different layer of structure and rigidity. This notion of rigidity, echoing the local-to-global (Hasse) principles in number theory, has proven essential in understanding the finer structure of groups.

This Special Issue on “New Trends in Geometric Group Theory and Geometric Topology” is dedicated to showcasing innovative and foundational research at the forefront of these intertwined disciplines. We welcome high-quality submissions that present original results of broad interest.

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Deadline for manuscript submissions

30 September 2026



Mathematics

an Open Access Journal
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Impact Factor 2.3
CiteScore 5.4



mdpi.com/si/251097

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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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