Special Issue

Organocatalysis: Past, Present, and Future Perspectives

Message from the Guest Editor

Since the seminal work of the 2021 Nobel Prize Winners for Chemistry, Professors David W. C. MacMillan and Benjamin List, in the late 1990s, organocatalysis has recorded an extraordinary blossoming to the point that it can now be counted as one fundamental pillar of (asymmetric) catalysis, paralleling and complementing to metal-catalyzed reactions and biocatalysis. In fact, the publication of about 1500 articles per year in the last decade is proof of the great growth of organocatalysis, which undoubtedly represents one of the fastest-growing themes in Chemistry.

The enormous interest of so many research groups in organocatalytic reactions stems from some typical distinguishing features, among which operational simplicity, tolerance to air and moisture, and, with specific reference to catalysts, high stability/robustness, non-toxicity, wide functional group tolerance, and broad molecular diversity, also made possible drawing on members of the “chiral pool” (e.g., alkaloids, amino acids, carbohydrates) or their derivatives.

This Special Issue is meant to collect original research articles and reviews on the topic of organocatalysis in all its possible applications.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2025)

Molecules

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Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/105737

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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