

Special Issue

Harnessing Nature's Chemical Diversity: Innovations in Isolation, Identification, and Synthesis

Message from the Guest Editors

In this Special Issue of *Molecules*, we venture into the remarkable realm of natural products and their ever-evolving importance in medicine, agriculture, and biotechnology. Our contributors highlight groundbreaking techniques for isolating, identifying, and synthesizing these bioactive compounds, showcasing how cutting-edge chromatographic and spectroscopic methods propel discoveries and deepen our understanding of their unique structures. Through innovative synthetic approaches and strategic modifications, researchers are now overcoming challenges posed by low natural abundance and structural complexity. This multidisciplinary synergy extends beyond pharmacology, shedding light on ecological roles such as plant defense and biodiversity maintenance. By integrating chemical, biological, and ecological perspectives, this Special Issue empowers scientists and industry experts to push the boundaries of natural product chemistry, opening new frontiers for application and collaboration. We invite you to explore these transformative findings, revealing the hidden potential of nature's molecular treasures and charting the future of natural product research.

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About the Journal

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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