

Special Issue

Advances in the Synthesis of Natural Bioactive Compounds

Message from the Guest Editor

Natural bioactive compounds are natural products with pharmacological activity produced by animals, plants, and microorganisms, for example, podophyllotoxin, paclitaxel, and (-)- α -elemene, etc. The compounds are commonly secondary metabolic products with complex structures and low yields, which makes the study of their large-scale production pivotal for drug development. Chemical or biological synthesis shows prominent advantages in obtaining natural bioactive products. This Special Issue aims to provide a broad survey of the chemical and biological synthesis of natural bioactive compounds. Original research articles or reviews that discuss the rational design, AI simulation, de novo synthesis and modification using chemical methods, or the cellular uptake and usage of complicated substrates, expression and regulation of related genes, biosynthesis from simple substrates or derivation from prodrugs using enzymatic reactions, and improved extraction methodologies of natural bioactive compounds, as well as other related articles, are welcome.

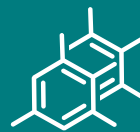
Guest Editor

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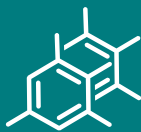


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Message from the Editor-in-Chief

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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