

Special Issue

Chemical Analyses and Applications of Essential Oils—2nd Edition

Message from the Guest Editor

Essential oils (EOs) are complex mixtures of volatile compounds obtained from materials derived mainly from aromatic plants. These natural products are particularly interesting, as they exhibit a wide range of biological effects, including antimicrobial, antiviral, antioxidant, antiemetic, nematocidal, expectorant, anti-inflammatory, and diuretic properties, among others. The multidirectional biological properties of EOs underpin their potential applications in medicine, veterinary science, and various industries, including cosmetics, food, and agriculture. The purpose of this Special Issue is to expand knowledge on diverse approaches for the chemical analysis of the liquid and vapor phases of EOs, the isolation of single components from biological matrices, and the correlation of chemical data with the bioactivity of EOs and their compounds in the exploration of their new potential applications.

Guest Editor

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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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