Special Issue

Chemical Compositions and Biological Activities of Essential Oils

Message from the Guest Editors

Over the past years, interest in botanical insecticides has increased as a result of environmental concerns and insect populations becoming resistant to conventional chemicals. To defend themselves against herbivores and pathogens, plants naturally release a variety of volatiles including various alcohols, terpenes, and aromatic compounds. Essential oils from different plant species possess ovicidal, larvicidal, and repellent properties against various insect species and are regarded as environmentally compatible pesticides. In spite of the widespread recognition that plant essential oils and/or their constituents are reported as safe products for users and the environment, few pest control products based on plant essential oils have appeared in the market place. This Special Issue will publish contributions on aspects of essential oils as natural insecticides, as well as the development of new systems (i.e., polymers entrapping EOs) that can inhibit the growth and infection of crops by phytopathogens. Reviews, original research, and articles that make substantial advances within this field are invited to contribute to this editorial project.

Guest Editors

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Deadline for manuscript submissions

closed (24 December 2020)

Molecules

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Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/30065

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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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