Special Issue

Progress in Volatile Organic Compounds Research

Message from the Guest Editor

Volatile organic compounds (VOCs) have been investigated in last few decades. Their origins are different: Plant secondary metabolites, food/beverages aroma, fungal/bacterial volatiles... VOCs occur as a complex mixture of compounds (e.g., monoterpenes, sesquiterpenes, norisoprenoids, aliphatic/aromatic compounds, sulfur containing compounds, others). They are formed through different biochemical pathways and could be modified or created during drying or maturation, thermal treatment, and others. The ecological interactions are mediated by VOCs and they can act as pheromones, attractants or alleochemicals. Chemical biomarkers of botanical origin or chemotaxonomic markers can be found. VOCs possess different biological activities, such as antioxidant, antimicrobial, antiviral, anticancer, and others.

There is still great need to research VOCs from different sources, to report their distribution, chemical profiles, and to discover new compounds. This Special Issue aims to attract up-to-date contributions on all aspects of VOCs chemistry (from challenges in their isolation, analysis to synthesis) and on unlocking their biological activities or other useful properties.

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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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