Special Issue

Flavonoids and Xanthones: Phytochemistry, Chemotaxonomy, and Biological Activities

Message from the Guest Editor

Flavonoids are commonly reported from angiosperms, gymnosperms, ferns, and mosses as well as a few fungi and algae, and ca. 10,000 kinds are found as natural compounds. They are divided into an assortment of classes, including anthocyanins, flavones, flavonols, flavanones, dihydroflavonols, chalcones, aurones, flavans, and proanthocyanidins; they are found in most plant parts, e.g., flowers, leaves, roots, stems, buds, and seedlings and seeds, and act as antioxidants, UV shields, attractors of pollinators, flower colors, oviposition stimulants, allelopathic agents, and phytoalexins in many plants. On the other hand, ca. 200 xanthones are reported from vascular plants, as well as fungi and lichens. However, flavonoids and xanthones have not been surveyed in many plant species. In this Special Issue, we will accept papers on flavonoid identification, new sources, chemotaxonomy or chemosystematics, and biological activities.

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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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