Special Issue

Curcumin and Its Derivatives

Message from the Guest Editor

In the last decades, the naturally occurring polyphenol curcumin has earned increased attention in view of its in vitro beneficial effects comprising antioxidant, anti-inflammatory, and anti-cancer activities. Unfortunately, curcumin has poor water-solubility and bioavailability, drawbacks that hamper its great therapeutic properties and hold back its use in biomedical applications. This limit could be overcome by designing new methods of administration or by synthesizing novel daughter compounds with modified chemical structures. Curcumin and its derivatives also have applications in the development of new materials and chemical sensors. In this landscape, this Special Issue of *Molecules* dedicated to "Curcumin and its derivatives" aims to collect the latest cutting-edge discoveries in the synthesis, characterization, theoretical calculations, delivery, and applications of curcumin-based compounds and materials.

Guest Editor

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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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