

Special Issue

Novelties in Carotenoid Chemistry: From Isolation and Synthesis to Properties, Structural Elucidation and Function

Message from the Guest Editors

Carotenoids are colourful pigments that are prevalent in nature. Carotenoids play important roles as antioxidants in health promotion and disease prevention and also participate in many other activities, such as energy production and vision. Carotenoid research at present focuses not only on isolation and structure elucidation from natural sources but also on the synthesis and semi-synthesis of carotenoid-like poly-isoprenoids. To better understand the function or structure–activity relationships of natural or non-natural carotenoids, various physical and chemical properties can be measured, such as electronic properties, membrane penetration properties, antioxidant activity, and changes in spectroscopic properties. We invite you to submit original research papers or review articles focusing on all issues related to carotenoid chemistry in a wider sense.

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As the premier open access journal dedicated to molecular chemistry, now in its 30th 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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