

Natural Antioxidants, Dyes and Their Synthetic Analogs

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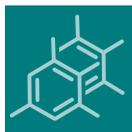
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Message from the Guest Editor

Beneficial properties of natural compounds can be improved by covalent or noncovalent chemical modifications. The modified derivatives may find useful applications in medical and material sciences. Antioxidant compounds, especially with an extended conjugated electron system, such as carotenoids or polyphenols, are proven radical scavengers and efficient agents against oxidative stress-related conditions. Nevertheless, these compounds are also promising candidates to create novel structures being organic conductive materials, molecular wires, or dyes with specific light-absorption properties, as well as amphipatic molecules with self-organization.

The aim of this Special Issue, “Natural Antioxidants, Dyes and Their Synthetic Analogs,” is to collect the recent discoveries about the native or modified structures, including isolation, structure elucidation, chemical modification, (semi)synthesis, antioxidant studies, structure-activity relationship, synergic effects, delivery, supramolecular organization, electrochemical and spectroscopic properties, in silico calculations, and other related findings.





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Message from the Editor-in-Chief

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