

Special Issue

Flavor Compounds in Tea: Formation, Transformation and Health Beneficial Effects

Message from the Guest Editors

As a widely consumed beverage over the world, the growth of tea plants, the processing methods of teas, and their health benefits have been generating attention within both academia and industry. Tea contains various types of flavor matters, such as tea polyphenols, alkaloids, amino acids and volatiles, not only endowing teas with a unique taste and characteristic aroma but also contributing to their health benefits. Many flavor compounds in teas are thermolabile or susceptible, which are transformed during processing and storage resulted in the generation of new compounds not originating from tea leaves. In recent years, multi-omics technology and an advanced data analysis approach have been applied to deepen our understanding of tea growth, tea processing and tea health benefits. This Special Issue aims to collect research articles and review papers on the flavor compounds in teas, including their biosynthesis and regulation in tea plants, transformations during tea processing, as well as bioactivities and health benefits. Papers describing the formation, transformation or health benefits of specific flavor molecules are especially welcome.

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Deadline for manuscript submissions

closed (31 December 2022)



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CiteScore 8.6
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