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Utilization of Plant Protein for Functional Food Ingredients and Biobased Products

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Message from the Guest Editors

The demand for plant-based proteins as alternatives to animal-derived proteins has been steadily rising in multiple food systems. Existing research has also revealed that the nutritional quality of plant proteins, strategies for wisely using plant proteins to meet indispensable amino acid requirements, effects of plant proteins on health and physical function, and potential health and safety concerns associated with plant proteins. However, plant proteins have comparatively poor functionality, defined as poor solubility, foaming, emulsifying, and gelling properties, limiting their use in food products. Recently, the functional properties of plant protein were improved with different technologies, such as physical treatment, chemical modification, and addition of polysaccharides and polyphenols. The structures of plant proteins have also been explored.

This Special Issue may include, but are not limited to, the exploration and modification of the protein–polysaccharide or protein–polyphenol interactions, the inclusion of plant protein-generated flavors, and novel techniques for the modification of plant protein structures.



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Special Issue



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Message from the Editor-in-Chief

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