

## Special Issue

# Structures, Physicochemical Properties, and Applications of Natural Carbohydrates

### Message from the Guest Editor

Natural carbohydrates play a central role in food systems due to their structural diversity and broad range of functional properties. Advances in extraction, characterization, and modification techniques have expanded the understanding of how these biopolymers contribute to texture, stability, water interactions, and mass transfer phenomena in complex matrices. The growing demand for clean-label and sustainable ingredients has also intensified interest in natural carbohydrate-based solutions for technological and nutritional purposes. Recent studies have explored their gelling, thickening, emulsifying, and film-forming capacities, in addition to their contribution to digestibility, glycemic response, and physiological functionality. New analytical tools and processing methods have enabled the elucidation of structure–property relationships and supported their application in innovative food products. This Special Issue welcomes original research and reviews addressing structural features, physicochemical behavior, technological performance, and emerging applications of natural carbohydrates across food and related industries.

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### Guest Editor

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### Deadline for manuscript submissions

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## Foods

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### Message from the Editor-in-Chief

*Foods* (ISSN 2304-8158) is an open access and peer reviewed scientific journal that publishes original articles, critical reviews, case reports, and short communications on food science. Articles are released monthly online, with unlimited free access. Currently, *Foods* has been indexed by the Science Citation Index Expanded (SCIE - Web of Science), PubMed, and Scopus. Our aim is to encourage scientists, researchers, and other food professionals to publish their experimental and theoretical results as much detail as possible. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global food science community.

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### Editor-in-Chief

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