Special Issue

Food Protein and Peptides: Structural Characterization and Physicochemical Properties

Message from the Guest Editor

The relationship between food protein and peptide structures and their functional properties is fundamental to food science, yet requires deeper exploration. Growing demand for sustainable foods and personalized nutrition makes understanding these structures increasingly critical. Such knowledge is key to unlocking their techno-functional properties like gelation and emulsification, as well as bioactivities such as antioxidant and antimicrobial effects. This Special Issue addresses this need. We seek cutting-edge research using advanced techniques—spectroscopy, chromatography, bioinformatics, computational modeling, and AI—to elucidate the structures of these molecules. By compiling high-quality contributions, we aim to connect structural insights with practical applications, promoting innovation in food processing, functional food development, and the valorization of protein sources for a healthier, sustainable future.

Guest Editor

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Deadline for manuscript submissions

18 May 2026

Foods

MDPI

About the Journal

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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