

Special Issue

Mathematical Modelling of Food Processing

Message from the Guest Editors

Modelling can be performed either through the use of analytical, numerical or empirical tools and can include the prediction and understanding of complex transport processes, physicochemical property changes and even oral mastication as well as gastro-intestinal digestion. Modelling is beneficial in understanding the nature of a process and determining the relevant effective and/or optimal process parameters and conditions. Simulation strategies in modelling could be beneficial in the visualization of the effects of process parameters, determination of the optimal process conditions or design parameters for the scaling-up of industrial lines, and their validation.

This Special Issue aims to serve as an outlet for high-quality, state-of-the art articles dealing with all aspects of mathematical modelling as related to foods. Potential topics include, but are not limited to, numerical methods in mathematical modelling, computational simulations, trends in modelling procedures for food processing, modelling-based optimization and design of food processing operations/systems and their validation, and life cycle analysis.

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.8 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2026).