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Mathematical/Kinetic Modeling of Safety and Quality Attribute Changes During Food Processing or Storage

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Deadline for manuscript
submissions:

closed (15 March 2025)

Message from the Guest Editors

Dear Colleagues,

Understanding the intricate dynamics of safety and quality attribute changes during food processing or storage is pivotal for ensuring food safety and maintaining product quality throughout shelf-life. Mathematical and kinetic modeling techniques play a pivotal role in this pursuit, offering predictive insights into the complex transformations within food systems. This Special Issue aims to curate original research and reviews focused on mathematical and kinetic modeling methodologies, encompassing a broad spectrum of approaches. Contributions are invited to explore various mathematical models, including reaction kinetics, transport phenomena, predictive algorithms, statistical modeling, computational simulations and machine learning applications. The focus is on decoding and forecasting alterations in chemical, microbiological, physical and sensory attributes. Submissions should demonstrate the application of diverse modeling frameworks across different food categories and processing scenarios, aiming to unravel the kinetics underlying safety and quality changes.

We are looking forward to your submissions.



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Special Issue



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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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