

Special Issue

Artificial Intelligence and Modeling Science in the Food Industry

Message from the Guest Editors

In recent years, artificial intelligence (AI) and modeling science have emerged as transformative tools in the food industry, revolutionizing processes from production to consumption. With the growing demand for sustainable food systems, enhanced quality control, and personalized nutrition, data-driven technologies such as machine learning, deep learning, predictive modeling, and computer vision are becoming increasingly utilized to address complex challenges, including optimizing supply chains, improving food safety, and innovating product development.

This Special Issue aims to showcase cutting-edge research that bridges AI, modeling science, and food science, fostering interdisciplinary dialogue to advance this field. Key objectives include the following:

Showcasing AI-driven solutions for food quality assessment, safety monitoring, and process optimization.

Exploring modeling approaches for predicting food properties, flavor profiles, and nutritional outcomes.

Promoting sustainable food systems through AI-enhanced resource efficiency and waste reduction.

Encouraging cross-disciplinary collaborations between food scientists, data scientists, and engineers.

Guest Editors

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Deadline for manuscript submissions

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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.

Editor-in-Chief

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