

Special Issue

Future Edible Oils: Green Extraction, Analytical Techniques and Food Industry Applications

Message from the Guest Editors

The global demand for sustainable and nutritious edible oils is rapidly growing, driving innovation across the entire value chain. This Special Issue explores cutting-edge advancements in green extraction technologies (e.g., enzyme-assisted, supercritical CO₂, ultrasound- and microwave-assisted methods, etc.) and novel oleaginous resources and their underutilized bioactive compounds (e.g., tocotrienols, vitamins, lignans and cyclopeptides, etc.). We also highlight advanced analytical techniques (e.g., omics, hyperspectral imaging, AI-driven assessment) and novel food industry applications (including functional foods, plant-based alternatives, and lipid-based delivery systems). Contributions on circular economy approaches (e.g., byproduct valorization), sustainability assessments (LCA, techno-economic analysis), and regulatory considerations for next-generation edible oils are also welcome. Studies emphasizing health benefits of unconventional oils (microbial, algae, insect-derived) and their endogenous bioactive compounds are particularly encouraged, as are papers on process intensification and optimization for preserving bioactive compounds.

Guest Editors

Dr. Ying Li

China-Malaysia "Belt and Road" Joint Laboratory on Oil Processing and Safety, Jinan University, Guangzhou 510632, China

Dr. Anne Sylvie Fabiano-Tixier

UMR 408 INRA-UAPV, Sécurité et Qualité des Produits d'Origine Végétale (SQPOV), 84916 Avignon Cedex 9, France

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
foods@mdpi.com

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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

Prof. Dr. Arun K. Bhunia

1. Department of Food Science, Purdue University, West Lafayette, IN 47907, USA

2. Department of Comparative Pathobiology, Purdue University, West Lafayette, IN 47907, USA

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