Special Issue

Plant Essential Oils: Extraction, Characterization, Biological Activities, and Their Applications in Foods

Message from the Guest Editors

Essential oils are considered as the most frequently used of all natural products for complementary and alternative medicines. Furthermore, essential oils are used in various medical facilities for infection control and to achieve holistic healing. Essential oils also use extends to preservation of foods and in veterinary science. Additionally, machine learning methods can be used for classification and prediction of essential oil chemical components properties. With these applications in mind, this Special Issue invites you to present your novel research within the field of aromatic plants and essential oils with the purpose of putting together a collection of high-quality outputs that can enhance the field of essential oil research. Potential topics include but are not limited to:

- extraction
- characterization
- biological activity
- veterinary use
- toxicology
- interactive studies
- food formulation studies
- studies on essential oil compounds
- machine learning applications

Guest Editors

Dr. Saša Đurović
Institute of General and Physical Chemistry, University of Belgrade, Studentski trg 12/V, 11158 Belgrade, Serbia

Dr. Snežana Filip
Technical Faculty "Mihajlo Pupin" Zrenjanin, University of Novi Sad, 23000 Zrenjanin, Serbia

Deadline for manuscript submissions

15 February 2026

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

Author Benefits

High Visibility:
indexed within Scopus, SCIE (Web of Science), PubMed, PMC, FSTA, AGRIS, PubAg, and other databases.

Journal Rank:
JCR - Q1 (Food Science and Technology) / CiteScore - Q1 (Health Professions (miscellaneous))

Rapid Publication:
manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).