

Special Issue

Innovative Processing and Engineering Approaches for Fruit and Bio-Based Products

Message from the Guest Editors

In this Special Issue, original research articles and comprehensive reviews are welcome. Research areas may include, but are not limited to, the following topics: (a) Innovative processing technologies for fruit and bio-based products (e.g., nonthermal processing, pulsed electric field, high-pressure processing, ultrasound, cold plasma). (b) Advanced extraction and separation methods (e.g., green extraction, supercritical CO₂ extraction, membrane technologies) for the engineering design and optimization of processing equipment and systems. (c) Digitalization, automation, and smart technologies in food and bioproduct engineering (e.g., AI/ML-based process control, IoT-enabled monitoring, digital twins). (d) Postharvest engineering and preservation strategies (e.g., storage systems, controlled atmospheres, packaging innovations). (e) Valorization of fruit by-products and bio-based residues (e.g., bioconversion, biorefinery approaches, circular bioeconomy practices). (f) Quality evaluation and characterization techniques (e.g., spectroscopic methods, imaging technologies, sensor-based quality assessment). (g) Sustainability assessments, life cycle analysis, and energy-efficient processes

Guest Editors

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About the Journal

Message from the Editor-in-Chief

AgriEngineering (ISSN 2624-7402) is an international open access, open-source, and cross-disciplinary scientific journal on the engineering science of agricultural and horticultural production. Our aim is to encourage scientists to publish their experimental and theoretical research, along with the full set of schematics, source-code, and mechanical design models leading to accelerated and rapid dissemination of leading-edge technologies emerging in agricultural, environmental, and agronomic engineering. *AgriEngineering* publishes articles, technical notes, reviews, commentaries, and case/field reports, as well as Special Issues on particular subjects.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 25.8 days after submission; acceptance to publication is undertaken in 5.7 days (median values for papers published in this journal in the first half of 2026).