



## Application and Development of Ultrasonic Technology in Food Processing

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### Message from the Guest Editors

Dear Colleagues,

Ultrasound has various applications in food processing due to its ability to induce physical, chemical, and mechanical changes in food materials. The use of ultrasound has a positive effect on the sensory evaluation of products and their nutritional value, generating lower energy costs and shorter processing times. Ultrasonic processing is an alternative to the conventional thermal methods used during pasteurization and food preservation. Ultrasonic technology is also used as an alternative to conventional freezing, thawing, and drying. Ultrasonic treatment is likewise used when extracting bioactive substances from raw plant materials. One more important topic is the use of ultrasound to wash fruits and vegetables.

This Special Issue aims to publish original scientific articles and review articles devoted to the use of ultrasonic technology in food processing. Another important issue is the effects of ultrasound on the composition, quality, and safety of foods and by-products. The use of ultrasound in the food industry requires the use of appropriate devices, including large-scale ultrasonic reactors, which are also the subject of this Special Issue.



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# Special Issue



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## Message from the Editor-in-Chief

*Processes* (ISSN 2227-9717) provides an advanced forum for process/system-related research in chemistry, biology, material, energy, environment, food, pharmaceutical, manufacturing and allied engineering fields. The journal publishes regular research papers, communications, letters, short notes and reviews. Our aim is to encourage researchers to publish their experimental, theoretical and computational results in as much detail as necessary. There is no restriction on paper length or number of figures and tables.

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