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Ultrasound Processing and Modification of Food Systems

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Message from the Guest Editors

Dear Colleagues,

In recent years, power ultrasound has attracted considerable attention from food researchers due to its promising potential in assisting the modern food industry. Recognized as an innovative technology for achieving sustainable and green chemistry and industrialisation, it has shown significant effects in accelerating various processes and modifying food substances. Today, ultrasound technology has been used for emulsification, de-foaming, substance modification, extraction, enzyme activation/inactivation, microbial inactivation, freezing, thawing, drying, etc.

This Special Issue aims to feature the most recent advances in ultrasound processing and the modification of diverse food systems. Potential topics include (1) the fundamental principles, lab-scale applications possible industrialisation strategies of ultrasound technology in various food processing systems (e.g. extraction. emulsification. sterilisation): structural/functional modification of food matrices/ingredients by ultrasound; (3) mechanisms and applications of combined technologies ultrasound. We invite researchers to submit original research or review articles on these topics.













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Message from the Editor-in-Chief

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