Ozone in Food Processing
Colm O'Donnell (Editor), Brijesh K. Tiwari (Editor), P. J. Cullen (Editor), Rip G. Rice (Editor)

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DESCRIPTION

This book is the first to bring together essential information on the application of ozone in food processing, providing an insight into the current state-of-the-art and reviewing established and emerging applications in food processing, preservation and waste management.

The chemical and physical properties of ozone are described, along with its microbial inactivation mechanisms. The various methods of ozone production are compared, including their economic and technical aspects. Several chapters are dedicated to the major food processing applications: fruit and vegetables, grains, meat, seafood and food hydrocolloids, and the effects on nutritional and quality parameters will be reviewed throughout. Further chapters examine the role of ozone in water treatment, in food waste treatment and in deactivating pesticide residues. The international regulatory and legislative picture is addressed, as are the health and safety implications of ozone processing and possible future trends.

ABOUT THE AUTHOR

Professor Colm O'Donnell, School of Biosystems Engineering, University College Dublin, Ireland.

Dr B.K. Tiwari, Department of Food and Tourism, Manchester Metropolitan University, UK.

Dr P.J. Cullen, School of Food Science and Environmental Health, Dublin Institute of Technology, Ireland.