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Cold Plasma Food Agriculture Fundamentals

Cold Plasma in Food and Agriculture: Fundamentals and Applications is an essential reference offering a broad perspective on a new, exciting, and growing field for the food industry.

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Cold Plasma in Food and Agriculture: Fundamentals and Applications is an essential reference offering a broad perspective on a new, exciting, and growing field for the food industry. Written for researchers, industry personnel, and students interested in nonthermal food technology, this reference will lay the groundwork of plasma physics, chemistry, and technology, and their biological applications. Food scientists and food engineers interested in understanding the theory and application of ...

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Cold Plasma in Food and Agriculture | ScienceDirect

A new edited book published by Dr Cullen on Cold Plasma in Food and Agriculture: Fundamentals and Applications is an essential reference offering a broad perspective on a new, exciting, and growing field for the food industry. Written for researchers, industry personnel, and students interested in nonthermal food technology, this reference will lay the groundwork of plasma physics, chemistry, and technology, and their biological applications. More here:

'Cold Plasma in Food and Agriculture'

Cold plasma processing methods possess many advantages in agriculture, owing to their operation at low-temperatures and short processing times, without inducing damage to crops, foods, seeds, humans, and the environment. Plasma discharges produce reactive neutral species, charged species (electrons, ions), electric fields, and ultraviolet radiation. These factors cause the change in density of reactive oxygen species (ROS), reactive nitrogen species (RNS), pH, oxidation-reduction ...

Plasma in Agriculture - ScienceDirect

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Applications Food industry. In the context of food processing, a nonthermal plasma (NTP) or cold plasma is specifically an antimicrobial treatment being investigated for application to fruits, vegetables and meat products with fragile surfaces. These foods are either not adequately sanitized or are otherwise unsuitable for treatment with chemicals, heat or other conventional food processing tools.

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