
Pulsed Electric Fields Technology Food Industry

pulsed electric field processing in food technology - present status of pulsed electric field technology the extent of improvement in a food processing company achieved by an emerging technology generally reflects the interest in that technology by the food industry. the method of high intensity pulse electric field used to inactivate microorganisms has been under **pulsed electric field technology - elea - home** - pulsed electric field (pef) is quick, flexible, energy-efficient and because heat is minimized, products have a longer shelf life whilst maintaining better nutritional value than with traditional food processing techniques. pef works by puncturing the cell membrane, whatever the size of cell. the process is targeted, gentle and clean. **pulsed electric field technology: modeling of electric ...** - ohmic technology, and microwave technology, as well as non-thermal processing technologies which include pulsed electric field technology and high pressure processing technology. this paper discussed the results of a study on mathematical modeling of electric field and temperature distributions in a pulsed electric field (pef) treatment chamber. **pulsed electric field technology in food preservation: a ...** - pulsed electric field provides an alternative choice for various food products, particularly for liquid foods, for better preservation and maintenance of fresh-like quality aspects of food. correspondingly, this memoir highlights the potential of pulsed electric field technology as **pulsed electric fields technology for the food ... - springer** - javier raso and volker heinz, pulsed electric fields technology for the food industry (2006) m. anandha rao, rheology of fluid and semisolid foods: principles and applications (1999) george d. saravacos and athanasios e. kostaropoulos, handbook of food processing equipment (2002) jorge e. lozano, fruit manufacturing (2006) **pulsed electric fields for food processing technology** - pulsed electric fields for food processing technology 279 3. the principles of pulsed electric field the basic principle of the pef technology is the application of short pulses of high electric fields with duration of microseconds micro- to milliseconds and intensity in the order of 10-80 kv/cm. **pulsed electric field technology in food processing ...** - abstract: pulsed electric field (pef) processing is a non-thermal method of food preservation. the basic principle of the pef technology is the application of short pulses of high electric fields with duration of micro seconds micro- to milliseconds and intensity in the order of 10- 80 kv/cm. **pulsed electric fields in food preservation - usp** - high levels of power. the generation of pefs requires two major devices: a pulsed power supply and a treatment chamber, which converts the pulsed voltage into pefs. pulsed electric fields in food preservation 785 pore initiation electric field water water influx membrane rupture cell lysis inactive cell swelling figure 33.2 mechanism of cell ...

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