

1. Record Nr.	UNISALENT0991004373236907536
Autore	Mugnaini, Marco
Titolo	Italia e Spagna nell'età contemporanea : cultura, politica e diplomazia, 1814-1870 / Marco Mugnaini
Pubbl/distr/stampa	Alessandria : Edizioni dell'orso, 1994
ISBN	8876941657
Descrizione fisica	364 p. ; 21 cm
Collana	Biblioteca di Spagna contemporanea ; 2
Disciplina	327.45046
Soggetti	Italia Relazioni [con la] Spagna 1814-1870 Spagna Relazioni [con l'] Italia 1814-1870
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	In testa al frontespizio: Istituto di studi storici Gaetano Salvemini.

2. Record Nr.	UNINA9910975281203321
Titolo	Emerging technologies for food processing / / edited by Da-Wen Sun
Pubbl/distr/stampa	San Diego, Calif., : Elsevier Academic Press, c2005
ISBN	1-280-63796-X 9786610637966 0-08-045564-6
Edizione	[1st ed.]
Descrizione fisica	1 online resource (787 p.)
Collana	Food science and technology international series
Altri autori (Persone)	SunDa-Wen
Disciplina	664
Soggetti	Food industry and trade - Technological innovations Agricultural processing industries - Technological innovations
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Emerging Technologies for Food Processing; Contents; About the Editor; Contributors; Preface; Part 1 High Pressure Processing; 1. High Pressure Processing of Foods: An Overview; 1 Introduction; 2 Principles of high pressure processing; 2.1 Background; 2.2 Description of the process; 2.3 Process principles; 2.4 Packaging requirements; 2.5 Current commercial status of high pressure processing; 3 Use of high pressure to improve food safety and stability; 3.1 Effect of high pressure on microorganisms; 3.1.1 Bacteria; 3.1.2 Bacterial spores; 3.1.3 Fungi; 3.1.4 Viruses; 3.1.5 Prions 3.2 Factors influencing microbial sensitivity to high pressure 3.2.1 pH; 3.2.2 Water activity ( $a_{\text{sub}(w)}$ ); 3.2.3 Temperature, pressure and holding time; 3.3 High pressure regulations; 4 Effects of high pressure on food quality; 4.1 Effect of high pressure on food colour; 4.2 Effect of high pressure on food texture; 4.3 Effect of high pressure on food sensory quality; 4.4 Effect of high pressure on food yield; 5 Other applications of high pressure; 5.1 High pressure freezing applications; 5.2 High pressure thawing; 5.3 High pressure non-frozen storage; 6 Modelling HP processes 6.1 Modelling high pressure processes 6.2 Modelling high pressure freezing processes; 7 Outlook for high pressure processing of food; 8 Conclusions; References; 2. High-pressure Processing of Salads and

Ready Meals; 1 Introduction; 2 Importance of salads and ready meals; 3 Pressure effects on microorganisms; 3.1 Efficacy of microbial inactivation in HPP processed ready meals; 3.2 Efficacy of microbial inactivation in HPP-processed dips, sauces and salad dressings; 4 Pressure effects on enzyme activity; 4.1 Effect of high pressure on enzyme activity of fruits and vegetables  
4.2 Effect of high pressure on enzyme activity in meats  
5 Pressure effects on texture; 5.1 Textural changes in pressure treated ready meals; 5.2 Textural changes in pressure-treated dips, sauces and salad dressings; 6 Pressure effects on nutrients; 7 Conclusions; Acknowledgement; References; 3. Microbiological Aspects of High-pressure Processing; 1 Introduction; 2 Factors affecting effectiveness of treatment; 2.1 Types of organisms; 2.2 Food products; 2.3 Conditions of treatments; 2.4 Combined treatments; 3 Effects of high pressure; 3.1 Bacterial and fungal cells; 3.1.1 Morphology  
3.1.2 Cell wall and membrane  
3.1.3 Biochemical reactions; 3.1.4 Genetic mechanisms; 3.2 Bacterial spores; 3.3 Parasites; 3.4 Viruses; 4 Conclusions; References; Part 2 Pulsed Electric Fields Processing; 4. Overview of Pulsed Electric Field Processing for Food; 1 Introduction; 2 Historical background; 3 Mechanisms of action; 4 PEF treatment systems; 4.1 Generation of pulsed electric fields; 4.2 Treatment chamber design; 5 Main processing parameters; 5.1 Electric field strength; 5.2 Treatment time, specific energy and pulse geometry; 5.3 Treatment temperature; 5.4 Treatment medium factors  
5.4.1 Conductivity

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#### Sommario/riassunto

Emerging Technologies for Food Processing presents a comprehensive review of innovations in food processing, stresses topics vital to the food industry today, and pinpoints the trends in future research and development. This volume contains 27 chapters and is divided into six parts covering topics such as the latest advances in non-thermal processing, alternative technologies and strategies for thermal processing, the latest developments in food refrigeration, and current topics in minimal processing of vegetables, fruits, juices and cook-chill ready meals and modified atmosphere packag

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