

1. Record Nr.	UNINA9910350331903321
Titolo	Advances in Food Processing Technology // edited by Jingdun Jia, Donghong Liu, Haile Ma
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-6451-6
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (IX, 251 p. 90 illus., 36 illus. in color.)
Disciplina	641.3 664
Soggetti	Food—Biotechnology Nutrition Agriculture Manufactures Chemical engineering Food Science Manufacturing, Machines, Tools, Processes Industrial Chemistry/Chemical Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Innovation of Food Physical Processing Technology in China -- The Basic Concept of Food Physical Processing -- Green Separation Technologies in Food Processing: Supercritical-CO2 -- Research Progress on Power Ultrasound Technology -- Power Ultrasound for Extraction and Modification of Polysaccharides from Medicinal Fungi -- Pulsed Electric Fields Assisted Extraction of Bioactive Compounds -- Pulsed Electric Fields Processing of Protein-Based Foods -- Supercritical-CO2 (SC-CO2) as Non-Thermal Alternative Technology for Food Safety -- Physical and Mechanic Pretreatment of Raw Material for Health-Promoting Component Extraction -- Infrared Heating for Improved Drying Efficiency, Food Safety and Quality of Rice.
Sommario/riassunto	This book introduces readers to essential advances in the application of physical processing technology in food processing that have been made in recent years. It analyzes and describes the application of Power

Ultrasound, Pulsed Electric Field, Supercritical-CO₂, and Infrared Heating in the contexts of food sterilization, extraction, modification, drying and safety control. Covering all aspects of food physical processing, from basic principles to the latest technological developments, it offers a valuable application guide for food engineers and food researchers alike. .
