Jingdun Jia · Donghong Liu · Haile Ma Editors

## Advances in Food Processing Technology





## **Contents**

1	Jingdun Jia, Yiqiang Ge and Xun Wei	1
2	The Basic Concept and Research Progress of Food Physical Processing  Haile Ma, Jingdun Jia, Yiqiang Ge, Ronghai He, Cunshan Zhou, Xun Wei, Wenjuan Qu, Bei Wang, Bengang Wu, Ling Sun, Zhenbin Wang, Yanyan Zhang, Henan Zhang, Oladejo Ayobami Olayemi, Zhongli Pan and Xiulian Yin	33
3	Green Separation Technology in Food Processing: Supercritical-CO <sub>2</sub> Fluid Extraction Xingqian Ye, Sophia Jun Xue and John Shi	73
4	Power Ultrasound for Extraction and Modification of Polysaccharides from Medicinal Fungi	101
5	Pulsed Electric Field Assisted Extraction of Bioactive Compounds	125
6	Pulsed Electric Field Processing of Protein-Based Foods	137
7	Research Progress on Power Ultrasound Technology	149
8	Supercritical-CO <sub>2</sub> as a Nonthermal Alternative Technology for Food Safety	189

vi Contents

9	Physical and Mechanical Pretreatment of the Raw Material	
	for the Extraction of Health-Promoting Components	209
	Xingqian Ye, Sophia Jun Xue and John Shi	
10		
	and Quality of Rice	231
	Ragab Khir, Chandrasekar Venkitasamy and Zhongli Pan	