

Contents

1	Microwave-Assisted Extraction: An Introduction to Dielectric Heating	1
	Cristina Leonelli, Paolo Veronesi, and Giancarlo Cravotto	
2	Fundamentals of Microwave Extraction	15
	Priscilla C. Veggi, Julian Martinez, and M. Angela A. Meireles	
3	Microwave-Assisted Extraction of Essential Oils and Aromas	53
	Farid Chemat, Maryline Abert-Vian, and Xavier Fernandez	
4	The Role of Microwaves in the Extraction of Fats and Oils	69
	M.D. Luque de Castro, M.A. Fernández-Peralbo, B. Linares-Zea, and J. Linares	
5	Microwave-Assisted Extraction of Antioxidants and Food Colors	103
	Ying Li, Anne-Sylvie Fabiano-Tixier, Maryline Abert-Vian, and Farid Chemat	
6	The Role of Microwaves in Omics Disciplines	127
	M.D. Luque de Castro and M.A. Fernández-Peralbo	
7	Pharmaceutical and Nutraceutical Compounds from Natural Matrices	181
	Pedro Cintas, Emanuela Calcio-Gaudino, and Giancarlo Cravotto	
8	From Laboratory to Industry: Scale-Up, Quality, and Safety Consideration for Microwave-Assisted Extraction	207
	Ying Li, Marilena Radoiu, Anne-Sylvie Fabiano-Tixier, and Farid Chemat	
	Index	231