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Titolo	Plant Nutrients and Abiotic Stress Tolerance / / edited by Mirza Hasanuzzaman, Masayuki Fujita, Hirosuke Oku, Kamrun Nahar, Barbara Hawrylak-Nowak
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Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XXI, 590 p. 45 illus., 31 illus. in color.)
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Soggetti	Plant physiology
	Agriculture
	Soil science
	Soil conservation
	Plant breeding Plant Physiology
	Soil Science & Conservation
	Plant Breeding/Biotechnology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa

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	selenium-induced enhancement of abiotic stress tolerance in plants Chapter 13. Plant Nutrients and their Roles under Saline Soil Conditions Chapter 14. Ionic Basis of Salt Tolerance in Plants: Nutrient Homeostasis and Oxidative Stress Tolerance Chapter 15. Role of Micronutrients in Salt Stress Tolerance to Plants Chapter 16. Role of beneficial trace elements in salt stress tolerance of plants Chapter 17. Nutrient Homeostasis and Salt Stress Tolerance Chapter 18. Ion homeostasis and antioxidant defense towards salt tolerance in plants Chapter 19. Salinity Stress Alleviation by Organic and Inorganic Fertilization Chapter 20. Aspects of co-tolerance towards salt and heavy metal stresses in halophytic plant species Chapter 21. Role of mineral nutrients in plants growth under extreme temperatures Chapter 22. Molecular Approaches to Nutrient Uptake and Homeostasis in Plants under Abiotic Stress.
Sommario/riassunto	This book discusses many aspects of plant-nutrient-induced abiotic stress tolerance. It consists of 22 informative chapters on the basic role of plant nutrients and the latest research advances in the field of plant nutrients in abiotic stress tolerance as well as their practical applications. Today, plant nutrients are not only considered as food for plants, but also as regulators of numerous physiological processes including stress tolerance. They also interact with a number of biological molecules and signaling cascades. Although research work and review articles on the role of plant nutrients in abiotic stress tolerance have been published in a range of journals, annual reviews and book chapters, to date there has been no comprehensive book on this topic. As such, this timely book is a valuable resource for a wide audience, including plant scientists, agronomists, soil scientists, botanists, molecular biologists and environmental scientists.