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Descrizione fisica	1 online resource (595 pages)
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Lingua di pubblicazione	Inglese
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	Hormones Nanobiotechnology Effect of Nanoparticle on Plant Growth and Development Application of Nanobiotechnology in Overcoming Salinity Stress Application of Nanobiotechnology in Overcoming Drought Stress Application of Nanobiotechnology in Overcoming Temperature Stress Application of Nanobiotechnology in Overcoming Mineral Nutrients Stress Nanomaterials Combat Heavy Metals Toxicity by Modulating Oxidative Stress Pathways in Plants Nanonutrients: Plant Nutritive and Possible Antioxidant Regulators Impact of Nanomaterials Stress on Plants Biosafety of Nanomaterials for Plants to Coup with Stress Conditions Nanomaterials in Combating Plant Stress: An Approach for Future Applications.
Sommario/riassunto	This book provides up-to-date knowledge of the promising field of Nanobiotechnology with emphasis on the mitigation approaches to combat plant abiotic stress factors, including drought, salinity, waterlog, temperature extremes, mineral nutrients, and heavy metals. These factors adversely affect the growth as well as yield of crop plants worldwide, especially under the global climate change. Nanobiotechnology is viewed to revolutionize crop productivity in future. The chapters discuss the status and prospects of this cutting- edge technology toward understanding tolerance mechanisms, including signaling molecules and enzymes regulation in addition to the applications of Nanobiotechnology to combat individual abiotic stress factors.