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	Autore	PALA, Alberto
	Titolo	Isaac Newton : scienza e filosofia / Alberto Pala
	Pubbl/distr/stampa	Torino : Einaudi, c1969
	Descrizione fisica	XI, 254 p. ; 22 cm.
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2.	Record Nr.	UNINA9910887813403321
	Autore	Al-Khayri Jameel M
	Titolo	Innovative Methods in Horticultural Crop Improvement : Biosensors and Nanosensors // edited by Jameel M. Al-Khayri, Lina M. Alnaddaf, Shri Mohan Jain, Suprasanna Penna
	Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
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	Collana	Advances in Plant Breeding Strategies, , 3004-8745 ; ; 2
	Altri autori (Persone)	AlnaddafLina M JainS. Mohan PennaSuprasanna
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Nota di contenuto	<p>1 Biosensors for Monitoring of Analytes in Horticulture -- 2 Nanosensors for enhancing plant growth and productivity -- 3 Nano sensors for Studying Biochemical Pathways in Plants -- 4 Advances in the fabrication of nanosensors for management of abiotic stress in crop plants -- 5 Trends in MIP-inspired Biosensors for Early Detection of Crop Pathogens -- 6 Biosensors for determination of harvest quality parameters, sorting and grading -- 7 Biosensors and nanosensors for determination of harvest quality parameters and fruit handling processes monitoring -- 8 Biosensors and nanosensors for determination of fruit safety -- 9 Smart biosensors for precision agriculture -- 10 Smart biosensors for environment sustainability -- 11 Biosensor in climate-smart organic agriculture.</p>
Sommario/riassunto	<p>This book focuses on recent advances in biosensors and nanosensors to monitor, manage and improve horticultural crops in terms of plant growth, nutrient deficiency, toxicity, diseases, abiotic stress, soil amendments and agrochemicals entry into surrounding environment. Besides contributing to sustainable agriculture, these innovative tools facilitate promoting plant health and horticultural products quality and safety. The book consists of 11 chapters grouped in 4 parts. Part I Growth, Development and Productivity, Part II Trends in Abiotic and Biotic Stress Management, Part III Harvest Quality, Part IV Precision Agriculture and Environment Sustainability. Increased productivity, stimulation of plant growth, precise farming, monitoring food quality and freshness during production, processing, distribution and storage, reduced costs and waste, and sustainable agriculture are some of the concepts discussed. The book presents the mechanisms of biosensors and nanosensors for monitoring the various changes during pre- and post-harvest stages of horticultural crops. These are considered as efficient tools to achieve goals of plant breeders in horticultural crops improvement programs. Chapters are written by globally recognized scientists and subjected to a rigorous review process to ensure quality presentation and scientific precision. Each chapter begins with an introduction that covers similar contexts and includes a detailed discussion of the topic accompanied by high-quality color images, diagrams and relevant details and concludes with recommendations for future study directions in addition to a comprehensive bibliography. .</p>