1. Record Nr. UNINA9910495203703321

Titolo	Nanobiotechnology : Mitigation of Abiotic Stress in Plants / / edited by Jameel M. Al-Khayri, Mohammad Israil Ansari, Akhilesh Kumar Singh
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
ISBN	9783030736064 3030736067
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (595 pages)
Disciplina	581.788
Soggetti	Botany Agriculture Plant Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Abiotic Stress in Plants: Socio-economic Consequences and Crop Plants Responses -- Plant Abiotic Stress Tolerance Mechanisms -- Biotechnology Strategies to Combat Plant Abiotic Stress -- Nanomaterials Fundamentals: Classification, Synthesis and Characterization -- Utilization of Nanobiotechnology in Modern Agriculture -- Contributions of Nano Biosensors in Managing Environmental Stresses under Climate Change Era -- Utilization of Nanobiotechnology to Alleviate Impact of Abiotic Stress in Crop Plants -- Green Synthesis of Nanoparticles Using Different Plant Extracts and their Characterizations -- Applications of Plant-Derived Nanomaterials in Mitigation of Crop Abiotic Stress -- Biosynthesis and Characterization of Microorganisms-Derived Nanomaterials -- Utilization of Nanofertilizers in Plant Tolerance to Abiotic Stress -- Role of Nanomaterials in Regulating Reactive Species as a Signaling Molecule of Abiotic Stress -- Role of Nanomaterials in Regulating Oxidative Stress -- Plant Stress Enzymes Nanobiotechnology -- Plant Stress 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. .

2. Record Nr. UNINA9910151642203321

Autore	Jones Matthew L.
Titolo	Reckoning with Matter : Calculating Machines, Innovation, and Thinking about Thinking from Pascal to Babbage / / Matthew L. Jones
Pubbl/distr/stampa	Chicago : , : University of Chicago Press, , [2016] ©2016
Descrizione fisica	1 online resource (340 pages)
Disciplina	510.284
Soggetti	Calculators - History Computers - History Technology - History
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previously issued in print: 2016.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Frontmatter -- Contents -- Introduction -- 1. Carrying Tens: Pascal, Morland, and the Challenge of Machine Calculation -- 2. Artisans and Their Philosophers: Leibniz and Hooke Coordinate Minds, Metal, and Wood -- 3. Improvement for Profit: Calculating Machines and the Prehistory of Intellectual Property -- 4. Reinventing the Wheel: Emulation in the European Enlightenment -- 5. Teething Problems: Charles Stanhope and the Coordination of Technical Knowledge from Geneva to Kent -- 6. Calculating Machines, Creativity, and Humility from Leibniz to Turing -- Acknowledgments -- Conventions -- Abbreviations -- Notes -- References -- Index
Sommario/riassunto	From Blaise Pascal in the 1600s to Charles Babbage in the first half of the nineteenth century, inventors struggled to create the first calculating machines. All failed-but that does not mean we cannot learn from the trail of ideas, correspondence, machines, and arguments they left behind. In Reckoning with Matter, Matthew L. Jones draws on the remarkably extensive and well-preserved records of the quest to explore the concrete processes involved in imagining, elaborating, testing, and building calculating machines. He explores the writings of philosophers, engineers, and craftspeople, showing how they thought about technical novelty, their distinctive areas of expertise, and ways

they could coordinate their efforts. In doing so, Jones argues that the conceptions of creativity and making they exhibited are often more incisive-and more honest-than those that dominate our current legal, political, and aesthetic culture.