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Plant, Abiotic Stress and Responses to Climate Change ...

Abstract. Predicted global climatic change will perturb the productivity of our most valuable crops as well as detrimentally impact ecological fitness. The most important aspects of climate change with respect to these effects relate to water availability and heat stress. Over multiple decades, the plant research community has amassed a highly comprehensive understanding of the physiological mechanisms that facilitate the maintenance of productivity in response to drought, flooding, and heat ...

Climate change and abiotic stress mechanisms in plants ...

The "Plant Response to Abiotic Stress and Climate Change" Section of the journal *Plants* deals with all aspects of plant (and/or other photoautotrophs, including lichens, algae and cyanobacteria) response to abiotic stress and climate change, as regards molecular, biochemical, physiological, morphological, (ultra)structural, cellular, histo-anatomical, morphogenetic, organismic, community and ecological aspects. Both basic and applied research manuscripts are very welcome, as long as they ...

Plant Response to Abiotic Stress and Climate Change - A ...

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Major Climate Regions: Biotic & Abiotic Characteristics ...

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Climatic factors include humidity, sunlight and factors involving the climate. Edaphic refers to soil conditions, so edaphic abiotic factors include soil and geography of the land. Social factors include how the land is being used and water resources in the area. Five common abiotic factors are atmosphere, chemical elements, sunlight/temperature, wind and water.

Five Different Types of Abiotic Factors | Sciencing

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The climate-smart village programme should be judiciously piloted and up-scaled. Given the persisting high incidence of food and nutritional insecurity, and the intensifying abiotic stresses, emphasis should be placed on adaptation-led mitigation.

Climate Change and Abiotic Stress Management in India ...

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Description. In this ready reference, a global team of experts comprehensively cover molecular and cell biology-based approaches to the impact of increasing global temperatures on crop productivity. The work is divided into four parts. Following an introduction to the general challenges for agriculture around the globe due to climate change, part two discusses how the resulting increase of abiotic stress factors can be dealt with.

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Following an introduction to the general challenges for agriculture around the globe due to climate change, part two discusses how the resulting increase of abiotic stress factors can be dealt with. The third part then outlines the different strategies and approaches to address the challenge of climate change, and the whole is rounded off by a number of specific examples of improvements to crop productivity.

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Following an introduction to the general challenges for agriculture around the globe due to climate change, part two discusses how the resulting increase of abiotic stress factors can be dealt with. The third part then outlines the different strategies and approaches to address the challenge of climate change, and the whole is rounded off by a number of specific examples of improvements to ...

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Changes in plant physiology and phenology caused by climate change, although poorly understood, can alter soil microbial communities via changes in rhizodeposition (i.e., the release of resources...

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