Contents

I	for Improving Multiple Stress Tolerance in PlantsRamamurthy Mahalingam	1
2	The Impact of Enhanced Atmospheric CO ₂ Concentrations on the Responses of Maize and Soybean to Elevated Growth Temperatures	27
3	Investigating the Effect of Elevated CO ₂ in the Growth Environment of Salt-Stressed Plants Using Integrated Omic Analyses	49
	Matthaios-Émmanouil P. Papadimitropoulos and Maria I. Klapa	
1	Combination of Elevated CO ₂ Levels and Soil Contaminants' Stress in Wheat and Rice	7 1
5	Tolerance to Combined Stress of Drought and Salinity in Barley Imrul Mosaddek Ahmed, Umme Aktari Nadira, Noreen Bibi, Guoping Zhang and Feibo Wu	93
5	Combined Abiotic Stress in Legumes	123
7	Interactive Effects Between Ozone and Drought: Sorrow or Joy? Sacha Bohler, Ann Cuypers and Jaco Vangronsveld	147

vi	ii	Contents

8	Effect of High Temperature and Water Stress on Groundnuts Under Field Conditions	159
9	The Response of Plants to Simultaneous Biotic and Abiotic Stress	181
10	Impact of Concurrent Drought Stress and Pathogen Infection on Plants Prachi Pandey, Ranjita Sinha, Kirankumar S. Mysore and Muthappa Senthil-Kumar	203
11	Combined Stresses in Forests Patrick Mitchell, Tim Wardlaw and Libby Pinkard	223
12	The Interactive Effects of Drought and Herbivory on Ecophysiology of Trees Sheel Bansal	245
Index		261