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Nota di contenuto	1. Visible Injury, CO2 Assimilation and PSII Photochemistry of Eucaliptus Plants in Response to Boron Stress -- 2. Vanadium in the Environment and its Bioremediation -- 3. Nitrogen pollution, Plants and Human health -- 4. Evaluation of Wild Halophytes of Aralo-Caspian flora towards Soil Restoration and Food Security Improvement -- 5. Nickel Metal Uptake and Metal-Specific Stress Alleviation in a Perennial Desert Grass Cenchrus ciliaris -- 6. Taming Food Security through Wastewater Irrigation Practices -- 7. The potentiality of wastewater use for irrigation in Turkey -- 8. Plant secondary metabolites: deleterious effects, remediation -- 9. Genotoxic Effects of Boron on Chickpea (Cicer arietinum L.) and Tomato (Solanum lycopersicum L.) -- 10. The Method of Dynamic Factors in Bioindication and Phytoremediation -- 11. Plant-Pollutant Interaction -- 12. Plants for remediation: uptake, translocation and transformation of organic pollutants -- 13. Potential

Use of Licorice in Phytoremediation of Salt Affected Soils -- 14. Effect of Nutrient Enrichment on Metal Accumulation and Biological Responses of Duckweed (Lemnaceae) Spread in Turkey -- 15. Temporal variation of biological oxygen demand (BOD), chemical oxygen demand (COD), and pH values in surface waters of Gölcük-Kocaeli, Turkey -- 16. Ambient Ozone Levels in the Eastern Mediterranean Region and Assessment of its Effect on the Forested Mountain Areas of Southern Turkey -- 17. Determination of environmental activities and perspectives of plants: a field research in Kayseri -- 18. An approach for sustainable management of the Balklgol Lakes, Turkey -- 19. Kinetics and Mechanisms of Biosorption of Copper Ion onto Waste Yeast (S. Cerevisiae) -- 20. Effects of Air Pollution on Urban Plants: Nezahat Gökyiit Botanical Garden.

Sommario/riassunto

Environmental remediation technology has become a rapidly emerging branch of science in the 21st century. This technology is helping many branches of life sciences in solving the problems. This book therefore presents a holistic view of the complex and dynamic responses of our biodiversity to environmental pollution and their remediation strategies, in particular plant eco physiological adaptations which vary from species to species. The topics in this book are discussed to enlighten adaptation strategies to circumvent the negative impacts of polluting factors based on a large number of observations. The growing number of findings in this field are producing several applications in the fields of remediation of polluting factors in the environment. The book discusses the topics like; plant-pollutant interactions, the visible injury in response to boron stress and its genotoxic effects, bioremediation of vanadium, nitrogen pollution, plants and human health, role of halophytes towards soil restoration, nickel uptake, taming food security through wastewater irrigation and its potentiality, deleterious effects and remediation of secondary metabolites in forages, biosorption of copper using waste yeast, liquorice in the remediation of saline soils, role of duckweed in metal accumulation, temporal variations in different environmental parameters, urban plants and air pollution, bioindication and phytoremediation, plants for remediation of organic pollutants. The book also enlightens the research gaps which need to be bridged to achieve larger goals concerning the applications of remediation technology.