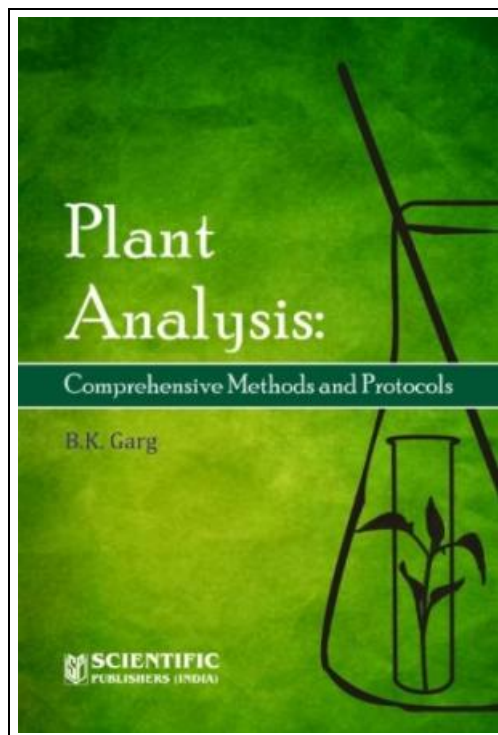


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Scientific Publishers, 2012. Hardcover. Book Condition: New. The book `Plant Analysis: Comprehensive Methods and Protocols` is a complete laboratory manual for analytical methods and techniques in the field of Agriculture, Plant Physiology, Biochemistry and related Plant Sciences. Right from nutrient analysis in plants, it covers estimations of macromolecules, such as amino acids, proteins, nucleic acids and metabolites of fatty acid metabolism. Protocols for the assay of various enzymes of nitrogen metabolism, ammonia assimilation, photosynthetic CO₂-fixation, reactive oxygen species, carbohydrate, phosphorus and energy metabolism have been elucidated in the book. Special emphasis has also been given to techniques on specific topics such as Electrophoresis, Molecular Biology, Histo-enzymology, Symbiotic Nitrogen Fixation and assay of plant growth hormones. Thus the present book is one stop solution for all important techniques and analytical methods for students and research workers engaged in plant sciences and agricultural research. Contents: 1 General Guidelines for Experimentation and Plant Analysis 2 Digestion of Plant Samples for Nutrient Analysis 3 Determination of Plant Nutrients 4 Leaf Pigments and Chlorophyll Fluorescence 5 Analysis of Organic Molecules in Plant Tissues 6 pH and Buffer Solutions 7 Enzymes: Extraction and Assay 8 Assay of Some Key Enzymes of Plants 9 Photosynthetic Enzymes and Important Metabolites 10 Enzymes of Infected Plants and Parasites 11 Disease Resistance Related Estimations 12 Growth Indices and Leaf Area 13 Measurement of Photosynthesis, Respiration and Transpiration 14 Stress Indicators in Plants 15 Determination of Plant Water Status 16 Aerenchyma: Formation, Functions and Measurement 17 Electrophoresis 18 Molecular Biology Techniques 19 Determination of Polyamines and Phenolics by TLC and HPLC Techniques 20 Histochemistry of Enzymes and Important Metabolites 21 Methods of Root Studies 22 Symbiotic Nitrogen Fixation Related Estimations in Plants 23 Assay of Growth Hormones Appendix (1-12) Subject Index Printed Pages: 571.



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