

# *Plant Physiology*

*A Treatise*

*Edited by*

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# Plant Physiology A Treatise Volume 2 Plants

**Patrick Vollmar**



## **Plant Physiology A Treatise Volume 2 Plants:**

*Respiration and Crop Productivity* Jeffrey S. Amthor, 2012-12-06 Respiration is a large and important component of the carbon economy of crops There are already several good books dealing with the biochemistry and physiology of plant respiration but there are none I know of that are devoted to the relationship between respiration and crop productivity although this relationship is more and more frequently being studied with both experiment and simulation Crop physiology books do cover respiration of course but the treatment is limited The purpose of the present book is to fill this void in the literature The approach taken here is to use the popular two component functional model whereby respiration is divided between growth and maintenance components After thoroughly reviewing the literature I came to the conclusion that at present this is the most useful means of considering respiration as a quantitative component of a crop's carbon economy This functional distinction is used as the framework for describing respiration and assessing its role in crop productivity Discussions and critiques of the biochemistry and physiology of respiration serve primarily as a means of more fully understanding and describing the functional approach to studying crop respiration It is assumed that the reader of this book is familiar with the fundamentals of plant physiology and biochemistry The research worker in crop physiology should find this an up to date summary of crop respiration and the functional model of respiration This book is not however a simple review of existing data Chemisches Zentralblatt, 1965 **Chilling Injury of Horticultural Crops** Chien Yi Wang, 1990-03-20 This book provides readers with a historical background as well as current knowledge and theories on chilling injury This exciting volume covers a broad scope of topics from basic concepts to practical applications This work also brings together discussions on various aspects of chilling injury It gives basic information which describes biochemical changes molecular basis and concepts of chilling injury Additionally it describes the development of chilling injury in crops of tropical subtropical and temperate origin This interesting resource places emphasis on assessment prevention and reduction of chilling injury It also provides an extensive collection of references at the end of each chapter which offers the reader an abundance of resources for further detailed study Researchers and students in plant physiology horticulture and agronomy will find this book most valuable *List of Library Books and Periodicals* Montreal. Pulp and Paper Research Institute of Canada. Library, 1967 **Subject Guide to Books in Print**, 1993 **The American Catalogue**, 1896 **The American Catalog**, 1896 **The Sacred Books of the East**, 1897 Reactions and Processes, 1980 **The Handbook of Environmental Chemistry: pt. A-C. Reactions and processes** O. Hutzinger, 1980 V 1 The natural environment and the biogeochemical cycles v 2 Reactions and processes **Reactions and Processes** G.L. Baughman, 1980-09 With contributions by numerous experts *Guide to Sources for Agricultural and Biological Research* J. Richard Blanchard, Lois Farrell, 2023-07-28 Agronomy Robert Mower Hagan, Howard Ross Haise, 1967 **American Book Publishing Record**, 1973 Books in Print Supplement, 1994 Landwirtschaftliches Zentralblatt, 1961 Scientific and Technical Books

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