

Advances in Photosynthesis and Respiration 42
Including Bioenergy and Related Processes

Kouki Hikosaka
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Canopy Photosynthesis: From Basics to Applications

 Springer

Canopy Photosynthesis Applications Advances Respiration

David T. Hanson, Steven K. Rice



Canopy Photosynthesis Applications Advances Respiration:

Canopy Photosynthesis: From Basics to Applications Kouki Hikosaka, Ülo Niinemets, Niels P.R. Anten, 2015-12-17 The last 30 years has seen the development of increasingly sophisticated models that quantify canopy carbon exchange These models are now essential parts of larger models for prediction and simulation of crop production climate change and regional and global carbon dynamics There is thus an urgent need for increasing expertise in developing use and understanding of these models This in turn calls for an advanced yet easily accessible textbook that summarizes the canopy science and introduces the present and the future scientists to the theoretical background of the current canopy models This book presents current knowledge of functioning of plant canopies models and strategies employed to simulate canopy function and the significance of canopy architecture physiology and dynamics in ecosystems landscape and biosphere

Advances in Plant Ecophysiology Techniques Adela M. Sánchez-Moreiras, Manuel J. Reigosa, 2018-08-17 This handbook covers the most commonly used techniques for measuring plant response to biotic and abiotic stressing factors including in vitro and in vivo bioassays the study of root morphology photosynthesis pigment content net photosynthesis respiration fluorescence and thermoluminescence and water status thermal imaging the measurement of oxidative stress markers flow cytometry for measuring cell cycle and other physiological parameters the use of microscope techniques for studying plant microtubules programmed cell death last generation techniques metabolomics proteomics SAR QSAR hybridization methods isotope techniques for plant and soil studies and the measurement of detoxification pathways volatiles soil microorganisms and computational biology

River Basin Environment: Evaluation, Management and Conservation Fusheng Li, Yoshio Awaya, Koji Kageyama, Yongfen Wei, 2022-08-31 This book provides updated and comprehensive information on the evaluation of the river basin environment along with its management and conservation The chapters collected the latest cutting edge research achievements in vegetation function evaluation remote sensing monitoring and analysis water quality evaluation and control water and wastewater treatment soil remediation forest resource management microbial disease diagnosis and more the key components that link directly with the safety security and sustainability of river basin environment This book emphasizes the important aspects for better and more effective evaluation management and conservation of the river basin environment the foundation for its sustainable utilization and development the foundation for achieving water and food security and the United Nations SDGs for No Poverty 1 Zero Hunger 2 and Clean Water and Sanitation 6 as well as Affordable and Clean Energy 7 Sustainable Cities and Communities 11 Climate Action 13 Life below Water 14 and Life on Land 15 This book will benefit the research community and environmental education It will prove useful to students water and forest resource managers hydrologists and all those engaged or interested in any aspect of evaluation management and conservation of the river basin environment The book also has the potential to inform multi regional and sectoral policies in all regions of the world and contribute to sustainable development solutions through better management of water soil and

vegetation resources **Microbial BioEnergy: Hydrogen Production** Davide Zannoni, Roberto De Philippis, 2014-07-08

The central theme of this book **Microbial BioEnergy Hydrogen Production** is focused on the biological machinery that microorganisms use to produce hydrogen gas. The book summarizes the achievements over the past decade in the biochemistry, structural and molecular biology, genomics and applied aspects of microbial H₂ production, including microbial fuel cells (MFC) by phototrophs such as purple sulfur and non-sulfur bacteria *Thiocapsa* spp, *Rhodobacter* and *Rhodospirillum rubrum* spp, microalgae *Chlamydomonas* and cyanobacteria *Anabaena* spp, along with anaerobes and thermophiles such as *Caldicellulosiruptor* and *Thermotoga*. This is the first book of this series entirely devoted to microbial biohydrogen production and is intended to be a precious source of information for PhD students, researchers and undergraduates from disciplines such as microbiology, biochemistry, biotechnology, photochemistry and chemical engineering interested in basic and applied sciences.

Non-Photochemical Quenching and Energy Dissipation in Plants, Algae and Cyanobacteria Barbara Demmig-Adams, Gyozo Garab, William Adams III, Govindjee, 2014-11-22. Harnessing the sun's energy via photosynthesis is at the core of sustainable production of food, fuel and materials by plants, algae and cyanobacteria. Photosynthesis depends on photoprotection against intense sunlight, starting with the safe removal of excess excitation energy from the light harvesting system, which can be quickly and non-destructively assessed via non-photochemical quenching of chlorophyll fluorescence (NPQ). By placing NPQ into the context of whole organism function, this book aims to contribute towards identification of plant and algal lines with superior stress resistance and productivity. By addressing agreements and open questions concerning photoprotection's molecular mechanisms, this book contributes towards development of artificial photosynthetic systems. A comprehensive picture from single molecules to organisms in ecosystems and from leading experts' views to practical information for non-specialists on NPQ measurement and terminology is presented.

Climate Change Rajeev Kumar, Dasari Sreekanth, P.S. Basavaraj, 2025-09-30. **Climate Change Impact of Elevated CO₂ and Temperature on Crops, Weeds and Soil Microbes** is a comprehensive and timely volume that explores the profound effects of climate change, specifically elevated CO₂ and temperature, on plant physiology, crop productivity, weed dynamics and soil microbial interactions. The primary objective of this book is to provide a detailed and up-to-date overview of the physiological, biochemical and molecular mechanisms governing crop responses to elevated CO₂ and temperature. It also examines the impact on weeds and soil microbial communities, highlighting potential adaptation and mitigation strategies for sustainable agriculture. Readers will gain valuable insights into the latest methodologies and scientific advancements in this field. This volume offers in-depth coverage of key topics including: Impact of elevated CO₂ and temperature on the physiology, yield and quality of major crops; Responses of cereals, pulses, oilseeds and vegetables to elevated CO₂ and temperature; Nutritional and quality changes in food crops under climate change scenarios; Growth dynamics and physiological responses of weeds under elevated CO₂ and temperature; Role of soil microbes in plant health.

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Genomics of Chloroplasts and Mitochondria Ralph Bock, Volker Knoop, 2012-06-05 The past decade has witnessed an explosion of our knowledge on the structure coding capacity and evolution of the genomes of the two DNA containing cell organelles in plants chloroplasts plastids and mitochondria Comparative genomics analyses have provided new insights into the origin of organelles by endosymbioses and uncovered an enormous evolutionary dynamics of organellar genomes In addition they have greatly helped to clarify phylogenetic relationships especially in algae and early land plants with limited morphological and anatomical diversity This book written by leading experts summarizes our current knowledge about plastid and mitochondrial genomes in all major groups of algae and land plants It also includes chapters on endosymbioses plastid and mitochondrial mutants gene expression profiling and methods for organelle transformation The book is designed for students and researchers in plant molecular biology taxonomy biotechnology and evolutionary biology

Photosynthesis in Bryophytes and Early Land Plants David T. Hanson, Steven K. Rice, 2013-10-21 Bryophytes which are important constituents of ecosystems globally and often dominate carbon and water dynamics at high latitudes and elevations were also among the pioneers of terrestrial photosynthesis Consequently in addition to their present day ecological value modern representatives of these groups contain the legacy of adaptations that led to the greening of Earth This volume brings together experts on bryophyte photosynthesis whose research spans the genome and cell through whole plant and ecosystem function and combines that with historical perspectives on the role of algal bryophyte and vascular plant ancestors on terrestrialization of

the Earth The eighteen well illustrated chapters reveal unique physiological approaches to achieving carbon balance and dealing with environmental limitations and stresses that present an alternative yet successful strategy for land plants

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