

# Ecological Strategies of Xylem Evolution

Sherwin Carlquist



# Ecological Strategies Of Xylem Evolution

**J Ma**



## **Ecological Strategies Of Xylem Evolution:**

Ecological Strategies of Xylem Evolution Sherwin John Carlquist, 1975-01-01 Ferns Pteridophytes other than ferns Fossil pteridophytes Stelar theory Cycads and ginkgo Conifers and taxads Monocotyledons gymnocytes Vesselless dicotyledons Dicotyledons with primitive vessels Gnetales Specialization in dicotyledonous wood Sieve elements extraxylary mechanical tissue

**Functional and Ecological Xylem Anatomy** Uwe Hacke, 2015-04-20 The book will describe the xylem structure of different plant groups and will put the findings in a physiological and ecological context For instance when differences in vessel diameter are featured then there will be an explanation why this matters for water transport efficiency and safety from cavitation The focus is on the hydraulic function of xylem although mechanical support and storage will also be covered Featured plant groups include ferns which only have primary xylem conifers tracheid based xylem lianas extremely wide and long vessels drought adapted shrubs as well as the model systems poplar and grapevine The book chapters will draw on the expertise and cutting edge research of a diversified group of internationally known researchers working in different anatomical and physiological sub disciplines Over the last two decades much progress has been made in understanding how xylem structure relates to plant function Implications for other timely topics such as drought induced forest dieback or the regulation of plant biomass production will be discussed

**Systematics and Evolution of the Ranunculiflorae** Uwe Jensen, Joachim W. Kadereit, 2012-12-06 The volume presents current ideas about the systematics and evolution of the Ranunculiflorae and most of its constituent families A strong effort has been made to integrate DNA and morphological anatomical etc evidence and new ideas about the origin and phylogeny of the entire group as well as the Berberidaceae Lardizabalaceae Ranunculaceae and Papaveraceae are arrived at

**The Evolution of Plant Physiology** Alan R. Hemsley, Imogen Poole, 2004-02-05 Coupled with biomechanical data organic geochemistry and cladistic analyses utilizing abundant genetic data scientific studies are revealing new facets of how plants have evolved over time This collection of papers examines these early stages of plant physiology evolution by describing the initial physiological adaptations necessary for survival as upright structures in a dry terrestrial environment The Evolution of Plant Physiology also encompasses physiology in its broadest sense to include biochemistry histology mechanics development growth reproduction and with an emphasis on the interplay between physiology development and plant evolution Contributions from leading neo and palaeo botanists from the Linnean Society Focus on how evolution shaped photosynthesis respiration reproduction and metabolism Coverage of the effects of specific evolutionary forces variations in water and nutrient availability grazing pressure and other environmental variables

*Patterns of evolution, as illustrated by the fossil record*, 1977-01-15 Patterns of evolution as illustrated by the fossil record

**Advances in Ecological Research**, 1983-06-23 Advances in Ecological Research

*Climate Change, Ecology and Systematics* Trevor R. Hodgkinson, Michael B. Jones, Stephen Waldren, John A. N. Parnell, 2011-04-28 Climate change has shaped life in the past and will continue to do so in

the future Understanding the interactions between climate and biodiversity is a complex challenge to science With contributions from 60 key researchers this book examines the ongoing impact of climate change on the ecology and diversity of life on earth It discusses the latest research within the fields of ecology and systematics highlighting the increasing integration of their approaches and methods Topics covered include the influence of climate change on evolutionary and ecological processes such as adaptation migration speciation and extinction and the role of these processes in determining the diversity and biogeographic distribution of species and their populations This book ultimately illustrates the necessity for global conservation actions to mitigate the effects of climate change in a world that is already undergoing a biodiversity crisis of unprecedented scale

**Progress in Botany / Fortschritte der Botanik** Heinz Ellenberg, Karl Esser, Hermann Merxmüller, Eberhard Schnepf, Hubert Ziegler, 2012-12-06

**Tropical Dry Forests in the Americas** Arturo Sanchez-Azofeifa, Jennifer S. Powers, Geraldo W. Fernandes, Mauricio Quesada, 2013-08-29 Under threat from natural and human disturbance tropical dry forests are the most endangered ecosystem in the tropics yet they rarely receive the scientific or conservation attention they deserve In a comprehensive overview Tropical Dry Forests in the Americas Ecology Conservation and Management examines new approaches for data sampling and

**Sieve Elements** H.-D. Behnke, R.D. Sjolund, 2012-12-06 This detailed overview of the structure of the sieve elements of the major plant groups from algae to flowering plants includes extant and extinct groups revealing both common and divergent solutions to the problem of long distance assimilate transport

*New Perspectives in Wood Anatomy* P. Baas, 2013-03-09 On the occasion of the 50th Anniversary of the International Association of Wood Anatomists several symposia were held during the 13th International Botanical Congress in Sydney August 1981 Extended versions of most of the invited papers presented there and some additional papers on aspects which could not be included in the congress program constitute the contents of this book which intentionally received the pretentious title *New Perspectives in Wood Anatomy* To some readers it may seem a paradox that under this heading papers on a diversity of partly traditional wood anatomical subjects are assembled even including two with a historical emphasis However a study of the history of wood anatomy and of how students of that discipline joined forces in an international association brings to light many facts and views which deserve the attention of present day and future wood scientists as a potential source of inspiration for their research and organisational work

Woody Plant Communities T.T. Kozlowski, 2012-12-02 *Water Deficits and Plant Growth Volume VI* Woody Plant Communities focuses on the water relations of woody plants in a community context Organized into eight chapters this book begins with a quantitative overview of sources of water available to woody plants Separate chapters follow that discuss the water relations of coniferous temperate hardwood and tropical and subtropical forests and woodlands apple and citrus orchards closely related woody plants and tea plantations For each of these plant communities emphasis is placed on hydrological cycles water use and transpiration absorption of water and effects of environmental factors on soil and plant water balance The

effects of water deficits on physiological processes vegetative and reproductive growth yield of harvested products drought resistance and cultural practices affecting plant water balance and yield are also emphasized in this book This volume will be useful to both researchers and those involved in the practice of growing woody plants for wood and fruit crops and for esthetic values *An Introduction to Plant Structure and Development* Charles B. Beck, 2005-10-27 An Introduction to Plant

Structure and Development incorporates basic knowledge of plant anatomy with contemporary information and ideas about the development of structure and form **Jatropha, Challenges for a New Energy Crop** Bir Bahadur, Mulpuri Sujatha, Nicolas Carels, 2012-12-14 *Jatropha curcas* or Physic Nut is a small tree bush plant that produces fruits under tropical climate The fruits contained seed that are 40% oil rich This oil is excellent for biodiesel The bush is a now new coming crop because it may cope with harsh environmental conditions such as semi aridity and poor land It is considered as one alternative for climate mitigation that does not compete with arable land normally dedicated to food crop and can be used to regain degraded land or fight desertification This bush has been considered seriously by the international community only recently 2006 2008 but worldwide scientists did an outstanding job to draw *Jatropha* out of its semi wild status and bring it on the industrial scene Problems remains but we have now a comprehensive picture of this crop and almost every technological challenged were addressed From now the job will have to concentrate on breeding in order to domesticate this species Therefore it is the right time to sum up worldwide contributions in a comprehensive book with a breeding looking to improve the chance of this plant to stabilize as a crop and to fulfil with the expectations that humans invested in it A book with this perspective will help international community to give a step on The book will be a broad and comprehensive look on *Jatropha* until the details since the book is being contributed by international experts worldwide that have already published works in the international press of Science Illustrations tables geographic maps GPS location etc are added by each contributors according to the feeling they have concerning what they think their contribution should be **Past**

**Environments of Mexico** Rosalía Guerrero-Arenas, Eduardo Jiménez-Hidalgo, 2024-04-01 Mexico is a biodiverse country The dynamics of environments from Mexico played a crucial role in the history of North American biota This book analyzes the paleoenvironmental conditions using several biological groups and various methods This book also demonstrates how this information is specifically used to elucidate Mexico s past environments and habitats terrestrial freshwater and marine This book fills an existing editorial gap since much of the information is dispersed in several bibliographic sources The authors are active paleontologists in diverse Mexican universities and research centers Their research activities contribute to the knowledge of the Mexican biota through geologic time *Plant Stems*, 1995-07-19 Stems of various sizes and shapes are involved in most of the organic processes and interactions of plants ranging from support transport and storage to development and protection The stem itself is a crucially important intermediary it links above and below ground organs connecting roots to leaves An international team of leading researchers vividly illustrate that stems are more than pipes more

than simple connecting and supporting structures rather stems are critical anatomically distinct structures of enormous variability It is to an unappreciated extent this variability that underpins both the diversity and the success of plants in myriad ecosystems Plant Stems will be a valuable resource on form function relationships for researchers and graduate level students in ecology evolutionary biology physiology development genetics agricultural sciences and horticulture as they unravel the mechanisms and processes that allow organisms and ecosystems to function Syntheses of structural physiological and ecological functions of stems Multiple viewpoints on how stem structure relates to performance Highlights of major areas of plant biology long neglected *Applied Stratigraphy* Eduardo A.M. Koutsoukos,2007-08-16 Stratigraphy has come to be indispensable to nearly all branches of the earth sciences assisting such endeavors as charting the course of evolution understanding ancient ecosystems and furnishing data pivotal to finding strategic mineral resources This book focuses on traditional and innovative stratigraphy techniques and how these can be used to reconstruct the geological history of sedimentary basins and in solving manifold geological problems and phenomena *Terrestrial Ecosystems Through Time* Anna K. Behrensmeyer,1992-08-15 Breathtaking in scope this is the first survey of the entire ecological history of life on land from the earliest traces of terrestrial organisms over 400 million years ago to the beginning of human agriculture By providing myriad insights into the unique ecological information contained in the fossil record it establishes a new and ambitious basis for the study of evolutionary paleoecology of land ecosystems A joint undertaking of the Evolution of Terrestrial Ecosystems Consortium at the National Museum of Natural History Smithsonian Institution and twenty six additional researchers this book begins with four chapters that lay out the theoretical background and methodology of the science of evolutionary paleoecology Included are a comprehensive review of the taphonomy and paleoenvironmental settings of fossil deposits as well as guidelines for developing ecological characterizations of extinct organisms and the communities in which they lived The remaining three chapters treat the history of terrestrial ecosystems through geological time emphasizing how ecological interactions have changed the rate and tempo of ecosystem change the role of exogenous forcing factors in generating ecological change and the effect of ecological factors on the evolution of biological diversity The six principal authors of this volume are all associated with the Evolution of Terrestrial Ecosystems program at the National Museum of Natural History Smithsonian Institution **Encyclopedia of Forest Sciences** Julian Evans,John A. Youngquist,2004-04-02 A combination of broad disciplinary coverage and scientific excellence the Encyclopedia of Forest Sciences will be an indispensable addition to the library of anyone interested in forests forestry and forest sciences Packed with valuable insights from experts all over the world this remarkable set not only summarizes recent advances in forest science techniques but also thoroughly covers the basic information vital to comprehensive understanding of the important elements of forestry The Encyclopedia of Forest Sciences also covers relevant biology and ecology different types of forestry e g tropical forestry and dryland forestry scientific names of trees and shrubs and the applied economic and social aspects of

forest management Valuable key features further enhance the utility of this Encyclopedia as an exceptional reference tool Also available online via ScienceDirect featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information pricing options and availability visit [www.info.sciencedirect.com](http://www.info.sciencedirect.com) Edited and written by a distinguished group of editors and contributors Well organized encyclopedic format provides concise readable entries easy searches and thorough cross references Illustrative tables figures and photographs in every entry produced in full color Comprehensive glossary defines new and important terms Complete up to date coverage of over 60 areas of forest sciences sure to be of interest to scientists students and professionals alike Editor in Chief is the past president of the International Union of Forestry Research Organizations the oldest international collaborative forestry research organization with over 15 000 scientists from 100 countries

**Vascular Transport in Plants** N. Michelle Holbrook, Maciej A. Zwieniecki, 2011-09-06

Vascular Transport in Plants provides an up to date synthesis of new research on the biology of long distance transport processes in plants It is a valuable resource and reference for researchers and graduate level students in physiology molecular biology physiology ecology ecological physiology development and all applied disciplines related to agriculture horticulture forestry and biotechnology The book considers long distance transport from the perspective of molecular level processes to whole plant function allowing readers to integrate information relating to vascular transport across multiple scales The book is unique in presenting xylem and phloem transport processes in plants together in a comparative style that emphasizes the important interactions between these two parallel transport systems Includes 105 exceptional figures Discusses xylem and phloem transport in a single volume highlighting their interactions Syntheses of structure function and biology of vascular transport by leading authorities Poses unsolved questions and stimulates future research Provides a new conceptual framework for vascular function in plants

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