

1. Record Nr.	UNINA9910808945503321
Titolo	Autoecology and ecophysiology of woody shrubs and trees : concepts and applications // edited by Ratikanta Maiti, Humberto Gonzalez Rodriguez, Natalya Sergeevna Ivanova
Pubbl/distr/stampa	Chichester, England : , : Wiley Blackwell, , 2016 ©2016
ISBN	1-119-10447-5 1-119-10446-7
Descrizione fisica	1 online resource (456 pages)
Collana	THEi Wiley ebooks.
Disciplina	635.976
Soggetti	Woody plants Woody plants - Physiology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Title Page; Copyright; Table of Contents; Preface; Bibliography; List of contributors; Chapter 1: Background; 1.1 A definition of autoecology; 1.2 A definition of ecophysiology; 1.3 Environment; 1.4 Solar radiation; 1.5 Solar radiation and vegetation; 1.6 Light requirement of tree species; 1.7 Photomorphogenesis and photoperiodism; 1.8 Photosynthesis; 1.9 Temperature; 1.10 Water relations; 1.11 Plant nutrients; 1.12 Role of nutrients in plant life; 1.13 Plant factors; 1.14 Respiration; 1.15 Phenology and ecology; 1.16 Effect of drought stress; 1.17 Ecological plasticity; 1.18 Productivity BibliographyPart I; Chapter 2: Autoecology; 2.1 Background; 2.2 Temperate region; 2.3 Tropical rainforest; 2.4 Semiarid and arid lands; 2.5 Alpine region; Bibliography; Chapter 3: Vegetation and biodiversity; 3.1 Introduction; 3.2 Climate; 3.3 Hydrology; Bibliography; Chapter 4: Case study: A trip to regions of biodiversity and rainforest in Riviera Maya; 4.1 Introduction; 4.2 Visit to dolphin territory, playground of dolphins; 4.3 Zones of pelicans and sea ducks; 4.4 Zones of sea dives and swimming; 4.5 Return journey through Sian Ka'an reserve forest; 4.6 Food arrangement 4.7 Visit to Chichen Itza - Merida, Yucatan Peninsula4.8 Visit to

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Chapter 9: Phenology, morphology and variability in pollen viability of four woody species (*Cordia boissieri*, *Parkinsonia texana*, *P. aculeata* and *Leucophyllum frutescens*) exposed to environmental temperature, north-eastern Mexico 9.1 Background; 9.2 Pollen viability; 9.3 Methodology; 9.4 Results and discussion; 9.5 Conclusions; Bibliography; Chapter 10: Pollen biology and plant productivity: A review; 10.1 Introduction; 10.2 Materials, methods and scope of the study; 10.3 Elaboration of the review; 10.4 Pollen morphology; 10.5 Pollen dispersal; 10.6 Pollen germination
10.7 Pollen load, pollination and seed production
