

# Resource Competition and Community Structure

DAVID TILMAN

MONOGRAPHS IN POPULATION BIOLOGY • 17

# Resource Competition Community Structu

**Mark E. Patzkowsky, Steven M. Holland**

## **Resource Competition Community Structu:**

**Resource Competition and Community Structure** David Tilman, 2020-03-31 One of the central questions of ecology is why there are so many different kinds of plants and animals Here David Tilman presents a theory of how organisms compete for resources and the way their competition promotes diversity Developing Hutchinson's suggestion that the main cause of diversity is the feeding relations of species this book builds a mechanistic resource based explanation of the structure and functioning of ecological communities In a detailed analysis of the Park Grass Experiments at the Rothamsted Experimental Station in England the author demonstrates that the dramatic results of these 120 years of experimentation are consistent with his theory as are observations in many other natural communities The consumer resource approach of this book is applicable to both animal and plant communities but the majority of Professor Tilman's discussion concentrates on the structure of plant communities All theoretical arguments are developed graphically and formal mathematics is kept to a minimum The final chapters of the book provide some testable speculations about resources and animal communities and explore such problems as the evolution of super species the differences between plant and animal community diversity patterns and the cause of plant succession Methods for Risk Assessment of Transgenic Plants Klaus Ammann, Yolande Jacot, Gösta Kjellsson, Vibeke Simonsen, 1999-10-25 The Berne Symposium invited leading scientists of risk assessment research with transgenic crops on an international level in order to enhance the discussion regulators and members of the biotech industry The goal was to determine the status quo and also to make progress in times of a first global spread of transgenes in agrosystems about risk assessment The dialogue between scientists regulators and industry representatives also revealed some lacunes of risk assessment research which will have to be filled in the future We still lack longterm experience for which we will have to collect data with scientific precision The symposium concluded asking for a risk oriented longterm monitoring system based on critical science and hard data This volume presents the discussion sessions as well as the scientific contributions and thus mirrors the risk assessment debate based not on exaggerated negative scenarios but on critical science and hard data Resource Competition James P. Grover, 2012-12-06 As one of the most quantitative of ecological subdisciplines resource competition is an important central area of ecology Recently research into this area has increased dramatically and resource competition models have become more complex The characterisation of this phenomenon is therefore the aim of this book Resource Competition seeks to identify the unifying principles emerging from experimental and theoretical approaches as well as the differences between organisms illustrating that greater knowledge of resource competition will benefit human and environmental welfare This book will serve as an indispensable guide to ecologists evolutionary biologists and environmental managers and all those interested in resource competition as an emerging discipline *Stratigraphic Paleobiology* Mark E. Patzkowsky, Steven M. Holland, 2022-12-22 Whether the fossil record should be read at face value or whether it presents a distorted view of the history of life is an argument seemingly as

old as many fossils themselves In the late 1700s Georges Cuvier argued for a literal interpretation but in the early 1800s Charles Lyell's gradualist view of the earth's history required a more nuanced interpretation of that same record To this day the tension between literal and interpretive readings lies at the heart of paleontological research influencing the way scientists view extinction patterns and their causes ecosystem persistence and turnover and the pattern of morphologic change and mode of speciation With *Stratigraphic Paleobiology* Mark E Patzkowsky and Steven M Holland present a critical framework for assessing the fossil record one based on a modern understanding of the principles of sediment accumulation Patzkowsky and Holland argue that the distribution of fossil taxa in time and space is controlled not only by processes of ecology evolution and environmental change but also by the stratigraphic processes that govern where and when sediment that might contain fossils is deposited and preserved The authors explore the exciting possibilities of stratigraphic paleobiology and along the way demonstrate its great potential to answer some of the most critical questions about the history of life How and why do environmental niches change over time What is the tempo and mode of evolutionary change and what processes drive this change How has the diversity of life changed through time and what processes control this change And finally what is the tempo and mode of change in ecosystems over time

**Foundations of Ecology II** Thomas E. Miller, Joseph Travis, 2022-09-06 For three decades *Foundations of Ecology* edited by Leslie A Real and James H Brown has served as an essential primer for graduate students and practicing ecologists giving them access to the classic papers that laid the foundations of modern ecology alongside commentaries by noted ecologists Ecology has continued to evolve and ecologists Thomas E Miller and Joseph Travis offer here a freshly edited guide for a new generation of researchers The period of 1970 to 1995 was a time of tremendous change in all areas of this discipline from an increased rigor for experimental design and analysis and the reevaluation of paradigms to new models for understanding to theoretical advances *Foundations of Ecology II* includes facsimiles of forty six papers from this period alongside expert commentaries that discuss a total of fifty three key studies addressing topics of diversity predation complexity competition coexistence extinction productivity resources distribution and abundance The result is more than a catalog of historic firsts this book offers diverse perspectives on the foundational papers that led to today's ecological work

**Coexistence in Ecology** Mark A. McPeck, 2022-02-08 A comprehensive framework for understanding species coexistence Coexistence is the central concept in community ecology but an understanding of this concept requires that we study the actual mechanisms of species interactions Coexistence in Ecology examines the major features of these mechanisms for species that coexist at different positions in complex food webs and derives empirical tests from model predictions Exploring the various challenges species face Mark McPeck systematically builds a model food web beginning with an ecosystem devoid of life and then adding one species at a time With the introduction of each new species he evaluates the properties it must possess to invade a community and quantifies the changes in the abundances of other species that result from a successful invasion McPeck

continues this process until he achieves a multitrophic level food web with many species coexisting at each trophic level from omnivores mutualists and pathogens to herbivores carnivores and basic plants He then describes the observational and experimental empirical studies that can test the theoretical predictions resulting from the model analyses Synthesizing decades of theoretical research in community ecology Coexistence in Ecology offers new perspectives on how to develop an empirical program of study rooted in the natural histories of species and the mechanisms by which they actually interact with one another

**Tropical Forest Community Ecology** Walter Carson, Stefan Schnitzer, 2011-08-31 Historically tropical ecology has been a science often content with descriptive and demographic approaches which is understandable given the difficulty of studying these ecosystems and the need for basic demographic information Nonetheless over the last several years tropical ecologists have begun to test more sophisticated ecological theory and are now beginning to address a broad array of questions that are of particular importance to tropical systems and ecology in general Why are there are so many species in tropical forests and what mechanisms are responsible for the maintenance of that vast species diversity What factors control species coexistence Are there common patterns of species abundance and distribution across broad geographic scales What is the role of trophic interactions in these complex ecosystems How can these fragile ecosystems be conserved Containing contributions from some of the world s leading tropical ecologists Tropical Forest Community Ecology provides a summary of the key issues in the discipline of tropical ecology Includes contributions from some of the world s leading tropical ecologists Covers patterns of species distribution the maintenance of species diversity the community ecology of tropical animals forest regeneration and conservation of tropical ecosystems

**Natural Systems** Markus Eichhorn, 2016-02-18 Organised into four sections this text discusses the organisation of the living world Links Ecology Biodiversity and Biogeography Bridges modern and conventional Ecology Builds sequentially from the concept and importance of species through patterns of diversity to help consider global patterns of biogeography Uses real data sets to help train in essential skills

*Natural Resource Management - Physical and Biotic* Mr. Rohit Manglik, 2024-02-07 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

**Introduction to Population Ecology** Larry L. Rockwood, 2009-03-12 Introduction to Population Ecology is an accessible and up to date textbook covering all aspects of population ecology Discusses field and laboratory data to illustrate the fundamental laws of population ecology Provides an overview of how population theory has developed Explores single species population growth and self limitation metapopulations and a broad range of interspecific interactions including parasite host predator prey and plant herbivore Keeps the mathematics as simple as possible using a careful step by step approach and including graphs and other visual aids to help understanding Artwork from the book is available to instructors online at [www.blackwellpublishing](http://www.blackwellpublishing)

com rockwood and by request on CD ROM      *Metapopulation Ecology* Ilkka Hanski, 1999-03-18 Written by a world renowned biologist this volume offers a comprehensive synthesis of current research in this rapidly expanding area of population biology It covers both the essential theory and a wide range of empirical studies including the author's groundbreaking work on the Glanville fritillary butterfly It also includes practical applications to conservation biology The book describes theoretical models for metapopulation dynamics in highly fragmented landscapes and emphasizes spatially realistic models It presents the incidence function model and includes several detailed examples of its application Accessible to advanced undergraduate and graduate students *Metapopulation Ecology* will be a valuable resource for researchers in population biology conservation biology and landscape ecology      *Aquatic Toxicology and Environmental Fate* T. M. Poston, Rich Purdy, 1986      *Theory-Based Ecology* Liz Pásztor, Zoltán Botta-Dukát, Gabriella Magyar, Tamás Czárán, Géza Meszéna, 2016-06-30 Ecology is in a challenging state as a scientific discipline While some theoretical ecologists are attempting to build a definition of ecology from first principles many others are questioning even the feasibility of a general and universal theory At the same time it is increasingly important that ecology is accurately and functionally defined for a generation of researchers tackling escalating environmental problems in the face of doubt and disagreement The authors of *Theory Based Ecology* have written a textbook that presents a robust modern and mathematically sound theory of ecology maintaining a strong link between empirical data models and theory It is firmly based in Darwinian thought since it was Darwin who first revealed the ecological principles of the origin of species and gave the evolution of diversity a process based mechanistic explanation The authors base their synthetic theory of Darwinian ecology on seven key principles exponential growth growth regulation inherited individual differences finiteness and stochasticity competitive exclusion robust coexistence and constraints and trade offs Within this solid conceptual framework they integrate classic and actual empirical knowledge from ecology and evolutionary biology clarifying methodological and mathematical detail in clear and helpful text boxes A wealth of illustrated examples pertaining to different organisational levels alleles clones and species helps to explain how the principles operate This is an invaluable resource for graduate level students as well as professional researchers in the fields of ecology genetics evolutionary ecology and mathematical biology      **Range and Animal Sciences and Resources Management - Volume I** Victor R. Squires, 2010-07-07 *Range and Animal Sciences and Resources Management* is a component of *Encyclopedia of Food and Agricultural Sciences Engineering and Technology Resources* in the global *Encyclopedia of Life Support Systems EOLSS* which is an integrated compendium of twenty one Encyclopedias Rangelands comprise over forty percent of the earth's land surface and as one of the most prevalent land systems on the planet rangelands are critical habitats for myriad plant and animal species and form many of the world's major watersheds Rangelands are categorized in two distinct ways a as a type of land or b a type of land use This theme with contributions from distinguished experts in the field discusses about *Range and Animal Sciences and Resources Management* in several related

topics These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

*Perspectives for Biodiversity and Ecosystems* Carsten Hobohm, 2021-02-05 The novelty of the book is a strong focus on perception perspectives and prediction by scientists with profound insight into the ecology of ecosystems or into human demands and activity The challenge is to bridge from empirical data and the knowledge of the past to the possibilities of the performance in the future We assume that there is scope for more cooperation between the fields of ecology and practical philosophy or other social sciences in organising ecosystems and shaping the cultural future of humankind and that such collaboration should be accorded considerably more priority This book deals with environmental processes seen within a framework of the nature of ecosystems and human cultures The future of the environment the development of ecosystems and effective nature conservation management are the essentials of this book Human nature and culture and in particular their interactions are interpreted as a set of rules and as given The aim is not only to assess the significance of human influence on species composition and biodiversity but also to weigh up the subsequent potentials for action In this book we will analyze the problems independently of one another even if they are interconnected This book focuses on perspectives and prognoses for the impacts of anthropogenic activity on ecosystems and thus on species conservation Its goal is to improve assessments of the impacts of human activity on the environment We are aware that prognoses have very often proven to be false It is difficult to impossible to be able to predict with precision how evolution and ecosystems will change in future under anthropogenic influence This strengthens our resolve to attempt to retain the highest possible degree of scientific integrity and professionalism and not to shy away from expressing the uncertainty of our own ideas and prognoses We venture prognoses in this book and we will fail However we hope that we will be wrong on the right side

*Species Coexistence* M. Tokeshi, 2009-06-22 As a novel endeavour in ecological science this book focuses on a major issue in organismal life on Earth species coexistence The book crosses the usual disciplinary boundaries between palaeobiology ecology and evolutionary biology and provides a timely overview of the patterns and processes of species diversity and coexistence on a range of spatio temporal scales In this unique synthesis the author offers a critical and penetrating examination of the concepts and models of coexistence and community structure thus making a valuable contribution to the field of community ecology There is an emphasis on clarity and accessibility without sacrificing scientific rigour making this book suitable for both advanced students and individual researchers in ecology palaeobiology and environmental and evolutionary biology Comprehensive and contemporary synthesis Pulls together the aggregate influence of evolution and ecology on patterns in communities Balanced mix of theory and empirical work Clearly structured chapters with short introduction and summary

Unsolved Problems in Ecology Andrew Dobson, David Tilman, Robert D. Holt, 2020-06-02 This volume provides a series of essays on open questions in ecology with the overarching goal being to outline to the most important most interesting or most fundamental problems

in ecology that need to be addressed The contributions span ecological subfields from behavioral ecology and population ecology to disease ecology and conservation and range in tone from the technical to more personal meditations on the state of the field Many of the chapters start or end in moments of genuine curiosity like one which takes up the question of why the world is green or another which asks what might come of a thought experiment in which we turn off evolution entirely

*Competition and Coexistence* Ulrich Sommer, Boris Worm, 2012-12-06 The question Why are there so many species has puzzled ecologists for a long time Initially an academic question it has gained practical interest by the recent awareness of global biodiversity loss Species diversity in local ecosystems has always been discussed in relation to the problem of competitive exclusion and the apparent contradiction between the competitive exclusion principle and the overwhelming richness of species found in nature Competition as a mechanism structuring ecological communities has never been uncontroversial Not only its importance but even its existence have been debated On the one extreme some ecologists have taken competition for granted and have used it as an explanation by default if the distribution of a species was more restricted than could be explained by physiology and dispersal history For decades competition has been a core mechanism behind popular concepts like ecological niche succession limiting similarity and character displacement among others For some competition has almost become synonymous with the Darwinian struggle for existence although simple plausibility should tell us that organisms have to struggle against much more than competitors e.g. predators parasites pathogens and environmental harshness

**Population and Community Ecology of Ontogenetic Development** André M. de Roos, Lennart Persson, 2013-01-15 Most organisms show substantial changes in size or morphology after they become independent of their parents and have to find their own food Furthermore the rate at which these changes occur generally depends on the amount of food they ingest In this book André de Roos and Lennart Persson advance a synthetic and individual based theory of the effects of this plastic ontogenetic development on the dynamics of populations and communities De Roos and Persson show how the effects of ontogenetic development on ecological dynamics critically depend on the efficiency with which differently sized individuals convert food into new biomass Differences in this efficiency or ontogenetic asymmetry lead to bottlenecks in and thus population regulation by either maturation or reproduction De Roos and Persson investigate the community consequences of these bottlenecks for trophic configurations that vary in the number and type of interacting species and in the degree of ontogenetic niche shifts exhibited by their individuals They also demonstrate how insights into the effects of maturation and reproduction limitation on community equilibrium carry over to the dynamics of size structured populations and give rise to different types of cohort driven cycles Featuring numerous examples and tests of modeling predictions this book provides a pioneering and extensive theoretical and empirical treatment of the ecology of ontogenetic growth and development in organisms emphasizing the importance of an individual based perspective for understanding population and community dynamics

**Algal Ecology**, 1996-06-03 Algae are an important component of aquatic benthic ecosystems



because they reflect the health of their environment through their density abundance and diversity This comprehensive and authoritative text is divided into three sections to offer complete coverage of the discussion in this field The first section introduces the locations of benthic algae in different ecosystems like streams large rivers lakes and other aquatic habitats The second section is devoted to the various factors both biotic and abiotic that affect benthic freshwater algae The final section of the book focuses on the role played by algae in a variety of complex freshwater ecosystems As concern over environmental health escalates the keystone and pivotal role played by algae is becoming more apparent This volume in the Aquatic Ecology Series represents an important compilation of the latest research on the crucial niche occupied by algae in aquatic ecosystems Presents algae as the important player in relation to environmental health Prepared by leading authorities in the field Includes comprehensive treatment of the functions of benthic algae as well as the factors that affect these important aquatic organisms Acts as an important reference for anyone interested in understanding and managing freshwater ecosystems

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