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Plant Conservation The Conservation of Plant Biodiversity Plant Conservation in the Tropics In Situ Conservation of Wild Plant Species Plant Conservation Plant Conservation Biotechnology Plant Conservation Plant Conservation Science and Practice Botanical Gardens and Their Role in Plant Conservation Botanical Gardens and Their Role in Plant Conservation Ex Situ Plant Conservation The Biological Aspects of Rare Plant Conservation Microorganisms in Plant Conservation and Biodiversity Plant Conservation Principles and Practice of Plant Conservation Plant Conservation International Conservation Law Plant Conservation in the Mediterranean Area Genetics and Conservation of Rare Plants Wild Flora for Improved Rural Livelihoods Conservation Taxonomy and Plant Conservation Plant Conservation Genetics People, Plants and Protected Areas Management of Endangered Plants Population Viability in Plants Conservation and Reintroduction of Rare and Endangered Plants in China Plants in Danger Restoring Diversity Biodiversity and Conservation of Woody Plants Population Viability in Plants Plants and Protected Areas Conserving Plant Genetic Diversity in Protected Areas History and Future of Plants, Planet and People A Colour Atlas of Plant Propagation and Conservation Man on the Landscape Seeds of Restoration Success Crop Wild Relative Conservation and Use Conservation of Threatened Plants Enduring Seeds

Plant Conservation

2013-12-03

plants ability to turn sunlight into energy makes them the basis for all life without them there is no life and they are more than just a food source they provide us with fuel fibers and pharmaceuticals global warming and the destruction of natural habitats are a serious threat to many plants and there are worldwide efforts to mitigate the disaster plant conservation tackles this essential topic head on timothy walker as the director of the oxford botanical garden a leader in the field of plant conservation plays a key role in this effort he highlights what is happening now from cataloging the world s flora to conservation efforts like protecting plants from overcollecting he also shows home gardeners how they can become involved whether by growing their own food to decrease reliance on large agriculture or by making smart plant choices by growing natives and avoiding invasives plant conservation treats a critical topic in an accessible and optimistic way it is required reading for students professionals and anyone with a keen interest in the importance of plants

The Conservation of Plant Biodiversity

1995-09-21

discusses the various options for conserving plants at the level of the gene species and community

Plant Conservation in the Tropics

2002

plant conservation in the tropics presents a set of case studies reviewing some of the most pertinent plant conservation being carried out by experts at the tropical biodiversity frontline

In Situ Conservation of Wild Plant Species

2005

in this the latest in the people and plants series plant conservation is described in the context of livelihoods and development and ways of balancing the conservation of plant diversity with the use of plants and the environment for human benefit are discussed a central contention in this book is that local people must be involved if conservation is to be successful also examined are ways of prioritizing plants and places for conservation initiatives approaches to in situ and ex situ conservation and how to approach problems of unsustainable harvesting of wild plants roles for botanists foresters sociologists development workers and others are discussed this book acts as a unifying text for the series integrating case studies and methodologies considered in previous volumes and pointing out in a comprehensive accessible volume the valuable lessons to be learned

Plant Conservation

2013-06-17

introduces biotechnological techniques which are currently used to conserve horticultural and crop plant germplasm forest tree genetic resources endangered plant species and plant cell culture collections covers techniques and applications

Plant Conservation Biotechnology

2002-04-12

first published in 2006 routledge is an imprint of taylor francis an informa company

Plant Conservation

2006

this book focuses on global efforts to protect plant diversity and the role that botanic gardens play in conserving plant species

Plant Conservation Science and Practice

2017-08-03

approaching the contributions of a world wide sector of scientific institutions to addressing the extinction crisis botanical gardens and their role in plant conservation brings together a diversity of perspectives there are more than3 600 botanical gardens worldwide where trees shrubs herbs and other plants are studied and managed in collections they are foremost among efforts to conserve the diversity of living plant species and ensure that crucial biodiversity is available for the future of humanity this book is a showcase for plant conservation restoration biodiversity and related scientific and educational work of botanical gardens around the world featuring both thematic overview chapters and numerous case studies that illustrate the critical role these institutions play in fighting extinction and ensuring plant diversity is available for sustainable use features a wide range of case studies derived from practical experience in a diversity of institutional national and biogeographical settings reviews of topics such as networking amongst institutions the importance of global policy agreements such as the convention on biological diversity and the global strategy for plant conservation profiles of botanical gardens contributions at the national level to conservation priorities real world examples of programs in plant conservation for both critically endangered wild plant diversity and unique horticultural or cultural germplasm botanical gardens and their role in plant conservation includes contributions from institutions from africa asia australia europe and the americas and institutions of all sizes and histories from long established national gardens to new gardens offering their perspectives on developing their roles in this vital undertaking

Botanical Gardens and Their Role in Plant Conservation

2024

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Botanical Gardens and Their Role in Plant Conservation

2023-09-29

faced with widespread and devastating loss of biodiversity in wild habitats scientists have developed innovative strategies for studying and protecting targeted plant and animal species in off site facilities such as botanic gardens and zoos such ex situ work is an increasingly important component of conservation and restoration efforts ex situ plant conservation edited by edward o guerrant jr kayri havens and mike maunder is the first book to address integrated plant conservation strategies and to examine the scientific technical and strategic bases of the ex situ approach the book examines where and how ex situ investment can best support in situ conservation ex situ plant conservation outlines the role value and limits of ex situ conservation as well as updating best management practices for the field and is an invaluable resource for plant conservation practitioners at botanic gardens zoos and other conservation organizations students and faculty in conservation biology and related fields managers of protected areas and other public and private lands and policymakers and members of the international community concerned with species conservation

Ex Situ Plant Conservation

2013-02-22

this practical and bold book unifies multiple aspects of plant conservation into a single coherent concept linking theory and methodology

The Biological Aspects of Rare Plant Conservation

1981

it is paradoxical that despite the key role of plants in the book s preparation by reviewing manuscripts or the environment and our dependence on plant life for providing literature and case studies for inclusion our very existence the conservation movement has the preparation of the text which went through var not given plants attention that is commensurate with ious drafts involved dr given in a great deal of re their importance in an attempt to redress the balance search and travel for fact finding and consultation of effort between plant and animal conservation the completed draft was edited by martin walters iucn and wwf established in 1984 a joint plant who also prepared it for publication professor ver conservation programme the aim of which was to non heywood iucn undertook a scientific edit of assert the fundamental importance of plants in all the final draft conservation activities both iucn and wwf would like to express their gratitude to dr given for the enormous effort and one of the main themes of the joint plant conser painstaking labor that he has invested in the prepara vation programme was building the capacity to con serve this included a project plant conservation tion of this book over a period of six years the result principles and practice aimed at providing practic is the first detailed overview ever to be published of ing conservationists with a handbook that explained this vitally important subject

Microorganisms in Plant Conservation and Biodiversity

2014-01-15

natural history has always been the foundation of conservation biology for centuries botanists collected specimens in the field to understand plant diversity now that many habitats are threatened botanists have turned their focus to conservation and increasingly they look to the collections of museums herbaria and botanical gardens for insight on developing informed management programs plant conservation explores the value of these collections in light of contemporary biodiversity studies plant conservation opens with a broad view of plant biodiversity and then considers evolutionary and taxonomic threats and consequences of habitat alteration specific threats to plant diversity such as invasive species and global climate change consequences of plant population decline at the ecological evolutionary and taxonomic levels and finally management strategies that protect plant biodiversity from further decline with a unique perspective on biodiversity and scientific collections plant conservation ultimately emphasizes the role museums and botanical gardens will play in future

conservation

Plant Conservation

2019-03-07

through a combination of theoretical and empirical approaches this book explores the role of international environmental law in protecting and conserving plants underpinning every ecosystem on the planet plants provide the most basic requirements food shelter and clear air yet the world s plants are in trouble a fifth of all plant species are at risk of extinction with thousands more in perpetual decline in a unique study of international environmental law this book provides a comprehensive overview of the challenges and restrictions associated with protecting and conserving plants through analysing the relationship between conservation law and conservation practice the book debates whether the two work symbiotically or if the law poses more of a hindrance than a help further discussion of the law s response to some of the major threats facing plants notably climate change international trade and invasive species grounds the book in conservation literature using case studies on key plant biomes to highlight the strengths and weaknesses of the law in practice the book also includes previously unpublished results of an original empirical study into the correlations between the iucn red list and lists of endangered protected species in international instruments to conclude the book looks to the future considering broader reforms to the law to support the work of conservation practitioners and reshape humanity s relationships with nature the book will be of interest to scholars and students working in the field of international environmental law and those interested more broadly in conservation and ecological governance frameworks

Principles and Practice of Plant Conservation

1995-06-30

nearly 700 species of plants may become extinct by the year 2000 faced with this overwhelming prospect plant conservationists must take advantage of every technique available this unique work summarizes our current knowledge of the genetics and population biology of rare plants and integrates it with practical conservation recommendations it features discussions on the distribution and significance of genetic variation management and evaluation of rare plant germplasm and conservation strategies for genetic diversity case studies focusing on specific problems offer important insights for today s challenges in rare plant conservation

Plant Conservation

2005

discusses the use of natural resources for the purpose of extending their availability and retaining global biodiversity

International Conservation Law

2020-04-22

this book illustrates the key role played by taxonomy in the conservation and sustainable utilization of plant biodiversity divided into four parts the book opens with an overview of the place of taxonomy in science and in implementing the convention on biological diversity with contributions from taxonomists and also the users of taxonomy the volume will provide a balanced treatment suitable for advanced students researchers and conservation professionals

Plant Conservation in the Mediterranean Area

1985

a practical guide that covers both in situ and ex situ techniques for plant diversity conservation the conservation and sustainable use of plant genetic resources is of increasing importance globally plant conservation genetics addresses this issue by providing an extensive overview of this emerging area of science exploring various pr

Genetics and Conservation of Rare Plants

1991-11-14

conservation of plant resources is often focused on seed banks and botanical gardens however the two authors of this volume present a comprehensive conservation strategy that complements this ex situ approach with practical guidance on in situ management and conservation of plant resources the book aims to facilitate better management of protected areas and to illustrate new approaches to conservation of plants within their landscapes it draws on concepts from forestry the agricultural sciences anthropology ethnology and ethnobotany and should be useful to practitioners academics and policy makers

Wild Flora for Improved Rural Livelihoods

2012

guide for rangers planners scientific officers botanists and naturalists wanting to aid the survival of australia s endangered flora provides information on the monitoring and management of rare and endangered species discusses reasons why plants become threatened and conservation strategies includes many case studies a list of useful contacts a bibliography and an index the author is a botanical consultant who has published widely on the management of threatened taxa

Conservation

2009

providing a quantitative assessment of threatened plant populations that holds for varying management scenarios has become an essential part of conservation planning here renowned plant ecologists provide information on major threats to plants when and where to conduct a plant viability assessment pva what type of pva to conduct what alternative options to pva are available what information is required for which kind of viability assessment what attributes of the population in question should be considered and what the limits of the pva would be as such this volume can be used as a training tool for the environmental manager or a teaching aid for reviewing the current state of knowledge on plant population viability

Taxonomy and Plant Conservation

2006-01-19

the book offers a comprehensive review of the advances in conservation and the reintroduction of rare and endangered plants in china it systematically discusses plant diversity in situ and ex situ protection and plant reintroduction in china including the reintroduction species list and orchid plant reintroduction up to november 2019 a useful reference resource for students instructors and scientific researchers in the field of wild plant protection botany biodiversity protection and natural land protection and management the book also provides valuable insights for government departments involved in plant management

Plant Conservation Genetics

2006-06-21

the reintroduction of rare and endangered species to their natural habitat is one of emerging tools of ecosystem management yet despite hundreds of ongoing projects the biological underpinnings of such activity are poorly understood and important questions remain restoring diversity provides biological policy and regulatory foundations for successful restoration of rare plants topics considered include the strategic and legal context for rare plant restoration the biology of restoration use and misuse of mitigation in rare plant conservation and case studies from across the united states restoring diversity presents model guidelines for the reintroduction of endangered plants guidelines that incorporate ideas contained in the book s chapters with the wide ranging experience of experts in the field it is a pathbreaking work that not only unifies concepts in the field of restoration but also fills significant technical and policy gaps and provides operational tools for successful restorations

People, Plants and Protected Areas

2013-12-16

this book provides complete comprehensive and broad subject based reviews for students teachers researchers policymakers conservationists and ngos interested in the biodiversity and conservation of woody plants forests cover approximately 31 percent of the world s total landmass 93 percent is natural forest and only 7 percent consists of planted trees forest decline is progressing at an alarming rate worldwide in addition to human activities logging deforestation and exploiting forest lands for agriculture and industrial use a number of other factors including pests and diseases drought soil acidity radiation and ozone are cumulatively contributing to global forest decline the present situation forces us to focus on forest conservation strategies for the present and future gene conservation and maintaining genetic diversity in forest ecosystems are crucial to the preservation of forest genetic resources this calls for integrated action to implement both the in situ on site preservation of forest stands and ex situ distant from the original site strategies for the conservation of woody plants genetic resources selected priority areas include 1 assessing patterns of genetic diversity and threats 2 understanding the biological processes regulating genetic diversity 3 assessing the impact of human activities and climate change on genetic diversity and 5 finding methods for prioritizing species and populations for the conservation of forest trees genetic resources all chapters were written by leading scientists in their respective fields which include woody plant diversity ecology and evolution assessment of genetic diversity in forest tree populations conservation planning under climate change and in situ and ex situ strategies including biotechnological approaches for the conservation of woody plants genetic resources

Management of Endangered Plants

1993

with the dual aim of facilitating better management of protected areas and illustrating innovative approaches to the conservation of plant resources within their original landscapes the emphasis of this text is on the practical conservation of plant biodiversity based on collaboration between conservation professionals and local communities drawing on concepts and methods from ecology forestry conservation biology agricultural sciences anthropology and ethnobiology the book is intended as aid to natural resource managers environmental policy makers and conservation biologists

Population Viability in Plants

2010-12-01

conservation in protected areas has focused on preserving biodiversity of ecosystems and species whereas conserving the genetic diversity contained within species has historically often been ignored however maintaining genetic diversity is fundamental to food security and the provision of raw materials and it is best preserved within plants natural habitats this is

particularly true for wild plants that are directly related to crop species and can play a key role in providing beneficial traits such as pest or disease resistance and yield improvement these wild relatives are presently threatened due to processes of habitat destruction and change and methodologies have been adapted to provide in situ conservation through the establishment of genetic reserves within the existing network of protected areas providing a long awaited synthesis of these new methodologies this book presents a practical set of management guidelines that can be used for the conservation of plant genetic diversity of crop wild relatives in protected areas

Conservation and Reintroduction of Rare and Endangered Plants in China

2020-08-28

this fascinating book presents the experiences and pooled knowledge of two very different conservation scientists pei shengji from sichuan china and alan hamilton from london uk they have been drawn together over many years through working on some of the same conservation projects and have discovered that they overlap in their ideas about the sorts of work that needs to be done and how it can best be carried out the book describes some of their own experiences set within the contexts of their varied careers and the development of their thinking plant conservation is crucial to the preservation of natural ecosystems but conventional approaches have met with only limited success the authors have concluded that plant conservationists need social allies elements of society that have other primary concerns but whose efforts if successful will bring benefits to plant conservation too it is the state and condition of plants on the ground that ultimately matter in conserving ecosystems and therefore it is the role of local people who interact directly with them which enables success ethnobotany is a key skill required of practical plant conservationists its techniques enable them to explore connections between people and plants learn about local perspectives and establish relationships with the people upon whom conservation and sustainable development relies this book recommends how to advance plant conservation based on real experiences will inspire more people to become involved in plant conservation demonstrates how the very different backgrounds of the authors have influenced the courses of their careers but have enabled them to come to very similar conclusions about conservation practice demonstrates the importance of geographically based biocultural diversity as a counterbalancing force to globalisation

Plants in Danger

1986

while scientific and socio political communities around the world are aware of the natural and economic importance of biodiversity we are faced with an ever increasing number of plant species under threat of extinction conservation is thus a vital part of the plant scientist s work in the field in botanic gardens and in universities this colour

Restoring Diversity

1996

this book provides a general overview of the natural landscapes and vegetation types of the u s the key plant species that help define them the pressures faced by natural ecosystems and the imperative for conservation and restoration it addresses the policies that have been introduced to manage healthy ecosystems and the practical progress that is being made in restoration a particular focus is on the production of diverse native plant materials currently required by the national seed strategy case studies demonstrate how native plant materials are essential to support the conservation of healthy ecosystems with their biodiversity and functions as well as supporting a productive and sustainable agricultural sector and healthy ecosystems for all the authors are closely connected with major national and international networks of botanic gardens ecologists and conservation scientists at board level and through other professional links condensing a wide range of current information into a concise format this book fills a need by experts and informed amateurs interested in the natural environment including gardeners botanic garden and protected area visitors government agencies the private sector native seed industry and ngos

Biodiversity and Conservation of Woody Plants

2017-11-21

these proceedings contain 49 papers presented in the following sections i crop wild relative conservation ii establishing inventories and conservation priorities iii threat and conservation assessment iv genetic erosion and genetic pollution v in situ conservation vi ex situ conservation vii information management viii gene donors for crop improvement ix use of crop wild relatives and underutilized species and x global issues in crop wild relative conservation and use

Population Viability in Plants

2014-01-15

during the last hlo hundred years man has changed from living in equilibrium with the natural world which sustained him to a new position in which he is now its undisputed ruler and very often out of equilibrium able in a matter of hours to reduce miles of forest to devastated potential desert this destructive and wasteful ability has increas d dramatically over recent years at the same time however the need for conservation particularly of plants as a resource for the future has also become apparent along with the realisation that advanced technologies can produce more from existing agricultural and forest regions this may to some extent relieve the heavy pressure on the vulnerable areas where short term over exploitation leads to permanent destruction of whole ecosystems and the attendant loss for ever of many of the animals and plants which originally lived there there still remains today a vast number of plant species whose potential is unknown maybe they will never have more than aesthetic value to mankind but who knows where for example the next anti cancer agent may be found and anyway future generations may not be ready to accept such anthropocentric values and the options should be kept open for the philosophical concept that all life on earth has a right to exist and that man has none to exterminate

Plants and Protected Areas

1998

as biological diversity continues to shrink at an alarming rate the loss of plant species poses a threat seemingly less visible than the loss of animals but in many ways more critical in this book one of america s leading ethnobotanists warns about our loss of natural vegetation and plant diversity while providing insights into traditional native agricultural practices in the americas gary paul nabhan here reveals the rich diversity of plants found in tropical forests and their contribution to modern crops then tells how this diversity is being lost to agriculture and lumbering he then relates local parables of native american agriculture from wild rice in the great lakes region to wild gourds in florida that convey the urgency of this situation and demonstrate the need for saving the seeds of endangered plants nabhan stresses the need for maintaining a wide gene pool not only for the survival of these species but also for the preservation of genetic strains that can help scientists breed more resilient varieties of other plants enduring seeds is a book that no one concerned with our environment can afford to ignore it clearly shows us that as agribusiness increasingly limits the food on our table a richer harvest can be had by preserving ancient ways this edition features a new foreword by miguel altieri one of today s leading spokesmen for sustainable agriculture and the preservation of indigenous farming methods

Conserving Plant Genetic Diversity in Protected Areas

2008

History and Future of Plants, Planet and People

2024-10-11

A Colour Atlas of Plant Propagation and Conservation

1999-04-01

Man on the Landscape

1949

Seeds of Restoration Success

2019-09-25

Crop Wild Relative Conservation and Use

2008

Conservation of Threatened Plants

1976-08

Enduring Seeds

2002-10

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