

Ecosystem Functioning Ecology Biodiversity And Conservation

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Species diversity is a major determinant of ecosystem productivity, stability, invasibility, and nutrient dynamics. Hundreds of studies spanning terrestrial, aquatic, and marine ecosystems show that high-diversity mixtures are approximately twice as productive as monocultures of the same species and that this difference increases through time. These impacts of higher diversity have multiple ...

Biodiversity and Ecosystem Functioning | Annual Review of Ecology ...

Biodiversity plays an important role in ecosystem functioning. ... Ecosystem ecology A hydrothermal vent is an ecosystem on the ocean floor. (The scale bar is 1 m.) ... is an intergovernmental organization established to improve the interface between science and policy on issues of biodiversity and ecosystem services.

Ecosystem - Wikipedia

Biodiversity is rapidly declining worldwide, and there is considerable evidence that ecosystem functioning (e.g., productivity, nutrient cycling) and ecosystem stability (i.e., temporal ...

Causes and Consequences of Biodiversity Declines - Nature

The Ecology and Landscape Dynamics research department improves our understanding of the functioning and dynamics of abiotic and biotic components of (geo-)ecosystems across landscapes through time. ... At the Institute for Biodiversity and Ecosystem Dynamics - or IBED in short- , we try to understand biodiversity and functioning of ecosystems ...

Institute for Biodiversity and Ecosystem Dynamics

2. Anthropogenic influences on tropical forest biodiversity. The primary contemporary drivers of tropical forest biodiversity loss include direct effects of human activities such as habitat destruction and fragmentation (land-use change), invasive species and over-exploitation, as well as indirect effects of human activities such as climate change (Millennium Ecosystem Assessment 2005).

Anthropogenic impacts on tropical forest biodiversity: a network ...

The book is a results of the team work of scientists from the Institute of Ethnology and Folklore with Ethnographic Museum-BAS and the Institute of Biodiversity and Ecosystem Research-BAS in the frame of the "The Garden: Site of Biocultural Diversity and Interdisciplinary Junction" project, funded by National Science Fund in 2016 (DN10/1/13.12 ...

Institute of Biodiversity and Ecosystem Research at the Bulgarian ...

Limiting the spread of invasive species can also help maintain biodiversity, ecosystem function, ... ecological functioning, and ecosystem services. 262 Direct climate impacts, ... Another big uncertainty is the incomplete information on the ecology and responses of species and ecosystems to climate change.

Ecosystems, Ecosystem Services, and Biodiversity - Fourth National ...

Two decades of biodiversity research have shown that above-ground plant diversity is a key driver of ecosystem functioning in a wide range of ecosystems (2-5). Our research extends this observation to the below-ground environment, suggesting that a reduction of soil biodiversity and changes in soil community composition impacts not only on ...

Soil biodiversity and soil community composition determine ecosystem ...

Restoration ecology is the scientific study supporting the practice ... Disturbance is a change in environmental conditions that disrupt the functioning of an ecosystem. ... ecologists and conservation biologists agree that protecting and restoring habitat is important for protecting biodiversity. However, conservation biology is primarily ...

Restoration ecology - Wikipedia

While it is now possible to remotely observe a suite of biodiversity variables 3,4,5 and ecosystem services (or nature's contributions to people) 6, the information required for understanding ...

Integrating remote sensing with ecology and evolution to ... - Nature

INTRODUCTION. Efficient and effective ecological restoration is urgently needed to counteract the negative consequences of habitat destruction and degradation for biodiversity and the functioning of natural ecosystems (Suding et al., 2015). Yet, progress towards ambitious global targets (Fagan et al., 2020) is challenged by ineffectiveness at achieving restoration goals (Benayas et al., 2009 ...

Terrestrial ecosystem restoration increases biodiversity and reduces ...

This course is an introduction to ecology and ecosystem dynamics using a systems thinking lens. Through a case study on Mozambique's Gorongosa National Park, learners will explore how scientists study ecosystems, and investigate the complex array of factors that inform management efforts.

Ecology: Ecosystem Dynamics and Conservation - Coursera

Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam, PO Box 94240, 1090 GE Amsterdam, the Netherlands. Search for more papers by this author. ... To comprehend the impact of drought on rhizosphere processes, and the implications for ecosystem functioning, robust and realistic methods to collect exudates during and after ...

Plant root exudation under drought: implications for ecosystem functioning

Biodiversity is a relatively recent term in science, only coming into common usage in the 1980s. Since then, it has become one of the most important concepts in [gt]environmental science[gt]. ... medicinal plants, and freshwater. Supporting services are processes of nature essential to the functioning of the ecosystem as a whole. These include ...

Biodiversity and Evolution - HealingEarth

Beta diversity is a measure of site-to-site variation in the composition of species within a certain area. A new study led by Washington University in St. Louis has found that tree beta diversity matters more for ecosystem functioning than other components of biodiversity at larger scales, such as local or regional diversity. The experts have also discovered that the relationship between beta ...

Beta diversity contributes to ecosystem stability • Earth.com

Landscape Ecology is the flagship journal of a well-established and rapidly developing interdisciplinary science that focuses explicitly on the ecological understanding of spatial heterogeneity. Landscape Ecology draws together expertise from both biophysical and socioeconomic sciences to explore basic and applied research questions concerning the ecology, conservation, management, design ...

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