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Habitat Fragmentation - an overview | ScienceDirect Topics

Using a multi-year, high-frequency time series data from a

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north temperate lake, we documented stabilising mechanisms of biodiversity, including 1. bacterial taxa exhibited differential responses to seasonal environmental conditions, 2. strong negative frequency dependence in rare, but metabolically active, taxa and 3. preservation of taxa over winter due to seed bank dynamics.

Ecological Theory - an overview | ScienceDirect Topics

Ecosystem services are the many and varied benefits to humans provided by the natural environment and from healthy ecosystems. Such ecosystems include, for example, agroecosystems, forest ecosystems, grassland ecosystems and aquatic ecosystems. These ecosystems, functioning in healthy relationship, offer such things like natural pollination

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of crops, clean air, extreme weather mitigation, and ...

Frontiers | Urbanization Effects on Biodiversity Revealed

...

The composition and stability of microbial communities in aquaculture water are crucial for the healthy growth of shrimp and present considerable risk to aquatic ecosystems. The modified clay (MC) method has been proposed as an efficient and safe solution for the mitigation of harmful algal blooms (HABs). Currently, the effects of MC on microbial communities in aquaculture water remain unknown.

Forest biodiversity, ecosystem functioning and the ...

Plant species asynchrony (Loreau & de Mazancourt, ... A

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decrease in population variance can promote temporal stability by reducing the variability of populations ... Our study has important implications for restoration and conservation management in terrestrial ecosystems. First, it is important to preserve biodiversity at multiple trophic ...

Anthropogenic impacts on tropical forest biodiversity: a

...

ecosystems; we cannot even eradicate cockroaches (without poisoning ourselves)! We are the endangered species
The logical primacy of natural history and our growth is the premise of our collapse, as Darwin The modern meaning of natural history is not far from said, and it is worth repeating it: Darwin's research protocol.

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The global nitrogen cycle in the twenty-first century ...

The carbon balance of terrestrial ecosystems in China.

Nature, 458: 1009-1013 (9) Wang ZH, Brown J, Tang ZY, Fang JY. 2009. Temperature dependence, spatial scale, and tree species diversity in eastern Asia and North America.

PNAS, 106: 13388–13392 (10) Fang JY, Chen AP, Peng CH, Zhao SQ, Ci LJ. 2001. Changes in forest biomass carbon storage ...

Ecosystem service - Wikipedia

The diversity of species and genes in ecological communities affects the functioning of these communities. These ecological effects of biodiversity in turn are affected by both

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climate change through enhanced greenhouse gases, aerosols and loss of land cover [citation needed], and biological diversity, causing a rapid loss of biodiversity and extinctions of species and local populations.

Plant and soil biodiversity have non?substitutable ...

Graphical representation of how eco-evolutionary dynamics interact with human influences. Human activities (at right) can have direct ecological effects on the dynamics of a focal species (populations), the structure of its community (communities) and the function of its ecosystem (ecosystems).

Biodiversity loss and its impact on humanity | Nature

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Ecosystems. Climate change affects the living world, including people, through changes in ecosystems, biodiversity, and ecosystem services. Ecosystems entail all the living things in a particular area as well as the non-living things with which they interact, such as air, soil, water, and sunlight.

Ecological effects of biodiversity - Wikipedia

Loreau, M. Linking biodiversity and ecosystems: towards a unifying ecological theory. Proc. Trans. R. Soc. B 365, 49–60 (2010). Article Google Scholar 18. Cardinale, B. J. et al. Effects of ...

(PDF) From Darwin's Origin of Species toward a theory of

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Coastal habitats are declining worldwide, which has impacted economically important fisheries, especially in the Indian River Lagoon, Florida. As a result, extensive intertidal oyster reef and living shoreline restoration projects have been implemented. Restoration can also theoretically benefit predator populations, but this relationship is understudied. Here, the impact of habitat ...

Ecology Letters: Vol 24, No 11

Globally, forest specialist species are in decline (e.g., Gregory et al. 2007), particularly those associated with primary forests containing old trees and biological legacies. There is an urgent need to identify the impacts of management on habitat

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provisioning in forest ecosystems and to highlight potential mitigation measures so that the range of ecosystem functions and services directly ...

Impact of mangrove forests degradation on biodiversity and ...

Specifically, processes structuring populations, communities, and ecosystems occur both at local and large scales, whereby local-scale processes are influenced by processes occurring over much larger scales (Hubbell, 2001; Leibold et al., 2004; Logue et al., 2011). These metasytem concepts (i.e., metapopulations, metacommunities, and ...

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During the 1980s, concern about the rate at which species were being lost from ecosystems led to research showing that organisms can influence the physical formation of habitats (ecosystem ...

Sustainability | Free Full-Text | Restored Coastal Habitat

...

(i) Terrestrial ecosystems. BNF provides an important reference when quantifying the importance of human inputs to the global nitrogen cycle, as this is the primary non-anthropogenic input of N_r []. The quantity from lightning, discussed later, is over an order of magnitude smaller than any of the estimates of BNF, albeit of large importance for the formation of ozone in and the maintenance of ...

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Ecosystems and Biodiversity | National Climate Assessment

Ecosystem diversity is defined as a form of diversity between ecosystems within a geographical location. An ecosystem is, in turn, defined as a system that includes all living organisms (biotic factors) and the physical environment (abiotic factors) functioning together as a unit. Ecosystems may be terrestrial, freshwater, marine, and artificial.

F_???????????? - pku.edu.cn

Cities are complex urban ecosystems, and their functioning tends to be different than that of natural ecosystems because of the human element (Rebele, 1994; Grimm et al., 2000).

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Studying species-specific response to urbanization necessitates data for local communities across multiple locations.

Human influences on evolution, and the ecological and ...

Loreau M., Naeem S., Inchausti P. 2002 Biodiversity and ecosystem functioning: synthesis and perspectives. Oxford, UK: Oxford University Press [Google Scholar] Macdougall A. S., Turkington R. 2005 Are invasive species the drivers or passengers of change in degraded ecosystems? Ecology 86, 42–55 (doi:10.1890/04-0669) [Google Scholar]

IJERPH | Free Full-Text | Healthier Communities of ...

La sobreexplotación se refiere a la cosecha de recursos

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renovables al extremo de que no es posible que se recuperen. La sobreexplotación persistente puede llevar a la destrucción de recursos como los recursos naturales que incluyen plantas medicinales, pastizales, animales de caza, pescaderías, bosques, acuíferos y otros recursos no renovables. [2]

Ecosystem diversity - Definition and Examples - Biology

...

Andrew Hector, Michel Loreau, in Encyclopedia of Biodiversity, 2007. I. Biodiversity Experiments. Biodiversity experiments aim to identify the consequences of changes in diversity for ecosystem functioning and services (as opposed to looking at the covariation of these two factors in

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comparative analyses of observational datasets).

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