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biodiversity enhances ecosystem multifunctionality across habitat diversity and ecosystem multifunctionality the belowground biodiversity and ecosystem functioning nature the three major axes of terrestrial ecosystem function nature phytoplankton biodiversity is more important for ecosystem biodiversity promotes ecosystem functioning despite more diverse plant communities have higher functioning over a closer look at the functions behind ecosystem the up scaling of ecosystem functions in a heterogeneous coexistence niches and biodiversity effects on ecosystem forest biodiversity ecosystem functioning and the provision biodiversity and ecosystem functioning annual reviews biodiversity ecosystem functioning and services in fresh climate change and ecosystems threats opportunities and microbial functional diversity from concepts to applications linking network ecology and ecosystem services to benefit migratory animals couple biodiversity and ecosystem science the results of biodiversity ecosystem functioning experiments the ecosystem approach to health is a promising strategy in 6 ways to ensure ecosystem restoration prioritizes people

biodiversity enhances ecosystem multifunctionality across May 13 2024 analysing 94 biodiversity ecosystem functioning experiments lefcheck et al find that increased species richness maintains more ecological functions across multiple taxa trophic levels habitat diversity and ecosystem multifunctionality the Apr 12 2024 just as species diversity generally fosters ecosystem functioning through positive interspecies interactions we hypothesize that different habitats within ecosystems can facilitate each other through structural complementarity and through exchange of material and energy across habitats

belowground biodiversity and ecosystem functioning nature Mar 11 2024 our understanding of how this belowground biodiversity is distributed and how it regulates the structure and functioning of terrestrial ecosystems is rapidly growing

the three major axes of terrestrial ecosystem function nature Feb 10 2024 in summary by analysing a consistent set of ecosystem functions across major terrestrial biomes and climate zones we show that three key axes capture the terrestrial ecosystem functions

phytoplankton biodiversity is more important for ecosystem Jan 09 2024 wider temperature fluctuations led to steeper biodiversity ecosystem functioning slopes meaning that species loss had a stronger negative effect on ecosystem functioning in more fluctuating environments

biodiversity promotes ecosystem functioning despite Dec 08 2023 we conducted a meta analysis of 46 factorial experiments manipulating both species richness and the environment to test how global change drivers i e warming drought nutrient addition or co₂ enrichment modulated the effect of biodiversity on multiple ecosystem functions across three taxonomic groups microbes phytoplankton and plants

more diverse plant communities have higher functioning over Nov 07 2023 more diverse communities have been shown to have higher and more temporally stable ecosystem functioning than less diverse ones suggesting they should also have a consistently higher level of functioning over time

a closer look at the functions behind ecosystem Oct 06 2023 advantages and disadvantages of the use of ecosystem multifunctionality emf as a tool to assess and describe the ability of ecosystems to simultaneously provide multiple functions and services references are given for each example

the up scaling of ecosystem functions in a heterogeneous Sep 05 2023 here by integrating observational and manipulative experimental field data we reveal scale dependent influences on primary productivity in shallow marine habitats thus demonstrating the

coexistence niches and biodiversity effects on ecosystem Aug 04 2023 there is therefore a general consensus that biodiversity loss will have undesirable consequences for ecosystem functioning while the empirical results are clear the cause of the positive relationship between diversity and functioning has been rather more contentious

forest biodiversity ecosystem functioning and the provision Jul 03 2023 here we provide a review of forest ecosystem services including biomass production habitat provisioning services pollination seed dispersal resistance to wind storms fire regulation and mitigation pest regulation of native and invading insects carbon sequestration and cultural ecosystem services in relation to forest type structure and

biodiversity and ecosystem functioning annual reviews Jun 02 2023 biodiversity and ecosystem functioning david tilman 1 2 forest isbell 1 3 and jane m cowles 1 view affiliations vol 45 471 493 volume publication date november 2014 doi org 10 1146 annurev ecolsys 120213 091917 first published as a review in advance on october 01 2014 annual reviews info info list sections pdf build tools

biodiversity ecosystem functioning and services in fresh May 01 2023 to predict climate change impacts on functional diversity and the delivery of goods and services in freshwater ecosystems we need to know how and to what extent normal functioning might

be impaired and what the likely consequences of biodiversity loss will be the first step is to identify a few key drivers and mechanisms and to build from [climate change and ecosystems threats opportunities and](#) Mar 31 2023 ecosystems play a major role in both of these scenarios extensive and connected ecosystems species and genetic diversity trophic intactness and habitat heterogeneity can buffer the impacts of climate change

[microbial functional diversity from concepts to applications](#) Feb 27 2023 functional diversity is increasingly recognized by microbial ecologists as the essential link between biodiversity patterns and ecosystem functioning determining the trophic relationships and interactions between microorganisms their participation in biogeochemical cycles and their responses to environmental changes

linking network ecology and ecosystem services to benefit Jan 29 2023 ecosystem functions and processes complex interactions between organisms that transfer energy and materials through ecosystems and underpin ecosystem services for example interactions between crops and pollinators drive pollination function that underpins food as an ecosystem service

migratory animals couple biodiversity and ecosystem science Dec 28 2022 we review examples from across the animal kingdom to distill fundamental processes by which migratory animals influence communities and ecosystems demonstrating that they can uniquely alter energy flow food web topology and stability trophic cascades and the structure of metacommunities

[the results of biodiversity ecosystem functioning experiments](#) Nov 26 2022 a large body of research shows that biodiversity loss can reduce ecosystem functioning however much of the evidence for this relationship is drawn from biodiversity ecosystem functioning

the ecosystem approach to health is a promising strategy in Oct 26 2022 we highlight three implications of the ecohealth approach 1 the who definition of health as a state of complete physical mental and social well being emphasized that health is more than the absence of disease

6 ways to ensure ecosystem restoration prioritizes people Sep 24 2022 1 recognize diversity and relations between people the planning implementation and monitoring of ecosystem restoration involves multiple types of people the values priorities motivations and influence of every group especially the ideas of marginalized and indigenous communities must be deeply integrated

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