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Written by leading experts in the field, Trophic Ecology presents a unique synthesis of trophic relationships within and across ecosystems that is a valuable foundation for the development of cross-system, multidisciplinary research. It also provides new insights into population biology and community ecology and examines the interactive effects of bottom-up and top-down forces on biodiversity at each trophic level.

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Trophic Ecology : Bottom-Up and Top-Down Interactions ...

Top down vs Bottom up Trophic Cascade. Trophic cascade is an ecological phenomenon that has significant effect on the overall structure and stability of an ecosystem. The term trophic cascade was coined by the famous American ecologist Robert Paine. Trophic cascade is an indirect effect by predators that changes biomass, abundance or productivity of a population, community at successively lower trophic levels or trophic level across more than one link in a food chain.

Definition of Trophic Cascade? Top down vs Bottom up ...

The top-down control In the top-down control, the populations of the organisms lower trophic levels (bottom of the pyramid) are controlled by the organisms at the top. This approach is also called the predator-controlled food web of an ecosystem. The "top-down" or "bottom-up" refers to the ecological pyramid describing trophic levels.

The top-down vs bottom-up control in an ecosystem - Eco ...

Each stage is a trophic level. Biomass is a measure of the total mass of living material in each trophic level. ... bar for the producer. at the bottom; ... Sample exam questions - ecology - AQA.

Pyramids of biomass - Trophic levels in an ecosystem - AQA ...

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Trophic Ecology: Bottom-Up and Top-Down Interactions ...

We review the recent development of research on bottom-up cascades in terrestrial food webs, focusing on tritrophic systems consisting of plants, herbivorous insects, and natural enemies, and attempt to integrate bottom-up cascade and material transfer among trophic levels. Bottom-up cascades are frequently reported in various tritrophic systems, and are important to determine community structure, population dynamics, and individual performance of higher trophic levels.

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Bottom-up trophic cascades and material transfer in ...

K.S. Christoffersen, in Encyclopedia of Ecology, 2008. Top-Down and Bottom-Up. It is widely recognized that predator control (top-down) prevails at the higher levels of the food web, whereas resource control (bottom-up) is strongest at the lower trophic levels. Events at the topmost level have cascading effects down the food chain.

Bottom-Up Control - an overview | ScienceDirect Topics

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Trophic ecology: Bottom-up and top-down interactions ...

ABSTRACT. Pulsed fluxes of organisms across ecosystem boundaries can exert top-down and bottom-up effects in recipient food webs, through both direct effects on the subsidized trophic levels and indirect effects on other components of the system. While previous theoretical and empirical studies demonstrate the influence of allochthonous subsidies on bottom-up and top-down processes, understanding how these forces act in conjunction is still limited, particularly when an allochthonous ...

Transient top-down and bottom-up effects of resources ...

The importance of body size in trophic ecology, as a determinant of both the occurrence and strength of feeding interactions, has long been acknowledged, but it is only recently that its role in structuring food chains and entire food webs has begun to be explored systematically. This chapter provides an overview of the role of body size in food webs across a range of ecological scales, from effects expressed within the individual populations that are embedded within the food web, to those ...

Trophic Ecology - an overview | ScienceDirect Topics

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Bottom-up and top-down interactions are meant to describe direct interactions among adjacent trophic levels. The trophic cascade is a concept for understanding indirect (i.e., non-adjacent) trophic interactions.

Theoretical perspectives on bottom-up and top-down ...

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One has focused on the population biology and evolutionary ecology of simple food chains of interacting species. The other has focused on bottom-up and top-down controls over the distribution of biomass across trophic levels and other ecosystem-level variables. Here, we propose pathways to bridge these two long-standing perspectives.

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