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All life is chemical. That fact underpins the developing field of ecological stoichiometry, the study of the balance of chemical elements in ecological interactions.
Ecological stoichiometry: The Biology of Elements from Molecules to the Biosphere

Ecological stoichiometry theory studies the balance of multiple chemical elements (mainly carbon, nitrogen, phosphorus) and energy in ecological systems. This balance is crucial for understanding the functioning of ecosystems and the biogeochemical cycles of elements. The theory integrates knowledge from molecular, organismal, and ecosystem levels, providing a framework to study the interactions between different levels of biological organization.

Ecological stoichiometry is an indispensable field for understanding the biology of elements, as it connects the chemistry of molecules to the energy flow in ecosystems. The theory is based on the principle that elements are not just stored in biomass but are also recycled through various trophic levels. This approach helps in predicting how changes in one part of an ecosystem can affect other parts, making it a crucial tool for ecologists and conservationists.

The book "Ecological Stoichiometry: The Biology of Elements from Molecules to the Biosphere" by Robert W. Sterner and James J. Elser provides a comprehensive overview of the field, spanning from the fundamental principles to the latest research findings. It is an essential resource for anyone interested in the dynamics of ecological systems and the interplay between biogeochemical cycles and ecosystem processes.
Ecological stoichiometry is the study of the balance of energy and multiple chemical elements in ecological interactions. Organisms exhibit considerable variation in their elemental composition, which affects their metabolic rates and nutrient requirements. This balance of elements is crucial for the survival and reproduction of organisms and the functioning of ecosystems. Ecological stoichiometry integrates principles from ecology, chemistry, and physiology to understand how elements cycle within ecosystems.
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^ Sterner, Robert W.; Elser, James J.; and Vitousek, Peter. Ecological Stoichiometry: The Biology of Elements from Molecules to the Biosphere.

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