

# Ecological Stoichiometry

THE BIOLOGY OF ELEMENTS FROM  
MOLECULES TO THE BIOSPHERE

ROBERT W. STERNER AND JAMES J. ELSER

WITH A FOREWORD BY PETER VITOUSEK

# Ecological Stoichiometry The Biology Of Elements From Molecules To The Biosphere Paperback

**Richard Bailey**

## **Ecological Stoichiometry The Biology Of Elements From Molecules To The Biosphere Paperback:**

Ecological Stoichiometry Robert W. Sterner, James J. Elser, 2002-11-17 Biochemistry energy flow **Ecological Stoichiometry** Robert Warner Sterner, James J. Elser, Peter Vitousek, 2002-10-01 All life is chemical. That fact underpins the developing field of ecological stoichiometry, the study of the balance of chemical elements in ecological interactions. This long awaited book brings this field into its own as a unifying force in ecology and evolution. Synthesizing a wide range of knowledge, Robert Sterner and Jim Elser show how an understanding of the biochemical deployment of elements in organisms from microbes to metazoa provides the key to making sense of both aquatic and terrestrial ecosystems. After summarizing the chemistry of elements and their relative abundance in Earth's environment, the authors proceed along a line of increasing complexity and scale from molecules to cells, individuals, populations, communities, and ecosystems. The book examines fundamental chemical constraints on ecological phenomena such as competition, herbivory, symbiosis, energy flow in food webs, and organic matter sequestration. In accessible prose and with clear mathematical models, the authors show how ecological stoichiometry can illuminate diverse fields of study from metabolism to global change. Set to be a classic in the field, *Ecological Stoichiometry* is an indispensable resource for researchers, instructors, and students of ecology, evolution, physiology, and biogeochemistry. From the foreword by Peter Vitousek: This book represents a significant milestone in the history of ecology. Love it or argue with it, and I do both; most ecologists will be influenced by the framework developed in this book. There are points to question here, and many more to test, and if we are both lucky and good, this questioning and testing will advance our field beyond the level achieved in this book. I can't wait to get on with it.

*Stoichiometry and Research* Alessio Innocenti, 2012-03-07 The aim of this book is to provide an overview of the importance of stoichiometry in the biomedical field. It proposes a collection of selected research articles and reviews which provide up to date information related to stoichiometry at various levels. The first section deals with host-guest chemistry focusing on selected calixarenes, cyclodextrins and crown ethers derivatives. In the second and third sections the book presents some issues concerning stoichiometry of metal complexes and lipids and polymers architecture. The fourth section aims to clarify the role of stoichiometry in the determination of protein interactions while in the fifth section some selected experimental techniques applied to specific systems are introduced. The last section of the book is an attempt at showing some interesting connections between biomedicine and the environment introducing the concept of biological stoichiometry. On this basis the present volume would definitely be an ideal source of scientific information to researchers and scientists involved in biomedicine, biochemistry and other areas involving stoichiometry evaluation.

The Ecology Book DK, 2019-04-04 Learn about species environments, ecosystems, and biodiversity in *The Ecology Book*. Part of the fascinating Big Ideas series, this book tackles tricky topics and themes in a simple and easy to follow format. Learn about Ecology in this overview guide to the subject, brilliant for novices looking to find out more and experts wishing to refresh their knowledge alike. *The Ecology Book* brings a

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Without Boundaries Willy Ostreng,2010 Science without Boundaries discusses the many issues involved in going beyond disciplinary research practices in science politics and society and addresses the complexities of their interface Governments and politicians are increasingly calling upon the scientific community to deal with global challenges such as climate change poverty international governance peace making et cetera These are calls for interdisciplinary research calls to deal with the interaction of parts in complex systems The book addresses questions like these Does interdisciplinary research fit into the overall disciplinary organization of the sciences Does interdisciplinary research meet the high scientific standards of the research community How does the science community adopt to changing circumstances How responsive is the science community to social and political needs To what extent do governments intervene to influence science What pattern of interaction exists between politics society and research Polar research is used to show how politics may intermingle with science to safeguard national interests in times of dramatic international change    **Ecology** Michael Lee Cain,2008 Environment population interactions communities ecosystem    The Zoological Record ,2003    Fundamental and Applied Limnology ,2007    **Washington Forest Biomass Supply Assessment** ,2011 This report was prepared for Washington Dept of Natural Resources by University of Washington College of the Environment School of Environmental and Forest Sciences and TSS Consultants with financial support from USDA Forest Service    **The British National Bibliography** Arthur James Wells,2003    Who's Who in Science and Engineering 2008-2009 Who's Who Marquis,Marquis Who's Who,2007-12    **South African Journal of Science** ,2003    **Bibliographic Index** ,2006    **Forthcoming Books** Rose Arny,2003    **Canadian Journal of Fisheries and Aquatic Sciences** ,2008    **Nature** Sir Norman Lockyer,2004    *The Software Encyclopedia 2000* Bowker Editorial Staff,2000-05

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