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© 1996-2014, Amazon.com, Inc. or its affiliates @article{Michener1995StableII, title={Stable isotopes in ecology and environmental science}, author={Robert H. Michener and Kate Lajtha}, journal={Journal of Animal Ecology}, year={1995}, volume={64}, pages={540}}Contributors. Abbreviations. Introduction. 1. Stable isotope chemistry and measurement: a primer. Elizabeth W. Sulzman. Introduction. What isotopes are, what makes them distinct. Properties of ecologically useful stable isotopes. Technological advances and current trends in the ecological use of isotopes. Acknowledgments. References. 2. Sources of variation in the stable isotopic composition of plants. John D. Marshall, J. Renee Brooks, and Kate Lajtha. Introduction. Carbon isotopes. Nitrogen... M. Forero, K. HobsonEnvironmental Science2003The utility of this technique is illustrated by considering the particularities of the Mediterranean seabird community, suggesting different ecological questions and conservation problems that could be addressed by using the stable isotope approach in this community.View 1 excerpt, cites backgroundJ. KellyEnvironmental Science, Geography2000Differences in stable-isotope composition among trophic groups were detected despite variation attributable to geographic location, climate, and analytical techniques, indicating that these effects are large and pervasive.View 1 excerpt, cites backgroundA. 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CrowleyEnvironmental ScienceInternational Journal of Primatology2012A cogent overview of stable isotope applications to nonhuman primate feeding ecology is presented and the factors that influence ecological patterns in carbon, nitrogen, and oxygen stable isotopes are reviewed.E. Hobbie, S. Macko, H. ShugartEnvironmental ScienceOecologia1999A model of N dynamics and N isotopes (Nitrogen Isotope Fluxes in Terrestrial Ecosystems, NIFTE), which simulated the major transformations of the N cycle and predicted isotopic signatures of different plant species and soil pools, indicates that the importance of mycorrhizal fungi to N uptake is probably less under conditions of high N availability.It appears that grassland-to-woodland conversion occurred largely within the past 40-120 years, coincident with the intensification of livestock grazing and reductions in fire frequency, suggesting that ecosystem-level changes in vegetation structure, carbon cycling, and hydrology may have implications for regional/global biogeochemistry and climate.R. ConnollyEnvironmental Science2011Stable isotope analysis has been used as a technique to analyse fisheries food webs for a quarter of a century, and remains the principal method for determining energy and nutrient pathways from...View 1 excerpt, cites methodsSHOWING 1-10 OF 93 REFERENCESSORT BYRelevanceMost Influenced PapersRecencyJ. HayesEnvironmental Science1993View 1 excerpt, references backgroundEvidence of the diverse origins of sedimentary organic matter is reported by using an improved form of a previously described technique in which the effluent of a gas chromatograph is continuously analysed isotopically, to demonstrate that isotope variations within sedimentary organics substantially exceed those observed between samples of total organic carbon.View 1 excerpt, references backgroundP. Abelson, T. HoeringEnvironmental ScienceProceedings of the National Academy of Sciences of the United States of America1961Investigation of carbon isotope fractionation in a variety of photosynthetic and nonphotosynthetic organisms, including some grown in the laboratory under controlled conditions and some that had grown in a natural environment finds the effect of isotopic substitution on the physicochemical properties of molecules interesting.K. Hobson, R. ClarkEnvironmental Science1992It is suggested that stable isotope analysis could be used to determine relative contributions of endogenous and exogenous nutrient sources for feather growth and egg production in captive and wild birds. This book highlights new and emerging uses of stable isotope analysis in a variety of ecological disciplines. While the use of natural abundance isotopes in ecological research is now relatively standard, new techniques and ways of interpreting patterns are developing rapidly. The second edition of this book provides a thorough, up-to-date examination of these methods of research. As part of the Ecological Methods and Concepts series which provides the latest information on experimental techniques in ecology, this book looks at a wide range of techniques that use natural abundance isotopes to: follow whole ecosystem element cycling understand processes of soil organic matter formation follow the movement of water in whole watersheds understand the effects of pollution in both terrestrial and aquatic environments study extreme systems such as hydrothermal vents follow migrating organisms In each case, the book explains the background to the methodology, looks at the underlying principles and assumptions, and outlines the potential limitations and pitfalls. Stable Isotopes in Ecology and Environmental Science is an ideal resource for both ecologists who are new to isotopic analysis, and more experienced isotope ecologists interested in innovative techniques and pioneering new uses. Skip to main content Official websites use .gov A .gov website belongs to an official government organization in the United States. Secure .gov websites use HTTPS A lock () or https:// means you've safely connected to the .gov website. Share sensitive information only on official, secure websites. Loading PreviewSorry, preview is currently unavailable. You can download the paper by clicking the button above. No abstract for this paper is available. Citation Download Citation Stephen K. Hamilton "Stable isotopes in ecology and environmental science," Journal of the North American Benthological Society 28(2), 516, (1 June 2009). Published: 1 June 2009

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