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Traditional ecological knowledge and its role in biodiversity conservation: a systematic review

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In various parts of Africa, scholars have paid a great deal of attention to TEK, focusing mainly on their role in biodiversity conservation or natural resource management. Despite individual efforts made so far, the consolidated information about the role of TEK in biodiversity conservation remains uncertain in Africa. A systematic literature search on the role of TEK in biodiversity conservation was conducted on ISI Web of Science (WoS), Scopus and Google Scholar databases. The search produced 40 papers in 12 countries in Africa that were published between 2001 and 2022. Majority of studies on TEK (40%; $n = 16$) reported in the reviewed literature were from West Africa and no study was found in North Africa. The study found the regular use of different but interrelated forms of TEK in Africa. These include taboos and totems, customs and rituals, rules and regulations, metaphors and proverbs, traditional protected areas (social institutions), local knowledge of plants, animals and landscapes, and resource management systems. Although these forms of TEK have great potential for in situ natural resource management, metaphors and proverbs were found to be least addressed ($n = 4$) component of TEK. Despite TEK having played a significant role in biodiversity conservation in present-day Africa, the traditions are being threatened by changing cultural mores and practices (including Christianity and Islam), formal education, modernisation and new political dispensations. The findings of this study demonstrate that large geographic areas remain unexplored and this may hide part of the narrative. Reviewed literature suggests that metaphors and proverbs are least represented. New studies should be dedicated towards filling these gaps. Based on these findings, recommendations are provided to improve management practices for TEK in Africa.

KEYWORDS

traditional ecological knowledge, natural resource management, biodiversity conservation, sacred natural sites, taboos, preservations

1 Introduction

For centuries, indigenous peoples around the globe have had traditional knowledge of their local environment not only to sustain themselves but also to maintain their cultural identity. Even though traditional knowledge has existed for thousands of years, it has only been recognised by the Western scientific community over the past five decades as a valuable source of ecological information (Johnson, 1992). This knowledge is variously labelled as indigenous technical knowledge, ethno-ecology, local knowledge, folk knowledge, traditional knowledge, traditional ecological knowledge (hereafter TEK), and people's science (Berkes, 2008; Joo et al., 2018). Although several terminologies are used in different areas, TEK is probably the most common term in the literature. According to Johnson (1998), TEK gained

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Table of Contents Systematic Ecological Study Of The Hal

1. Understanding the eBook Systematic Ecological Study Of The Hal
 - The Rise of Digital Reading Systematic Ecological Study Of The Hal
 - Advantages of eBooks Over Traditional Books
2. Identifying Systematic Ecological Study Of The Hal
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Systematic Ecological Study Of The Hal
 - User-Friendly Interface
4. Exploring eBook Recommendations from Systematic Ecological Study Of The Hal
 - Personalized Recommendations
 - Systematic Ecological Study Of The Hal User Reviews and Ratings
 - Systematic Ecological Study Of The Hal and Bestseller Lists
5. Accessing Systematic Ecological Study Of The Hal Free and Paid eBooks
 - Systematic Ecological Study Of The Hal Public Domain eBooks
 - Systematic Ecological Study Of The Hal eBook Subscription Services
 - Systematic Ecological Study Of The Hal Budget-Friendly Options

6. Navigating Systematic Ecological Study Of The Hal eBook Formats
 - ePub, PDF, MOBI, and More
 - Systematic Ecological Study Of The Hal Compatibility with Devices
 - Systematic Ecological Study Of The Hal Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Systematic Ecological Study Of The Hal
 - Highlighting and Note-Taking Systematic Ecological Study Of The Hal
 - Interactive Elements Systematic Ecological Study Of The Hal
8. Staying Engaged with Systematic Ecological Study Of The Hal
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Systematic Ecological Study Of The Hal
9. Balancing eBooks and Physical Books Systematic Ecological Study Of The Hal
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Systematic Ecological Study Of The Hal
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Systematic Ecological Study Of The Hal
 - Setting Reading Goals Systematic Ecological Study Of The Hal
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Systematic Ecological Study Of The Hal
 - Fact-Checking eBook Content of Systematic Ecological Study Of The Hal
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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