

REVIEW

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# Trending research topics on carbon footprint and supply chains: a bibliometric analysis based on the Scopus data (2019–2023)

Ismail Abdi Changalima<sup>1\*</sup>, Prisca Pascrates Rutatola<sup>2</sup> and Goodluck Goldian Ntangeki<sup>3</sup>

## Abstract

This study analyzes the publication trend, most active contributors, most influential publications and trending research topics on the current context of carbon footprint and supply chains. The study conducted a bibliometric analysis of 809 documents retrieved from Scopus, published between 2019 and 2023, to identify trends, contributors, top publications, and trending topics. With the help of Harzing's Publish or Perish and VOSviewer, the study employed performance analysis and keyword co-occurrence analysis. The study reveals an upward trajectory in the number of publications in this research domain. Additionally, the study identifies several themes through keyword co-occurrence analysis, including "the application of regulatory mechanisms and game theory in carbon emission reductions," "strategies and mechanisms for enhancing low-carbon initiatives within supply chains," "the development and optimization of sustainable supply chain systems to reduce carbon emissions," "the use of simulation and optimization models for CO<sub>2</sub> emission reduction in supply chain and logistics operations," "financial legislation and mechanisms for improving carbon emission reductions," "the impact of logistics and supply chain operations on carbon emissions and climate change," and "the carbon footprint in supply chains and cold chain logistics operations." This review emphasizes the need of adopting low-carbon technologies to enhance sustainable practices within supply chains. The study highlights the role of advanced technologies in efforts linked to carbon reduction. The study also advocates for a multifaceted policy approach, including encouraging innovation, and implementing financial mechanisms to reduce carbon emissions, especially in logistics and supply chain operations.

**Keywords:** Carbon footprint, Carbon emission, Supply chains, Sustainable supply chain, Low-carbon supply chain, Bibliometrics

## Introduction

Over the past years, environmentalists, academics, and various stakeholders have increasingly focused on environmental impacts and climate change concerns. This is intriguing as the negative impact on the environment

affect biodiversity and human operations on Earth. It has been reported that carbon emissions account for the largest portion of global emissions [1, 2]. Despite efforts being made to address this issue, academics continue to express concerns. Their concerns show that environmental aspects need to be more focused on with efforts from the government, customers, and businesses [3–10]. This triggers aspect related to carbon footprint, which refers to the overall quantity of greenhouse gases, mainly carbon dioxide, released directly or indirectly through human activities [11]. Measuring and managing carbon emission is crucial for reducing environmental impacts and addressing climate change [12–15].

\*Correspondence:  
Ismail Abdi Changalima  
changalima@gmail.com

<sup>1</sup> The University of Dodoma, Dodoma, United Republic of Tanzania

<sup>2</sup> The Local Government Training Institute, Dodoma, United Republic of Tanzania

<sup>3</sup> College of Business Education, Dar Es Salaam, United Republic of Tanzania

# Carbon Footprint Trending

**TD Snyder**



## **Carbon Footprint Trending:**

## Adopting the Melody of Appearance: An Psychological Symphony within **Carbon Footprint Trending**

In a global consumed by screens and the ceaseless chatter of instantaneous transmission, the melodic elegance and emotional symphony created by the prepared term frequently disappear into the background, eclipsed by the persistent sound and distractions that permeate our lives. Nevertheless, located within the pages of **Carbon Footprint Trending** a charming fictional prize brimming with fresh thoughts, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, this captivating masterpiece conducts visitors on a psychological journey, skillfully unraveling the hidden songs and profound affect resonating within each cautiously constructed phrase. Within the depths with this emotional assessment, we will explore the book is key harmonies, analyze its enthralling writing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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### **Table of Contents Carbon Footprint Trending**

1. Understanding the eBook Carbon Footprint Trending
  - The Rise of Digital Reading Carbon Footprint Trending
  - Advantages of eBooks Over Traditional Books
2. Identifying Carbon Footprint Trending
  - 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 Carbon Footprint Trending
  - User-Friendly Interface
4. Exploring eBook Recommendations from Carbon Footprint Trending
  - Personalized Recommendations

- Carbon Footprint Trending User Reviews and Ratings
- Carbon Footprint Trending and Bestseller Lists
- 5. Accessing Carbon Footprint Trending Free and Paid eBooks
  - Carbon Footprint Trending Public Domain eBooks
  - Carbon Footprint Trending eBook Subscription Services
  - Carbon Footprint Trending Budget-Friendly Options
- 6. Navigating Carbon Footprint Trending eBook Formats
  - ePub, PDF, MOBI, and More
  - Carbon Footprint Trending Compatibility with Devices
  - Carbon Footprint Trending Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Carbon Footprint Trending
  - Highlighting and Note-Taking Carbon Footprint Trending
  - Interactive Elements Carbon Footprint Trending
- 8. Staying Engaged with Carbon Footprint Trending
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Carbon Footprint Trending
- 9. Balancing eBooks and Physical Books Carbon Footprint Trending
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Carbon Footprint Trending
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Carbon Footprint Trending
  - Setting Reading Goals Carbon Footprint Trending
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Carbon Footprint Trending
  - Fact-Checking eBook Content of Carbon Footprint Trending

- 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

### **Carbon Footprint Trending Introduction**

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