

REVIEW

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

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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 CO₂ 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].

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Carbon Footprint Trending

Lei Shi



Carbon Footprint Trending:

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In a world eaten by screens and the ceaseless chatter of instant transmission, the melodic splendor and emotional symphony produced by the prepared word often fade in to the background, eclipsed by the persistent sound and interruptions that permeate our lives. However, situated within the pages of **Carbon Footprint Trending** a wonderful literary treasure filled with natural feelings, lies an immersive symphony waiting to be embraced. Constructed by an outstanding musician of language, that captivating masterpiece conducts viewers on a mental journey, skillfully unraveling the concealed songs and profound affect resonating within each carefully crafted phrase. Within the depths of the moving examination, we can examine the book is main harmonies, analyze its enthralling publishing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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