

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^{1*}, Prisca Pascrates Rutatola² and Goodluck Goldian Ntangeki³

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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Ecological Economics Research Trends Carolyn C. Pertsova, 2007 This new book presents important research in the field of ecological economics which is a trans disciplinary field of academic research that addresses the dynamic and spatial interdependence between human economies and natural ecosystems Ecological economics brings together and connects different disciplines within the natural and social sciences but especially between these broad areas Ecological economics presents a more pluralistic approach to the study of environmental problems and policy solutions characterised by systems perspectives adequate physical and biological contexts and a focus on long term environmental sustainability RECENT TRENDS IN CHEMICAL SCIENCES AND ENVIRONMENTAL SCIENCE Dr. Azad Kumar, Dr. Rajesh Kumar Singh, Dr. Yashvant Rao, 2021-11-18 Our intention in publishing this book was to discuss and interpret all of the major issues in the chemical and environmental science disciplines because this book covers such a broad range of chemical and environmental science research area Rather we have selected the themes and challenges briefly defined them and demonstrated how they connect clarified the terminology and indicated where further research may be accessed We hope that the result is an excellent introduction to chemical and environmental science It is primarily aimed towards researchers in chemical science and related fields but it should be accessible to new researchers as well We have explored into more depth on issues that have received little attention elsewhere There are several useful sources for topics such as chemical science environmental science nanotechnology ionic liquids solid waste management photodegradation Nanomaterial adsorption of hazardous metals and conducting polymers However we attempted to provide up to current knowledge we are well aware that books may soon go out of date if they seek to provide too much detail so we concentrated on basic concepts that should not go out of fashion too quickly Our book differs somewhat from other texts in the chemical and environmental sciences in its concentration We have focused on ideas and theories because we feel that a solid grasp of them will be more useful in the long run than specifics of present systems services and approaches We ve also highlighted the dimension since we feel it s critical to understand where the discipline and its components originated from and why some things are the way they are This approach is based on the research with several references provided at the end of each chapter for convenience Our intention is that the content of this book will be sufficient to provide a fundamental knowledge of the entire field and that readers will refer to the references for more information and examples of the parts of which they are most interested The conclusion words and captions as well as the important references at the conclusion of each chapter are intended to present the main points in a factual way Current Trends in Environmental Psychology, volume I, 2nd edition Giuseppe Carrus, Eugenio De Gregorio, Frederica Caffaro, Sabine Pirchio, Lorenza Tiberio, 2023-07-18 This Research Topic is linked to the 3rd International Conference of Environmental Psychology ICEP 2021 to be held in Siracusa Italy 4 9 October 2021 The ICEP is one of the most important scientific events in the global community for experienced scholars junior researchers and

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How to Reduce Your Carbon Footprint Joanna Yarrow, 2008-04-02 *How to Reduce Your Carbon Footprint* is the world citizen s guide to pushing back the advance of global warming This colorful handbook offers 500 practical easily achievable ideas that conserve energy prevent pollution and save money Did you know that unplugging appliances and cell phone chargers when not in use can reduce electricity bills by 10 percent Or that recycling just one glass bottle saves enough power to run a computer for 30 minutes Whether the subject is jet travel dishwashing or any of the 50 topics in the book surprising statistics and innovative graphics will inspire action and demonstrate that simple habits can lead to big results

New Trends in Energy-Economy-Environment System Jun Wu, Wen Zhang, Xiaofeng Xu, Tatsushi Nishi, Ernesto D. R. Santibanez Gonzalez, 2026-03-12 The nexus of Energy Economy and Environment 3E systems is of great importance in the global development scenario In the past decades the problems related to 3E have been studied and evaluated by numerous researchers and practitioners The endorsements of the world of the 2030 Agenda for Sustainable Development Goals proposed by the United Nations Development Organization indicated that the triple helix is more present today than ever before Ensuring affordable and clean energy is the seventh goal of the 2030 Agenda for Sustainable Development in which environmental metrics such as carbon dioxide emissions and use of water resources are important drivers The evolution of the objectives in the SDGs during past decades promotes global members to adopt a holistic and integrated vision while figuring out how to improve and stabilize the economic situation under the restrictions of the natural environment and exhaustible resources This research topic aims to investigate the interrelations between the Economy Energy and Environment 3E from the perspective of sustainable development in an ever changing world and introduce new research methods and perspectives into this area Both frontier and traditional 3E research submissions are welcome We are hoping to read new research in the field of 3E for example research that could address the energy transition issue in the area of sustainable development Research on this topic could help the world understand 3E better the conclusion could be adopted for decision makers at any level on their way to local national or regional sustainable development goals The Topic Editors invite scientists and investigators to contribute original research and review articles on areas which are listed below but are not limited to Environmental pollution control under complex algorithm models Energy storage transportation and risk assessment Mechanism issues centered on policy and management

The interrelations between energy use environmental quality and economic development Environmental issues and sustainable development Energy conservation and emission reduction energy efficiency Sustainable energy supply chain Renewable energy Circular economy and cleaner production **Regional Trends** ,2011 **Global trends** Ingomar Hauchler,Paul M. Kennedy,1994 **Energy Trends** ,2012 **Productivity Trends and the Cost of Reducing CO2 Emissions** William W. Hogan,Dale Weldeau Jorgenson,1990 **Automotive Industry Trends Affecting Component Suppliers** Paul Bailey,International Labour Organisation. Sectoral Activities Programme,2005 Conference papers and proceedings **Climate Action** ,2007 *Comparative Trends in Public Management* ,2006 **Environmental Regulation and the GATT** Jeanne J. Grimmett,1991 **Sixteen Trends, Their Profound Impact on Our Future** Gary Marx,2006 Sixteen Trends Their Profound Impact on Our Future Highlighting key factors which are destined to reshape the world Marx is quick to identify how each of these trends will influence educational policy in various ways With improving academic achievement for ALL students as the main goal Sixteen Trends provides an enlightened look into the learning processes of the children of tomorrow Some of the many issues discussed within its contents include the shift in population demographics and its role in life long learning the need for school curriculum and practices to reflect the dawning of the information age the importance of equilibrium and acceptance of divergent viewpoints in preparing for emerging generations how continuous improvement will replace quick fixes and challenge the status quo theory of education why the globalization of politics and the economy today will mandate the need for interdependence in educational practice When asked about the importance of his book Sixteen Trends author Gary Marx states Linear goals are not enough Looking at tomorrow and seeing it only as a little bit more or a little bit less of today just won t cut it as we move into the future Surrounded by a world filled with discontinuities we desperately need to set at least a few audacious goals the kind that took us to the moon and planets reduced computers from a dozen racks of equipment to a single hand held device and envisioned educational opportunity for all Much of what happens as we break ground on the future will come at us out of the blue We are in a constant unrelenting and exciting race to lay the groundwork for an even brighter future for our children and ourselves We at ERS are pleased to bring you the latest in Marx s groundbreaking series According to ERS President Dr John Forsyth Gary Marx s work provides an impetus for our educational community The ability for ERS to share the information contained within Sixteen Trends is a positive and progressive step in ensuring that we are well prepared in today s educational system for what the future holds

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