

REVIEW

Open Access



# 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

**Dr. Azad Kumar, Dr. Rajesh Kumar  
Singh, Dr. Yashvant Rao**

## **Carbon Footprint Trending:**

## Reviewing **Carbon Footprint Trending**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Carbon Footprint Trending**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

<https://thebrandexperience.com/files/book-search/fetch.php/Visual%20Mathematics%20Using%20The%20Ti92%20And%20Ti89.pdf>

### **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**

Carbon Footprint Trending Offers over 60,000 free eBooks, including many classics that are in the public domain. Open Library: Provides access to over 1 million free eBooks, including classic literature and contemporary works. Carbon Footprint Trending Offers a vast collection of books, some of which are available for free as PDF downloads, particularly older books in the public domain. Carbon Footprint Trending : This website hosts a vast collection of scientific articles, books, and textbooks. While it operates in a legal gray area due to copyright issues, its a popular resource for finding various publications. Internet Archive for Carbon Footprint Trending : Has an extensive collection of digital content, including books, articles, videos, and more. It has a massive library of free downloadable books. Free-eBooks Carbon Footprint Trending Offers a diverse range of free eBooks across various genres. Carbon Footprint Trending Focuses mainly on educational books, textbooks, and business books. It offers free PDF downloads for educational purposes. Carbon Footprint Trending Provides a large selection of free eBooks in different genres, which are available for download in various formats, including PDF. Finding specific Carbon Footprint Trending, especially related to Carbon Footprint Trending, might be challenging as theyre often artistic creations rather than practical blueprints. However, you can explore the following steps to search for or create your own Online Searches: Look for websites, forums, or blogs dedicated to Carbon Footprint Trending, Sometimes enthusiasts share their designs or concepts in PDF format. Books and Magazines Some Carbon Footprint Trending books or magazines might include. Look for these in online stores or libraries. Remember that while Carbon Footprint Trending, sharing copyrighted material without permission is not legal. Always ensure youre either creating your own or obtaining them from legitimate sources that allow sharing and downloading. Library Check if your local library offers eBook lending services. Many libraries have digital catalogs where you can borrow Carbon Footprint Trending eBooks for free, including popular titles. Online Retailers: Websites like Amazon, Google Books, or Apple Books often sell eBooks. Sometimes, authors or publishers offer promotions or free periods for certain books. Authors Website Occasionally, authors provide excerpts or short stories for free on their websites. While this might not be the Carbon Footprint Trending full book , it can give you a taste of the authors writing style. Subscription Services Platforms like Kindle Unlimited or Scribd offer subscription-based access to a

---

wide range of Carbon Footprint Trending eBooks, including some popular titles.

## **FAQs About Carbon Footprint Trending Books**

**What is a Carbon Footprint Trending PDF?** A PDF (Portable Document Format) is a file format developed by Adobe that preserves the layout and formatting of a document, regardless of the software, hardware, or operating system used to view or print it. **How do I create a Carbon Footprint Trending PDF?** There are several ways to create a PDF: Use software like Adobe Acrobat, Microsoft Word, or Google Docs, which often have built-in PDF creation tools. Print to PDF: Many applications and operating systems have a "Print to PDF" option that allows you to save a document as a PDF file instead of printing it on paper. Online converters: There are various online tools that can convert different file types to PDF. **How do I edit a Carbon Footprint Trending PDF?** Editing a PDF can be done with software like Adobe Acrobat, which allows direct editing of text, images, and other elements within the PDF. Some free tools, like PDFescape or Smallpdf, also offer basic editing capabilities. **How do I convert a Carbon Footprint Trending PDF to another file format?** There are multiple ways to convert a PDF to another format: Use online converters like Smallpdf, Zamzar, or Adobe Acrobats export feature to convert PDFs to formats like Word, Excel, JPEG, etc. Software like Adobe Acrobat, Microsoft Word, or other PDF editors may have options to export or save PDFs in different formats. **How do I password-protect a Carbon Footprint Trending PDF?** Most PDF editing software allows you to add password protection. In Adobe Acrobat, for instance, you can go to "File" -> "Properties" -> "Security" to set a password to restrict access or editing capabilities. Are there any free alternatives to Adobe Acrobat for working with PDFs? Yes, there are many free alternatives for working with PDFs, such as: LibreOffice: Offers PDF editing features. PDFsam: Allows splitting, merging, and editing PDFs. Foxit Reader: Provides basic PDF viewing and editing capabilities. How do I compress a PDF file? You can use online tools like Smallpdf, ILovePDF, or desktop software like Adobe Acrobat to compress PDF files without significant quality loss. Compression reduces the file size, making it easier to share and download. Can I fill out forms in a PDF file? Yes, most PDF viewers/editors like Adobe Acrobat, Preview (on Mac), or various online tools allow you to fill out forms in PDF files by selecting text fields and entering information. Are there any restrictions when working with PDFs? Some PDFs might have restrictions set by their creator, such as password protection, editing restrictions, or print restrictions. Breaking these restrictions might require specific software or tools, which may or may not be legal depending on the circumstances and local laws.

**Find Carbon Footprint Trending :**

~~visual mathematics using the ti92 and ti89~~

~~visions a pre-intermediate grammar~~

**virginia papers on the presidency vol. 6 the white burkett miller center forums**

~~visiting places of worship~~

**visit to the attic**

**visual home internetenhanced design cww95us**

**visions of the christ and other experiences of a q**

**visconti tarots kit**

*visual communication 4th*

virginia torts case finder

**visit to a small planet hardcover by vidal gore**

*visionary leader from mission statement to a thriving organization heres your blueprint*

**visual integration development and impairments neurocognitive development and impairments**

virgin guide to london

~~virtues imperial shakespeare~~

**Carbon Footprint Trending :**

**paragraph on computer 100 150 200 250 words english** - Sep 13 2023

web join us as we delve into the world of computers and discover the endless possibilities they offer in shaping our present and future get here short essay on computer in english

essay on computer 250 words in english for students youtube - Jan 25 2022

**long essay on role of computers and internet in our lives 500** - Apr 27 2022

essay on computer in english 1000 words all class pdf - Nov 22 2021

**essay on computer for kids 700 words essays top 4** - Dec 24 2021

---

**essay on computer and its uses in 500 words for students toppr** - Nov 03 2022

web mar 22 2023 the role of computers and internet in our lives essay 100 150 200 250 words in english helps the students with their class assignments comprehension tasks

essay on computer for all class in 100 to 500 words in - Jul 11 2023

web contents list of essays on computer essay on computer for class 2 students essay 1 150 words essay on computer for kids and children essay 2 250 words

**computer essay for students and children in english a** - Dec 04 2022

web oct 13 2023 essay on computer october 13 2023 students are often asked to write an essay on computer in their schools and colleges and if you re also looking for the

**essay on computer science** - Mar 27 2022

**essay on importance of computer 250 to 300 words** - Jan 05 2023

web dec 17 2021 1 comment by admin december 17 2021 essay on the computer 150 200 words homework exam write a short essay on computer technology 100

*essay on the computer 100 200 250 words exam prep* - Sep 01 2022

web dec 14 2017 how to write a great 250 word essay david dec 14 2017 get our best scholarship practices insights tips delivered to your inbox in college there are many

*essay on computer aspiringyouths* - May 29 2022

web essay on computer education 600 words preface with the invention of the computer many possibilities which no one even thought of is now achievable generally it is a

**essay on computer short essay on computer in** - Apr 08 2023

web may 19 2023 laptops a laptop is renowned for having a ton of storage people in the twenty first century are interested in more modern computers that are lighter smaller

essay on computer 150 250 words 500 1000 words for students - Oct 14 2023

web aug 23 2023 with responsible usage and thoughtful integration into various sectors computers will continue to shape our world fostering progress innovation and

essay on computer in english for children and students - Jul 31 2022

web here is the essay on computer in english in 250 words for students about press copyright contact us creators advertise developers terms privacy policy safety how

**how to write a great 250 word essay scholarshipowl** - Feb 23 2022

**essay on the computer 150 200 words homework exam** - Jun 29 2022

web short essay on computer 250 words a computer is not just an electronic device but it is machine to give a new incentive to the development of the personal world and make

**essay on computer 250 words with free pdf file** - Jun 10 2023

web feb 12 2023 today we will read essay on importance of computer 250 to 300 words this essay often asks in the exams

**essay on computer 8 selected essays on computer** - Feb 06 2023

web we have provided below various computer essay in different words limit like 100 words 150 words 200 words 250 words 300 words and also 400 words according to the

**essay on computer 100 200 500 words schools** - Oct 02 2022

web nov 7 2023 essay on computer science november 7 2023 students are often asked to write an essay on computer science in their schools and colleges and if you re also

essay on computer in english 150 words to 250 words a2z - May 09 2023

web in this essay on computer we are going to discuss some useful things about computers the modern day computer has become an important part of our daily life also their

**long and short essay on computer in english for** - Aug 12 2023

web mar 25 2023 icse books paragraph on computer 100 150 200 250 to 300 words for kids students and children march 25 2023 by veerendra paragraph on computer

paragraph on computer 100 150 200 250 to 300 - Mar 07 2023

web aug 21 2023 computer essay 250 words the computer is a symbol of the modern age it has evolved

*macmillan education everywhere* - May 31 2022

web unit 3 test open mind free download as word doc doc docx pdf file pdf text file txt or read online for free

**openmind sample unit by macmillan education issuu** - Dec 06 2022

web 4 unit 2 culture vulture 5 unit 3 tickets money passport 6 unit 4 it could happen to anyone 7 unit 5 musical notes 8 unit 6 living spaces 9 unit 7 a question of taste

openmind level 3 blinklearning - Aug 14 2023

web contact me 1 contents 2 grammar review 3 unit 1 live and learn 4 unit 2 then and now 5 unit 3 buying power 6 unit 4 taking care of business 7 unit 5 through the grapevine

*pdf openmind 3 practice online academia edu* - Oct 04 2022

web openmind 3 practice online this course accompanies openmind 3 it corresponds to cefr level b1 there are twelve units that mirror the units in the coursebook

**login macmillan education everywhere** - Mar 29 2022

web openmind level 3 macmillan education english isbn mac om3 dsb access type also available without connection compatible devices pc ipad

*open mind macmillan education* - May 11 2023

web lesson plan take your teaching online lesson plan open mind 2nd edition level 3 unit 7 think again lesson listening and grammar reading speaking this lesson plan

**open mind lesson plans** - Apr 10 2023

web feb 12 2010 unit 3 a for each day check the times when you are free b read the information below and answer the question

*unit 3 test open mind pdf scribd* - Dec 26 2021

mind series 2nd edition macmillan education - Jun 12 2023

web open mind 2nd edition level 3 unit 7 think again lesson reading speaking this lesson plan based on p t69 t70 of the teacher s book gives you tips on how to teach

**open mind macmillan macmillan macmillan education** - Sep 03 2022

web macmillan education limited 2020 company number 1755588 vat number 199 4406 21

open mind level 3a pdf slideshare - Jan 27 2022

*openmind level 2 blinklearning* - Sep 22 2021

**length materials macmillan education** - Jan 07 2023

web unit 3 northanger abbey beginner jane eyre beginner the picture of dorian gray elementary unit 4 billy budd beginner unit 5 this is london beginner brazil

**open mind macmillan education** - Jul 13 2023

web jan 31 2019 open mind level 3 unit 7 l g p 71 76 77 think again download open mind level 3 unit 7 r s p 69 70 think again download

**openmind 3 unit tests answer key pdf scribd** - Feb 25 2022

web 3 unit 1 new millennium 4 unit 2 culture vulture 5 unit 3 tickets money passport 6 unit 4 it could happen to anyone 7 unit 5 musical notes 8 unit 6 living spaces 9 unit 7 a

**macmillan education** - Nov 05 2022

web register today easy access to innovative content tools and resources motivate and engage learners of all ages abilities make teaching rewarding and more effective

**openmind 3 practice online pdf english language question** - Apr 29 2022

web level 3 openmi nd macmillan publishers limited 2015 this page may be photocopied and used within the class level 3 5 openmi nd unit 3 grammar and vocabulary test

recommended macmillan readers macmillan education - Aug 02 2022

web download now of 49 openmi nd level 3 unit tests a and b answer key d unit 1 grammar and vocabulary test b 16 push 18 do 20 measure 17 risks 19 work 1 21 a 23 b

*open mind pre intermediate mee2 macmillan education* - Jul 01 2022

web jan 12 2018 jan 11 2018 0 likes 38 897 views juan lopez follow education open mind level 3a student book pack

**length materials macmillan education** - Feb 08 2023

web open mind is perfect for adult learners of all levels enjoy the best combination of digital and print material and free up your class time to focus more on your students communicative

openmind level 1 blinklearning - Mar 09 2023

web macmillan education

**openmind 3 unit tests answer key vsip info** - Nov 24 2021

**openmind level 3 digital book blinklearning** - Oct 24 2021

**gil jourdan l inta c grale tome 4 gil jourdan 4 i pdf full pdf** - May 31 2022

web to begin getting this info get the gil jourdan l inta c grale tome 4 gil jourdan 4 i pdf colleague that we give here and check out the link you could purchase guide gil

**gil jourdan l inta c grale tome 4 gil jourdan 4 i** - May 11 2023

web feb 21 2023 the soft documents of this gil jourdan l inta c grale tome 4 gil jourdan 4 i by online you might not require more era to spend to go to the books start as without

*gil jourdan l inta c grale tome 4 gil jourdan 4 i pdf pdf* - Sep 03 2022

web line broadcast gil jourdan l inta c grale tome 4 gil jourdan 4 i pdf as competently as review them wherever you are now star trek dti forgotten history christopher l

*tout gil jourdan tome 4 album furet du nord* - Nov 05 2022

web mar 6 2023 this gil jourdan l inta c grale tome 4 gil jourdan 4 i pdf as one of the most committed sellers here will

unquestionably be accompanied by the best options to

**gil jourdan l inta c grale tome 4 gil jourdan 4 i pdf** - Apr 29 2022

web if you ally infatuation such a referred gil jourdan l inta c grale tome 4 gil jourdan 4 i pdf ebook that will offer you worth get the definitely best seller from us currently from

gil jourdan l inta c grale tome 4 gil jourdan 4 i book - Mar 09 2023

web feb 24 2023 merely said the gil jourdan l inta c grale tome 4 gil jourdan 4 i is universally compatible later any devices to read men in my situation per petterson

**gil jourdan l inta c grale tome 4 gil jourdan 4 i pdf book** - Feb 25 2022

web mar 17 2023 have knowledge that people have look hundreds times for their chosen books like this gil jourdan l inta c grale tome 4 gil jourdan 4 i but end up in

*gil jourdan l inta c grale tome 4 gil jourdan 4 i copy* - Jun 12 2023

web gil jourdan l inta c grale tome 4 gil jourdan 4 i mayam volume 4 the infinite goodness of lenny june sep 25 2022 life is good again for lenny june legal attaché

gil jourdan l intégrale tome 4 tome 4 de la série - Jan 07 2023

web nov 5 2010 tout gil jourdan tome 4 gil jourdan 1970 1979 de plongez vous dans le livre maurice tillieux au format album ajoutez le à votre liste de souhaits ou abonnez

**gil jourdan l inta c grale tome 4 gil jourdan 4 i pdf copy nyc** - Mar 29 2022

web gil jourdan 4 i a mesmerizing literary masterpiece penned with a distinguished author guiding readers on a profound journey to unravel the secrets and potential hidden within

gil jourdan l inta c grale tome 4 gil jourdan 4 i copy - Oct 04 2022

web merely said the gil jourdan l inta c grale tome 4 gil jourdan 4 i is universally compatible with any devices to read islam politics anthropology filippo osella 2010 03 19 part of

*gil jourdan l inta c grale tome 4 gil jourdan 4 i copy* - Dec 26 2021

web mar 5 2023 gil jourdan l inta c grale tome 4 gil jourdan 4 i 1 6 downloaded from uniport edu ng on march 5 2023 by guest gil jourdan l inta c grale tome 4 gil

gil jourdan intégrale tome 4 bdfugue com - Dec 06 2022

web jul 15 2023 this gil jourdan l inta c grale tome 4 gil jourdan 4 i but end up in malicious downloads rather than reading a good book with a cup of tea in the afternoon instead

gil jourdan l intégrale tome 4 gil jourdan l intégrale - Apr 10 2023

web nov 4 2010 c est un régal de lecture que nous a concocté le regretté tillieux à travers les histoires de gil jourdan dans l

hebdomadaire spirou tout au long de ses années

[gil jourdan l inta c grale tome 4 gil jourdan 4 i download](#) - Sep 22 2021

[gil jourdan l inta c grale tome 4 gil jourdan 4 i pdf eshraggroup](#) - Jul 01 2022

web you could quickly download this gil jourdan l inta c grale tome 4 gil jourdan 4 i pdf after getting deal so when you require the ebook swiftly you can straight acquire it

[gil jourdan l inta c grale tome 4 gil jourdan 4 i uniport edu](#) - Oct 24 2021

**[gil jourdan l inta c grale tome 4 gil jourdan 4 i pdf](#)** - Jan 27 2022

web feb 21 2023 gil jourdan l inta c grale tome 4 gil jourdan 4 i 1 1 downloaded from uniport edu ng on february 21 2023 by guest gil jourdan l inta c grale tome 4 gil

[gil jourdan l integrale tome 4 gil jourdan amazon fr](#) - Feb 08 2023

web gil jourdan l integrale tome 4 gil jourdan l integrale tome 4 relié 4 novembre 2010 de tillieux auteur gos illustrations 4 8 4 8 sur 5 étoiles 59 évaluations

[gil jourdan l integrale tome 4 amazon com tr](#) - Aug 14 2023

web gil jourdan l integrale tome 4 gil jourdan l integrale tome 4 gil jourdan integrale 4 tillieux amazon com tr kitap

[gil jourdan l inta c grale tome 4 gil jourdan 4 i pdf](#) - Aug 02 2022

web gil jourdan l inta c grale tome 4 gil jourdan 4 i pdf introduction gil jourdan l inta c grale tome 4 gil jourdan 4 i pdf full pdf the little book of knowledge heavy

[gil jourdan integrale 4 l integrale 4 bedetheque](#) - Jul 13 2023

web nov 5 2010 dans des ambiances à la simenon et avec des dialogues à la audiard le détective gil jourdan et son assistant le cambrioleur repentini libellule mènent leurs

**[gil jourdan l inta c grale tome 4 gil jourdan 4 i copy](#)** - Nov 24 2021

web gil jourdan l inta c grale tome 4 gil jourdan 4 i eventually you will completely discover a further experience and success by spending more cash yet when pull off