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Global Trends in Organic Food Research: A Bibliometric Analysis

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ABSTRACT

The global demand for organic food has steadily increased over the past two decades, driven by growing awareness of health, environmental sustainability, and ethical production. This research examines the integration of bibliometric methodologies with the PRISMA model to identify key research trends in the field of organic food studies. The PRISMA model ensures methodological rigor by systematically mapping relevant search strings and keywords, which narrows down the vast number of articles to those directly addressing organic food and its associated dimensions. A bibliometric approach is then employed to analyze journal performance, co-authorship patterns, co-citation networks, and thematic clusters in organic food research. Results reveal a growing interest in organic food studies, with sustainability, health benefits, certification processes, and global market trends emerging as dominant themes. Notably, key clusters include discussions on alternative agriculture, the implications of climate change, and consumer behavior related to health and environmental consciousness. Thematic mapping highlights "sustainable development" and "certification standards" as key themes driving the field forward. In contrast, niche themes such as "non-timber forest products" indicate potential for future exploration and development. This research underscores the significance of bibliometric methodologies in ensuring objectivity and reliability in evaluating academic contributions. By identifying research gaps and dominant trends, the study provides a roadmap for future investigations in organic food research, highlighting the value of integrating bibliometric analyses with systematic review frameworks, such as PRISMA. This approach enhances the precision and depth of research in this rapidly evolving domain.

INTRODUCTION

The global demand for organic food has surged over the past two decades, driven by shifting consumer preferences and growing awareness of health, environmental sustainability, and ethical production practices. Consumers are increasingly drawn to food products that are free from synthetic chemicals, pesticides, and artificial additives and are grown through environmentally friendly practices (Li et al., 2019). This growing

preference highlights a shift toward more conscious consumption patterns, where health and environmental concerns influence purchasing decisions. As a result, the steadily growing organic food market has become a successful concept in the food industry, aligning with the increasing focus on sustainability in product development (Nagy et al., 2022). This shift in consumption behavior not only shapes the global organic food market but also stimulates significant research interest across various disciplines, including agriculture, public health, environmental science, and consumer behavior.

Organic food is defined in various ways depending on the perspective. Some authors focus on the biological or natural aspects of production, emphasizing farming methods that avoid synthetic chemicals and genetically modified organisms (GMOs), prioritizing soil health and biodiversity. (Magkos et al., 2003). Others associate organic food with green concepts and environmental sustainability, recognizing its role in reducing environmental impacts, conserving resources, and addressing climate change. (Snyder & Spaner, 2010). This view links organic practices to broader ecological goals, aiming for a sustainable balance between food production and environmental health. Another key perspective highlights the absence of artificial chemicals in organic farming, distinguishing it from conventional agriculture, which uses synthetic pesticides and fertilizers. (Gomiero, 2013). This approach highlights the health benefits of organic food, such as reduced chemical residues, which is particularly important for vulnerable populations.

In the global organic food market, European Union countries hold the second-largest position after the United States. (Rūtelionė & Bhutto, 2024). Notably, developed European nations such as Italy and the United Kingdom have reported significant revenue growth in organic food sales, with increases of 10.5% and 6%, respectively, in 2017 (Rūtelionė & Bhutto, 2024). Regionally, Asia leads in the number of organic food producers, accounting for 40% of the global total, and is the third-largest organic food market worldwide. (Willer et al., 2023). Among developing countries, Bangladesh exhibits rapid growth, with its organic food market projected to reach $50 million by 2025 (Kalam et al., 2025). This geographic diversity reflects the widespread adoption of organic food driven by varying socio-economic contexts. Developed nations focus on health and environmental benefits, while developing regions highlight market potential and economic opportunities, further underscoring the global shift toward sustainable consumption.

The growing interest in organic food is reflected in the increasing number of scientific publications that address various aspects of its production, marketing, and consumption. Over the past two decades, studies have increasingly explored the role of organic food in promoting sustainability, health benefits, and economic opportunities, with research output showing exponential growth globally (Thøgersen et al., 2015). This proliferation of studies, while valuable, has also created challenges in synthesizing and identifying dominant trends, emerging themes, and knowledge gaps. To address these challenges, bibliometric analysis has become an essential tool for evaluating and measuring the growth of literature in a specific field. As a statistical method, bibliometrics

analyzes bibliographic information to assess patterns and trends within research output (Wallin, 2005). It provides a systematic approach to understanding the scientific relationships among publications, tracing their influence and connections across disciplines (DJ, 1965). In the context of organic food research, bibliometrics offers valuable insights into the evolution of topics, the identification of key contributors, and the mapping of collaboration networks. This approach not only highlights dominant themes and emerging areas but also helps pinpoint gaps in the existing body of knowledge. By leveraging bibliometric analysis, researchers can better navigate the rapidly expanding literature, enabling more focused and impactful investigations into the global significance of organic food.

According to Sahala et al., (2024) This bibliometric analysis offers a comprehensive overview of the research landscape regarding the utilization of renewable energy in food production processes. These findings underscore the growing importance of adopting sustainable energy in agriculture and food production, with a significant increase in research activity in recent years. Key contributors, institutions, and collaborative networks have played a crucial role in advancing knowledge in this area.

While prior studies have assessed organic food research trends using qualitative reviews, this study offers a novel approach by integrating bibliometric methodologies with systematic review frameworks. The use of the PRISMA model enhances methodological rigor, ensuring an objective and comprehensive analysis. By identifying research gaps and thematic clusters, this study provides a roadmap for future investigations in organic food research, emphasizing the role of sustainable development and consumer behavior dynamics.

The urgency of this research stems from the rapid expansion of the organic food industry and the need for evidence-based policymaking. As governments and international organizations strive to promote sustainable agricultural practices, a systematic analysis of existing research is crucial for informed decision-making. Additionally, addressing consumer skepticism and regulatory challenges is crucial for fostering trust and driving long-term market growth in the organic food sector.

This study aims to analyze the dominant themes in organic food research using bibliometric methodologies, identify key research gaps and emerging trends in organic food studies, assess the role of sustainability and consumer behavior in shaping organic food market dynamics, and provide a structured framework for future research in organic food development.

The findings of this study offer several contributions to academia, industry, and policymakers, enhancing the understanding of research trajectories in organic food studies. This helps stakeholders optimize market strategies based on consumer preferences and sustainability considerations, as well as inform policy recommendations. Additionally, It Informs regulatory bodies on emerging challenges and best practices for organic food certification and trade policies. By integrating bibliometric methodologies with systematic review frameworks, this study provides a robust analytical foundation for future research in organic food.

RESEARCH METHODS

The research method, which utilizes bibliometric analysis, involves systematically collecting and evaluating bibliographic data from reputable academic databases, such as Scopus. Bibliometric methods, known for their quantitative nature, effectively address the issue of sample selection bias often found in systematic reviews. Additionally, they are well-suited for evaluating journal performance, mapping co-authorship networks, analyzing co-citation patterns, and uncovering key research trajectories within specific disciplines. (Khan et al., 2022). The process begins by identifying and extracting relevant publications related to organic food research from these databases. The collected data is then analyzed using bibliometric tools to calculate key indicators such as citation counts, co-authorship networks, and keyword frequencies. By examining these indicators, researchers can identify trends in publication volumes, discover influential authors and journals, and track the progression of research topics over time. (Passas, 2024). Bibliometric analysis also helps uncover research clusters and patterns of international collaboration, as well as assess the impact of research outputs. This approach provides a comprehensive overview of the organic food research landscape, offering valuable insights that inform future research directions and policy development. (Donthu et al., 2021).

Specifically, the analysis was carried out utilizing the 'Bibliometrics' package integrated within RStudio, accompanied by its interactive visualization interface, 'Biblioshiny' (Aria & Cuccurullo, 2017). This software facilitates the generation of comprehensive visual representations, enabling a deeper understanding of the data and providing valuable insights to guide both current investigations and prospective research directions. The data collection for this bibliometric analysis was conducted with a systematic online search for relevant publications in the Scopus database. The search process utilized predefined topics and keywords aligned with the research objectives. Scopus was chosen for its comprehensive coverage of scholarly articles, particularly in the fields of business, management, and related disciplines, making it an optimal source for bibliometric analysis. (Ahi & Searcy, 2013). By utilizing Scopus, the bibliometric analysis is positioned to gather a robust set of articles that meet the inclusion criteria.

The bibliometric analysis in this study focuses on five key topics to ensure comprehensive coverage of research on organic food. Table 1 presents the detailed information regarding the search strings.

Table 1. Topic Keywords

Topic	Keywords
Sustainable Product Attributes	("Organic" OR "Natural" OR "Eco-Friendly")
Sustainable Agricultural Practices	("Sustainable" OR "Agriculture" OR "Farming")
Regulatory Framework and Consumer Trust	("Certification" OR "Labelling" OR "Claim" OR "Standard")
Health and Nutritional Benefits	("Health" OR "Benefit" OR "Food" OR "Nutritional" OR "Value")
Global Market Trends and Consumer Preferences	("Global" OR "Market")

Topic	Keywords
Complete String	("Organic" OR "Natural" OR "Eco-Friendly") AND ("Sustainable" OR "Agriculture" OR "Farming") AND ("Certification" OR "Labelling" OR "Claim" OR "Standard") AND ("Health" OR "Benefit" OR "Food" OR "Nutritional" OR "Value") AND ("Global" OR "Market")

Source: Data processed

Performing a bibliometric analysis necessitates a thorough evaluation of article quality to ensure that only the most pertinent literature is selected. This process involves following specific steps designed to identify and filter articles that align with predefined research criteria. A systematic approach is crucial to maintain the rigor and relevance of the analysis. Table 2 provides a comprehensive overview of the procedures used to screen and select articles based on these criteria, ensuring consistency and reliability in the selection process.

Table 2. Article Criteria

Criteria	Included paper	Excluded paper
Research focus	Articles that focus on organic food, covering topics such as production, consumption, sustainability, health impacts, market dynamics, and related policies	Articles that do not directly address organic food, such as those focused solely on conventional agriculture, genetically modified organisms (GMOs), synthetic food production, or unrelated food systems
Characteristics	Journal articles	Non-article documents (conference papers, book chapters, or notes)
Language	Articles written in English	Articles written in a language other than English

Source: Data processed

The PRISMA model is utilized to ensure methodological rigor and the reliability of bibliometric results. (Camilleri et al., 2023). This approach provides a systematic framework for selecting and filtering literature, ensuring that only relevant articles are included in the analysis. In the context of organic food research, the use of meticulously designed keywords and strategically mapped search strings becomes a critical component. This process aims to narrow down the extensive range of available articles into a more focused collection of literature, specifically addressing various dimensions of organic food research, such as sustainability, health benefits, or market preferences. By doing so, this methodology not only enhances the accuracy of the results but also facilitates more profound insights into the targeted issues within the domain of organic food studies.

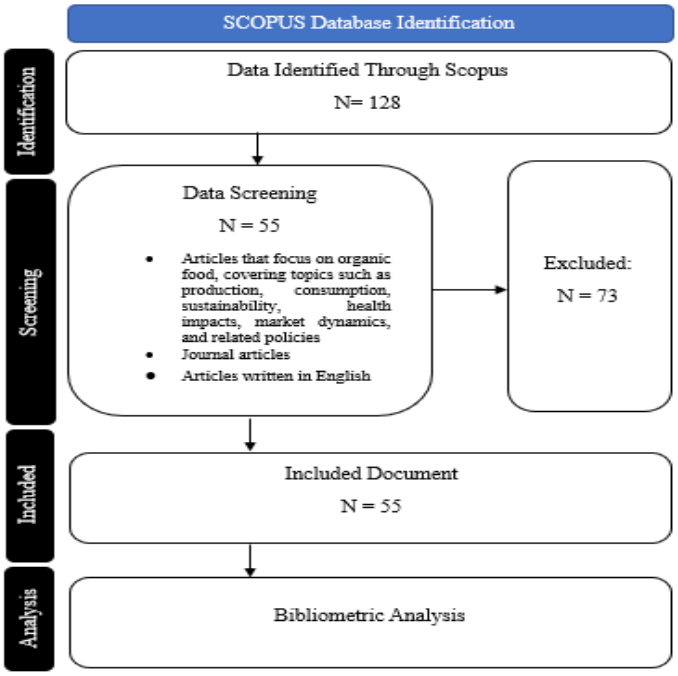

Figure 1. PRISMA Flow Diagram

RESULTS AND DISCUSSION

Table 3. Main Information Data

Description	Result
Timespan	1997-2024
Sources (Journals)	46
Documents	55
Annual Growth Rate	6.14
Document Average Age	8.78
Average Citations Per Doc	29.05
References	0
DOCUMENT CONTENTS	
Keyword Plus (ID)	594
Author's Keywords (DE)	282
AUTHORS	
Authors	163
Authors of Single-Authored Docs	18
AUTHORS COLLABORATION	
Single-Authored Docs	18
Co-Authors per Doc	2.98
International Co-Authorships %	27.27
DOCUMENT TYPES	
Article	55

Source: Data processed

The bibliometric analysis of organic food research trends provides comprehensive insights into the field's development and impact. Covering the period from 1997 to 2024, the dataset includes 55 documents sourced from 46 journals, books, and other publications. The field has experienced consistent growth, with an annual growth rate of 6.14%, reflecting increasing academic interest. The average age of the documents is 8.78 years, while the average citation rate stands at 29.05 citations per document, highlighting the substantial influence of this body of work. The inclusion of 594 "Keywords Plus" and 282 author-defined keywords demonstrates the thematic breadth and depth of the research.

Authorship and collaboration patterns further underscore the dynamic nature of this domain. Contributions are from 163 authors, with 18 documents produced by a single author. Collaborative research is prominent, with an average of 2.98 co-authors per document and 27.27% of publications involving international co-authorship, emphasizing the global relevance of organic food research. All documents are classified as articles, indicating the scholarly focus of the field. These findings collectively illustrate the robust growth, interdisciplinary engagement, and significant academic impact of organic food research, positioning it as a critical area for addressing global challenges related to sustainable food systems.

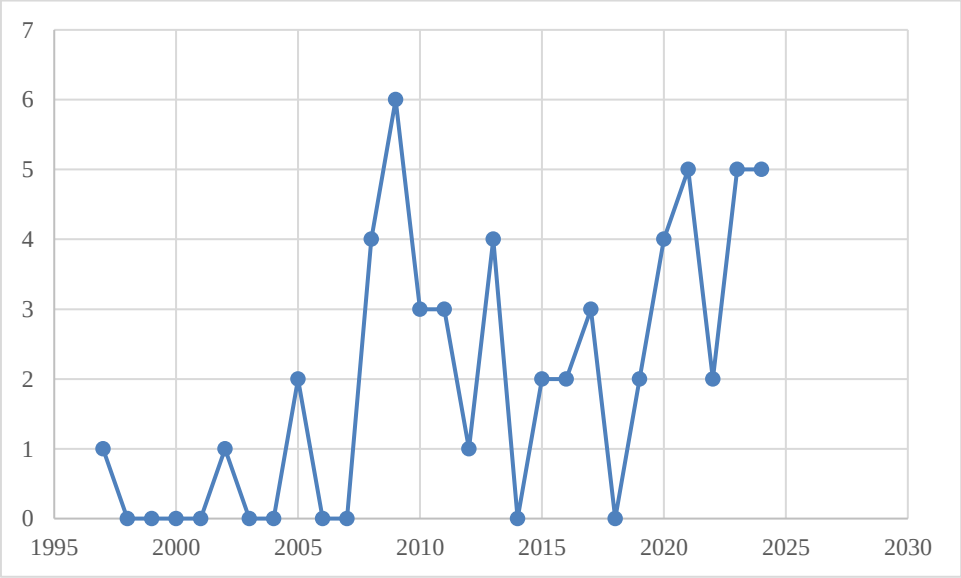

Figure 2. Publication Trends

The publication trend displayed in the graph illustrates a fluctuating but generally upward trajectory in organic food research over time. From the late 1990s to the early 2000s, the number of publications was minimal, reflecting the nascent stage of academic interest in this field. A noticeable increase began around 2009, with a significant peak shortly thereafter. This surge suggests a growing recognition of organic food as a critical

topic within academic and societal discourse, likely influenced by rising global awareness of sustainable agricultural practices and health-conscious consumption.

Although intermittent declines are evident in subsequent years, the overall trend indicates a sustained growth in publication output. Notably, from 2019 onwards, the research output stabilizes at a higher level, marking a period of consistent academic engagement. This progression aligns with the increasing urgency of addressing challenges related to food security, environmental sustainability, and consumer preferences for organic products. The upward trend underscores the evolving importance of organic food research as a key area of interdisciplinary investigation.

Table 4. Publication Source

Publication Source	Number of Publication(s)
JOURNAL OF CLEANER PRODUCTION	4
RENEWABLE AGRICULTURE AND FOOD SYSTEMS	3
WORLDWATCH PAPER	3
FOREST POLICY AND ECONOMICS	2
SUSTAINABILITY (SWITZERLAND)	2
ACTA HORTICULTURAE	1
ADVANCES IN SUSTAINABILITY AND ENVIRONMENTAL JUSTICE	1
ANIMAL WELFARE	1
BIOLOGICAL REVIEWS	1
CURRENT PERSPECTIVES IN SOCIAL THEORY	1
DENVER LAW REVIEW	1
ENERGY AND ENVIRONMENT	1
ENTERPRISE AND SOCIETY	1
ENVIRONMENT AND PLANNING A	1
ENVIRONMENT AND PLANNING C: GOVERNMENT AND POLICY	1
ENVIRONMENTAL SCIENCE AND ENGINEERING (SUBSERIES: ENVIRONMENTAL SCIENCE)	1
ENVIRONMENTAL SCIENCE AND TECHNOLOGY	1
ETHIOPIAN JOURNAL OF HEALTH DEVELOPMENT	1
FOOD RESEARCH	1
FOODS	1
FUTURE OF FOOD: JOURNAL ON FOOD, AGRICULTURE AND SOCIETY	1
GENDER AND DEVELOPMENT	1
GEOFORUM	1
INDIAN JOURNAL OF AGRONOMY	1
INTERNATIONAL JOURNAL OF SUSTAINABLE DEVELOPMENT AND PLANNING	1

Publication Source	Number of Publication(s)
JOURNAL OF AGRARIAN CHANGE	1
JOURNAL OF CHROMATOGRAPHY B: ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES	1
JOURNAL OF ENVIRONMENTAL MANAGEMENT	1
JOURNAL OF FISH BIOLOGY	1
JOURNAL OF FOOD SCIENCE	1
LONG RANGE PLANNING	1
MICROBIAL BIOTECHNOLOGY	1
NATO SCIENCE FOR PEACE AND SECURITY SERIES A: CHEMISTRY AND BIOLOGY	1
NJAS - WAGENINGEN JOURNAL OF LIFE SCIENCES	1
OECONOMIA COPERNICANA	1
OPEN AGRICULTURE	1
PROGRESS IN PHOTOVOLTAICS: RESEARCH AND APPLICATIONS	1
ROCZNIK OCHRONA SRODOWISKA	1
SCIENTIFIC HORIZONS	1
SHENGTAI XUEBAO/ ACTA ECOLOGICA SINICA	1
SOCIAL RESPONSIBILITY JOURNAL	1
SUSTAINABLE PRODUCTION AND CONSUMPTION	1
TECHNOLOGY ANALYSIS AND STRATEGIC MANAGEMENT	1
WASTE MANAGEMENT AND RESEARCH	1
WATER RESEARCH	1
ZYWNOSC. NAUKA. TECHNOLOGIA. JAKOSC/FOOD. SCIENCE TECHNOLOGY. QUALITY	1

Source: Data processed

The analysis of publication sources reveals a diverse range of journals contributing to the field of organic food research, reflecting the interdisciplinary nature of this domain. The Journal of Cleaner Production leads in publication frequency, with four articles, underscoring its prominent role in addressing sustainability and environmentally conscious production practices within the organic food sector. Other high-contributing sources, such as Renewable Agriculture and Food Systems and Worldwatch Paper, each with three articles, further emphasize the alignment of organic food research with themes of renewable resources and sustainable agricultural systems.

A significant number of journals have contributed one or two articles, demonstrating the broad scientific and thematic scope of this research area. These journals span diverse fields, including environmental science (Environmental Science and

Technology, Water Research), agriculture (NJAS - Wageningen Journal of Life Sciences, Indian Journal of Agronomy), food science (Journal of Food Science, Food Research), and policy studies (Forest Policy and Economics, Environment and Planning C: Government and Policy). This diversity indicates that organic food research is not confined to a singular disciplinary perspective but intersects with environmental sustainability, policy analysis, food systems, and even societal and gender issues (Gender and Development, Social Responsibility Journal).

Furthermore, the presence of specialized journals like Sustainability (Switzerland) and Sustainable Production and Consumption reflects the growing academic emphasis on linking organic food systems with global sustainability goals. The inclusion of multidisciplinary sources, such as Long Range Planning, Technology Analysis, and Strategic Management, indicates that research in this field is increasingly addressing the strategic, technological, and economic aspects of organic food systems.

Overall, the publication sources highlight the dynamic and interdisciplinary growth of research on organic food. The engagement of both specialized and broad-scope journals underscores the importance of this field in addressing pressing global challenges, particularly those related to sustainable development, food security, and environmental stewardship. This distribution of sources also suggests increasing recognition of organic food as a critical area of inquiry across diverse academic domains.

Table 5. Most Cited Documents

Document	Citation
KIM H, (2009). ENVIRON SCI TECHNOL	220
BONSU NO, 2020, J CLEAN PROD	189
VON GEIBLER J, 2013, J CLEAN PROD	130
KONING NBJ, 2008, NJAS WAGENINGEN J LIFE SCI	107
FRIEDMANN H, 2008, J AGRAR CHANGE	103
GOWOREK H, (2011). SOC RESPONSIBLE J	84
LEVIDOW L, (2008). GEOFORUM	83
CHENG A, (2017). BIOL REV	78
AHMAD R, (2008). RENEW AGRIC FOOD SYSTEM	63
QIAO Y, (2016). RENEW AGRIC FOOD SYSTEM	62

Source: Data processed

The citation analysis highlights the influential contributions within organic food research, showcasing key works that have significantly shaped the field. Kim (2009) in Environmental Science and Technology leads with 220 citations, indicating its foundational role in addressing critical issues such as environmental impacts and technological advancements in organic food systems. Similarly, Bonsu (2020) and Von Geibler (2013), both in the Journal of Cleaner Production (189 and 130 citations, respectively), emphasize the importance of sustainable practices and cleaner production in the context of organic food. Studies by Koning (2008) in NJAS Wageningen Journal of Life Sciences (107 citations) and Friedmann (2008) in the Journal of Agrarian Change

(103 citations) further explore the intersection of organic food with sustainable agriculture and agrarian systems, demonstrating their critical contributions to the field.

Additional impactful works, such as Goworek (2011) in the Social Responsibility Journal (84 citations) and Levidow (2008) in Geoforum (83 citations), expand the focus of organic food research to include social, ethical, and policy dimensions. Cheng (2017), in Biological Reviews (78 citations), highlights the ecological and biological underpinnings of organic systems, while Ahmad (2008) and Qiao (2016), in Renewable Agriculture and Food Systems (63 and 62 citations), emphasize the importance of renewable and sustainable agricultural practices. Collectively, these highly cited works illustrate the interdisciplinary nature of organic food research, addressing diverse aspects such as sustainability, governance, societal implications, and ecological innovation, which continue to influence and guide the field's progression.

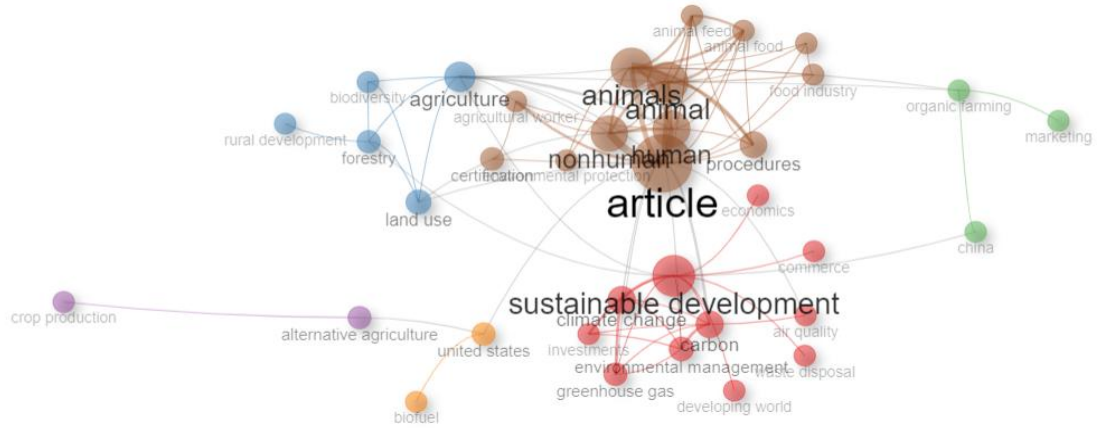

Figure 4. Keyword Co-occurrence Network

The visualization above illustrates a keyword co-occurrence network, mapping the interconnected themes and topics within the domain of organic food research. The size of the nodes reflects the frequency of specific keywords, while the proximity and connections between nodes indicate their co-occurrence across the dataset. The term "article" dominates the network, likely representing a metadata artifact. Nevertheless, substantive themes such as "sustainable development," "animals," and "climate change" emerge as core research areas, underscoring the interdisciplinary nature of organic food studies.

Clusters reveal distinct thematic focuses: the brown cluster centers on animal-related topics, such as "animals," "nonhuman," and "animal feed," reflecting studies on livestock and organic animal products. The red cluster focuses on "sustainable development," "climate change," and "greenhouse gas," highlighting sustainability and environmental impacts. Meanwhile, the green cluster connects "organic farming" and "marketing," emphasizing the economic and commercial dimensions of organic food. Smaller peripheral clusters, such as those focused on "crop production" and "alternative agriculture," highlight niche yet relevant research areas. This network effectively captures

the diversity and complexity of organic food research, showcasing its integration of environmental, economic, and agricultural perspectives.

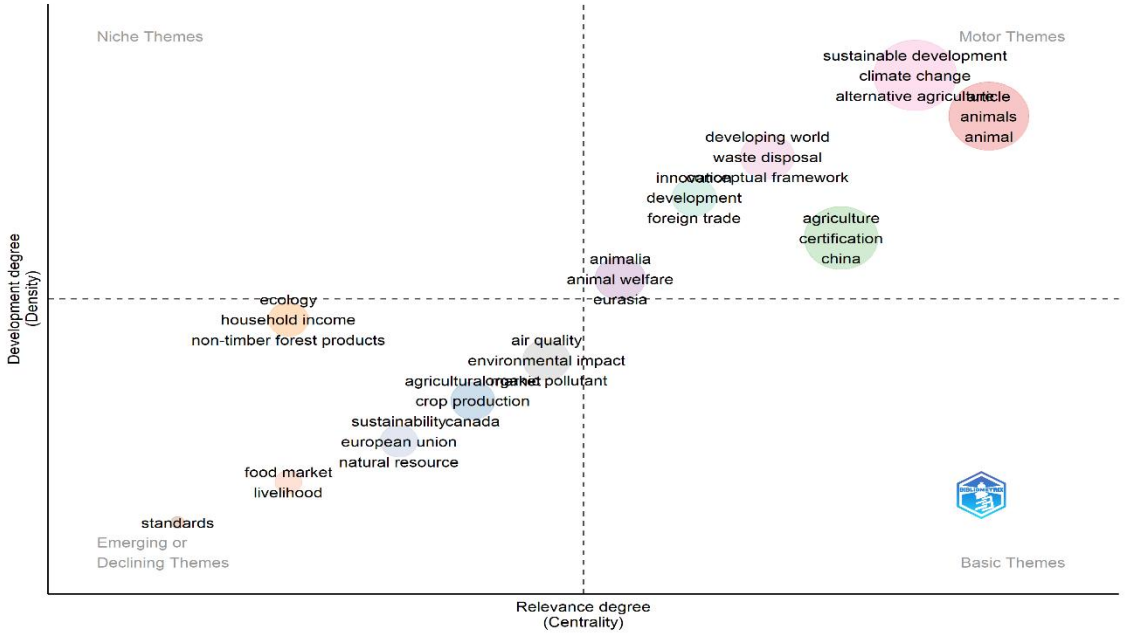

Figure 5. Thematic Map

The thematic map above categorizes research themes related to organic food based on their centrality (relevance to the overall field) and density (developmental sophistication of the theme). Motor themes, located in the upper-right quadrant, represent well-developed and highly influential topics. Prominent examples include "sustainable development," "climate change," and "alternative agriculture," reflecting a strong emphasis on the intersection of environmental sustainability and organic food systems. These themes drive the research domain, highlighting their pivotal role in addressing global challenges, such as climate change while advancing agricultural practices.

Conversely, the lower-left quadrant highlights emerging or declining themes characterized by low centrality and density, such as "livelihood," "food market," and "standards." These topics may indicate either nascent areas requiring further exploration or declining focus due to evolving research priorities. In contrast, the basic themes in the lower-right quadrant, like "agriculture" and "certification," signify foundational topics crucial for the field but less specialized. The absence of themes in the niche quadrant (upper left) underscores a current focus on either foundational or widely applicable research, suggesting potential opportunities for future specialization within the field of organic food studies.

Conclusion

This study was conducted to address the increasing importance of organic food in global markets, driven by growing consumer interest in health, environmental sustainability, and ethical production practices. As organic food research spans multiple disciplines, there is a need for systematic methodologies to map the evolution of this field and identify key research trends and gaps. The integration of bibliometric methodologies with the PRISMA model ensures a robust, data-driven approach that avoids biases and provides comprehensive insights into the field. The PRISMA model was utilized to refine search parameters and ensure methodological rigor, enabling a focused examination of articles directly related to organic food research and its various dimensions. The bibliometric analysis identified significant themes, including sustainability, health benefits, certification standards, and global market dynamics, highlighting the interdisciplinary nature of this research area. Thematic mapping revealed "sustainable development" and "certification standards" as central areas of scholarly discourse, while niche themes, such as "non-timber forest products," point to emerging research directions. This study demonstrates the value of bibliometric analysis in understanding research trends, mapping thematic clusters, and revealing the interconnectedness of various subfields within the field of organic food studies. The findings contribute to a deeper understanding of organic food research, providing valuable insights for academics, policymakers, and industry stakeholders. Future research can build upon these results to address critical challenges and expand knowledge in this growing area of study.

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