

Promoting Sustainable Fashion Through Ergonomics: A Bibliometric Study On Textiles And Garments

Aakanksha¹ and Dr. Kapoor Vibha²

¹Ph.D. scholar , Department of Design, Bansthali Vidhyapith,
Jaipur Rajasthan, India
Assistant Professor ,Department of Art & Design ,Sharda
University, Greater Noida, UP. India
aakanksha489@gmail.com

² Former Assistant Professor, Department of Design, Bansthali
Vidhyapith, Rajasthan, India
vibha.bid@banasthali.in

Abstract

Promoting sustainable fashion via the incorporation of ergonomic concepts in the realm of textiles and clothing has received a lot of attention in recent years. By analysing relevant articles, this bibliometric research seeks to offer an overview of the scientific environment around this issue. This research identifies and evaluates major sources that contribute to the knowledge and promotion of sustainable fashion practises via ergonomics using bibliometric analysis methodologies. The research uncovers a number of notable publications that address different areas of sustainable fashion, including as design considerations, manufacturing procedures, supply chain optimisation, and user comfort. The results provide important insights into the present state of research and show the importance of ergonomics in promoting sustainability in the fashion industry. This study will aid researchers, students, and industry professionals by providing a complete overview of the most significant sources and developing trends in promoting sustainable fashion via ergonomics in the textiles and garments area.

Keywords: Sustainable fashion, Ergonomics, Textiles, Garments, Fashion design, Biblioshiny.

Introduction

In recent years, the fashion industry has been subjected to substantial changes as a result of the rising concerns over the environmental viability of products and the need for more responsible consumption habits. Sustainable fashion, which seeks to minimise the negative environmental and social implications connected with the manufacturing and consumption of textiles and clothing, is one of the primary areas of concentration in this regard and one of the important areas of focus in this regard. Within the field of sustainable fashion, ergonomics plays an important role in not only assuring the comfort and well-being of those who wear these items, but also in optimising the design, manufacture, and usage of these products from the perspective of the environment (Abbate, S., et al, 2023).

Ergonomics is the study of the interaction between people and their environment, with a particular focus on enhancing performance, user satisfaction, and safety. Ergonomics is also known as human factors engineering. Another name for ergonomics is "human factors engineering." When applied to textiles and clothes, ergonomics has the purpose of generating goods that are not only aesthetically appealing but that are also functionally efficient, comfortable, and supportive for the person who is wearing them. In addition to this, ergonomics plays a vital role in the reduction of waste, the improvement of manufacturing operations, and the extension of the usable life of fashion products (Awad, S, et al ,2023).

The convenience and satisfaction of persons is an essential component of ergonomics in environmentally responsible way. Garments that are part of a sustainable fashion movement should not only be kind to the environment but also be very pleasant to wear. The use of environmentally friendly materials and manufacturing methods that place a premium on breathability, flexibility, and suppleness may help contribute to enhanced comfort for the wearer. Additionally, ergonomic design concerns, such as correct size, fit, and flexibility of movement, are crucial for ensuring that sustainable fashion items are not only wearable and pleasurable for the users, but also sustainable for the products themselves. This is essential for ensuring that sustainable fashion products are environmentally friendly (Jiang, L., Li, Q., & Wu, X. (2023).

Ergonomics may help to the life and longer usage of sustainable fashion goods, which is important in terms of how little impact they have on the environment. It is possible to reduce the need for frequent replacements as well as excessive consumption if clothing is designed such that it is long-lasting, requires little maintenance, and can be adapted to suit a variety of events and seasons (Putra, B. I., et al 2023, April). This strategy is consistent with the tenets of a circular economy, according to which things should be developed to have longer lifespans and should be capable of being reused or recycled after they have reached the end of their useful lives.

A number of companies and organisations within the fashion industry have come to the conclusion that ergonomics are an essential component of sustainable fashion. They have used ergonomic practises in order to enhance the level of comfort, usefulness, and longevity of their goods (Teixeira, T. G. B., et al , 2023). For instance, several businesses place a strong emphasis on the utilisation of natural and organic fibres since these fibres are not only environmentally friendly but also cosy and breathable. Others concentrate on developing cutting-edge production methods that may cut down on waste while also enhancing the comfort and fit of clothing.

The purpose of this bibliometric study is to undertake an analysis of the existing body of literature on textiles and garments in order to get a better knowledge of the current state of research at the nexus of environmentally responsible fashion and ergonomics (Saxena, M., Saxena, T., & Seth, N. 2022). Using bibliometric methods such as citation analysis, co-citation analysis, and keyword analysis, this study will provide an overview of the significant authors, publications, and research trends pertaining to this subject area.

In the past few years, there has been a growing interest in the application of notions of ergonomics to promote sustainable fashion practises. This interest has been spurred on by a number of factors. The fashion industry is specifically responsible for the rise in interest in this topic. To the best of our knowledge, there has not been any extensive bibliometric study that has specifically focused on the confluence of ergonomics and sustainable fashion in the context of textiles and clothing. This is something that we

believe should be done. As a consequence of this, the objective of this inquiry is to fill in this research gap and provide an in-depth knowledge of the current state of research in this industry at this moment (D'Adamo, I., et al 2022).

This study is intended to shed light on the authors who have had the greatest influence, as well as major papers and emerging research topics in the area of ergonomics and ecologically responsible fashion (Zhu, L., Yan, Y., & Lv, J. 2023). It is predicted that this study will do so. The findings will not only offer a contribution to the existing body of information, but they will also provide academics, practitioners, and policymakers with helpful insights that can be utilised to promote ecologically responsible fashion practises and boost the overall well-being of fashion consumers. In addition, the findings will make a contribution to the body of knowledge that is now available.

This bibliometric study on textiles and clothing aims to promote environmentally responsible fashion via the incorporation of ergonomics as one of its primary research goals (de Oliveira Neto, et al, 2022). The following is an itemised list of particular goals: to determine the most important research publications and studies that are associated with environmentally friendly fashion and ergonomics in textiles and clothing. Conduct a trend and pattern analysis on the published information pertaining to the integration of environmentally responsible fashion and ergonomics. Investigate the function that ergonomics play in the process of making fabrics and clothing more environmentally friendly.

Literature Review

In recent years, there has been a significant increase in the amount of attention paid to the intersection between ecologically responsible practises in the fashion industry and ergonomics in the textiles and apparel industries. This is mostly attributable to the urgent need for environmentally friendly business practises in the fashion industry. The objective of this literature review is to offer an overview of major research findings, methods, and gaps in the field, with a special focus on the role that ergonomics plays in promoting sustainable fashion practises. Specifically, the function that ergonomics plays in

encouraging sustainable fashion practises will be emphasised.

Several studies have highlighted the significance of ergonomics in environmentally responsible fashion, especially with regard to the designing and manufacturing processes. The primary goal of the principles of ergonomics is to facilitate the design of goods that put the user's ease of use, satisfaction, and functionality first (Sinha, P., Sharma, M., & Agrawal, R. (2022). In the context of textiles and clothes, this corresponds to the process of developing clothing that offers a good fit, facilitates mobility, and improves the experience overall for the person who is wearing it. Ergonomic concerns, such as the choice of materials, the availability of several size choices, and the presence of elements that can be adjusted, play an important part in extending the lifetime of fashion goods and decreasing waste.

Martinez et al. (2019) conducted research that investigated the use of ergonomic concepts in sustainable fashion by way of a case study on the creation of adaptable clothes for people who have physical limitations. The research emphasised the significance of inclusive design and user-centered methods, highlighting the need of taking into account a variety of body shapes and the requirements of mobile lifestyles when producing environmentally friendly fashion solutions.

Ergonomics has an impact not only on the production and manufacturing processes in sustainable fashion, but also on the design side of the industry. (Karthikeyan and colleagues 2020) conducted research to investigate ergonomic treatments in the garment manufacturing industry with the goals of reducing physical strain and improving worker well-being. According to the findings of the research, ergonomically built workstations, equipment, and procedures are some of the factors that lead to a more secure and environmentally responsible place of employment.

In addition, ergonomics makes a contribution to environmentally responsible fashion by way of consumer behaviour and consumption habits. According to a number of studies, ergonomics plays an important part in increasing user happiness as well as comfort and fit, which in turn enhances the lifetime of clothing and minimises the

frequency with which it has to be replaced. The negative effects on the environment that are caused by excessive consumption may be mitigated by fashion manufacturers if they take the time to learn their customers' preferences and incorporate ergonomic principles into their product designs and sizes (Elhoushy, S., & Jang, S. (2023).

This bibliometric research intends to address these weaknesses and offer a complete review of the current body of literature on textiles and garments at the confluence of sustainable fashion and ergonomics. Specifically, the study will focus on the junction of sustainable fashion and ergonomics. This study will contribute to the advancement of knowledge and will guide both future research and practise in the area of promoting sustainable fashion via ergonomics. This will be accomplished through the analysis of citation patterns, research trends, and cooperation networks.

Research Methods

In this study, Biblioshiny, an R-studio bibliometrics software, was used to undertake a comprehensive bibliometric analysis. R, an open-source programming language and environment, is widely used for bibliometric analysis, and Biblioshiny provides an intuitive interface for undertaking such analyses (Aria & Cuccurullo, 2017). Based on the preliminary investigation conducted by Aria and Cuccurullo, this study followed the three-step procedure recommended for using Biblioshiny. The initial phase of the analysis consisted of data collection, which included data retrieval, data encoding and conversion, and data purification. From various academic databases, pertinent literature on the topic of promoting sustainable fashion through ergonomics in textiles and garments was retrieved. The retrieved data were then imported into Biblioshiny and converted to ensure analysis compatibility. Using data cleanse techniques, duplicates, errors, and irrelevant records were removed from the dataset to ensure the accuracy and dependability of the subsequent analysis. In the second stage, data analysis, descriptive and citation analyses were performed on the bibliometric dataset. Examining publication patterns, such as the distribution of publications over time, top contributing authors and institutions, and publication categories, was part of descriptive analysis. An analysis of citations was performed to identify highly cited

articles and influential authors, which provided insight into the intellectual structure and knowledge flow within the field of sustainable fashion and ergonomics. The final stage of the analysis was data visualisation, which entailed the construction of various visual representations to improve the comprehension and interpretation of the bibliometric data. To illustrate the primary research themes and their interrelationships, conceptual maps and keyword clusters were created. Co-occurrence networks illustrated the relationships between keywords and research subjects. Networks of historiography illustrated the evolution of research tendencies over time. In addition, a country-based affiliation network was created in order to visualise the global distribution of research and identify significant countries that contribute to the field. Before continuing with the next investigation, it was necessary to specify the search term, locate the initial document, refine the results, and collect preliminary data. This iterative process ensured the incorporation of pertinent literature and refined the analysis to encompass the specific objective of promoting sustainable fashion through ergonomics in textiles and apparel (Garza-Reyes, 2015).

Results

Main Information: The number of papers on promoting sustainable fashion via ergonomics in textiles and clothes increased 5.06 percent year from 1957 to 2023, a 66-year period. The information was compiled from 481 sources, including scientific publications and books. The literature's mean quality grade was 4.714, suggesting good quality and academic rigour. These works' citations enriched this field's study. The collection included 2024 references to sustainable fashion and ergonomics. The author's keyword occurred 2049 times, suggesting the study topic's importance and prominence in academic debate. Figure 1 shows the lively academic discussion and scholarly interest in sustainable fashion via textile and garment ergonomics. The growing quantity of papers, high quality rating, and frequency of relevant keywords demonstrate the importance of this study field to academics, practitioners, and policymakers.

Annual Scientific Production: The annual scientific output on the issue of the promotion of sustainable fashion via ergonomics has been the subject of a bibliometric analysis.

The study primarily focused on textiles and clothing as its primary research subjects. The purpose of this research is to examine and quantify the amount of academic work that has been produced in this area over a certain amount of time. The research investigates, by means of bibliometric analysis, a variety of facets of scientific output that are connected to the ergonomics-based promotion of environmentally responsible fashion (Phoong, S. Y., et al, 2022). This involves doing an analysis of the number of publications, authors, connections, and journals in the subject of textiles and garments, as well as citation trends. The study, which makes use of bibliometric techniques, offers a thorough picture of the research landscape by drawing attention to the most important contributors, trends, and knowledge gaps that exist within this particular topic shown in fig 2.

Bradford's Law: Bradford's Law of Scattering, established in 1948, provides insights into the dispersion pattern of articles within a certain topic area over time. According to this rule, the quantity of papers declines across all sources (Sau, K. et al., 2023). Bradford's findings indicated a small number of extremely productive journals, followed by a bigger group of comparably productive journals, and lastly, a considerably greater number of low-productivity journals. These primary sources are the most significant and often cited publications in the topic. In the context of promoting sustainable fashion via ergonomics, researchers have investigated numerous ways to subject analysis, such as lexical, semantic, and topic spreading (Thottoli M et al., 2022). However, there is no agreement among specialists on a consistent definition of "subject" or recommended analytic methodologies. This research focuses on the distribution of journals pertinent to the theme of promoting sustainable fashion via ergonomics in the realm of textiles and clothing. The goal is to assist students and researchers in selecting the most important publications in this field. Figure 3 depicts the distribution of journals related to the subject, providing significant information for anyone interested in doing research or keeping up to speed with the newest breakthroughs in sustainable fashion and ergonomics within the textiles and garments area.

Most Relevant Sources: The use of ergonomic concepts to the marketing of sustainable fashion in the textiles and apparel industry has garnered a significant amount of

academic attention. Ergonomic principles may be applied to the marketing of sustainable fashion (Lopez, R., & Fan, J. (2021). As a consequence of bibliometric study that was carried out on the topic of this problem, a number of extremely important sources that contribute to the understanding and progression of sustainable practises in the fashion sector have been uncovered show in table 1.

Conclusion

The purpose of this bibliometric research was to provide light on the scientific environment around this important issue. The study focused on promoting sustainable fashion via ergonomics in the realm of textiles and clothing. Based on the findings of the research, significant publications have been identified that contribute to a better knowledge of sustainable practises in the fashion industry and their progress. An examination of the relevant literature reveals that academics have acknowledged the necessity of using ergonomics concepts in the design and manufacture of sustainable fashion. The articles that were examined shed light on how crucial it is for manufacturers of eco-friendly clothes and textiles to take into account ergonomic considerations including the user's level of comfort, the product's ability to fit well, and its overall functioning. The listed sources have investigated a variety of facets of sustainable fashion via ergonomics, including as design methodologies, supply chain optimisation, and the incorporation of ergonomics and concepts of sustainability. These publications provide researchers, students, and industry professionals with a basis for future inquiry and implementation of sustainable practises in the fashion industry. They give useful insights into the current state of knowledge and offer valuable insights into the current state of knowledge. Students and researchers may traverse the huge body of literature more effectively by developing a grasp of the most significant journals and publications in this subject. This will ensure that they are aware of the most recent research and advancements in the area of promoting sustainable fashion via ergonomics. This bibliometric analysis demonstrates the relevance of incorporating ergonomics principles in the design, manufacturing, and supply chain management of textiles and clothing. In general, this research makes a contribution to the expanding body of knowledge on sustainable fashion and sheds light on how important it is to consider these

concepts. It is a significant resource for people who are looking to contribute to the progress of sustainable practises in the fashion industry, and it stimulates more study and cooperation in this crucial field. In addition, it is a resource for anyone who are interested in the fashion industry.

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Annexure

Table 1: Most Relevant Sources

Sources	Articles
TEXTILE OUTLOOK INTERNATIONAL	34
TEXTILES SOUTH EAST ASIA	31
COSTUME	27
TEXTILE ASIA	27
KNITTING INTERNATIONAL	22
FASHION BUSINESS INTERNATIONAL	21

ADVANCES IN INTELLIGENT SYSTEMS AND COMPUTING	20
WOOL RECORD	20
AUSTRALASIAN TEXTILES AND FASHION	17
SUSTAINABILITY (SWITZERLAND)	17
ADVANCED MATERIALS RESEARCH	14
CLOTHING AND TEXTILES RESEARCH JOURNAL	14
TEKSTIL	14
TEXTILE HISTORY	13
ATA JOURNAL	12
COLOURAGE	12
TEKSTILEC	11
FIBERARTS	10
TEXTILE MAGAZINE	10
TEXTILE NETWORK	10
TEXTILE RESEARCH JOURNAL	10
AATCC REVIEW	9
ACM INTERNATIONAL CONFERENCE PROCEEDING SERIES	9
AFRICAN TEXTILES	9
ASIAN TEXTILE JOURNAL	9
BEKLEIDUNG WEAR	9
JOURNAL OF CLEANER PRODUCTION	9
JOURNAL OF THE TEXTILE INSTITUTE	9
MAN-MADE TEXTILES IN INDIA	9
SURFACE DESIGN JOURNAL	9
TEXTILE MONTH	9
JOURNAL OF FASHION MARKETING AND MANAGEMENT	8
TEXTILE HORIZONS	8
TEXTILES EASTERN EUROPE	8
BOBBIN	7
INDUSTRIA TEXTILA	7
MELLIAND TEXTILBERICHTE	7
PERFORMANCE APPAREL MARKETS	7
RESEARCH JOURNAL OF TEXTILE AND APPAREL	7
TECHNICAL TEXTILES INTERNATIONAL	7
TWIST	7
AUTOMATION IN GARMENT MANUFACTURING	6
CANADIAN APPAREL	6
EMBROIDERY	6
INDUSTRIE TEXTILE	6
INTERNATIONAL DYER	6
JOURNAL OF PHYSICS: CONFERENCE SERIES	6
PAKISTAN TEXTILE JOURNAL	6

PROCEEDINGS - INTERNATIONAL SYMPOSIUM ON WEARABLE COMPUTERS, ISWC	6
TAIWAN TEXTILE RESEARCH JOURNAL	6
TEXTILE VIEW MAGAZINE	6
EUROSTITCH MAGAZINE	4
FASHION AND TEXTILES	4
INTERNATIONAL FIBER JOURNAL	4
INTERNATIONAL JOURNAL OF FASHION STUDIES	4
KETTENWIRK-PRAXIS	4
MELLIAND INTERNATIONAL	4
SELVEDGE	4
STITCHES MAGAZINE	4
SUSTAINABLE TECHNOLOGIES FOR FASHION AND TEXTILES	4
TEXTILE TRENDS	4
TEXTILE WORLD	4
TEXTILES MAGAZINE	4
TINCTORIA	4
XIBEI FANGZHI GONGXUEYUAN XUEBAO	4
AMERICA'S TEXTILES INTERNATIONAL	3
AMERICAN DYESTUFF REPORTER	3
AMERICAN SPORTSWEAR AND KNITTING TIMES	3
APPLIED MECHANICS AND MATERIALS	3
BEKLEIDUNG/WEAR	3
CHEMICAL MANAGEMENT IN TEXTILES AND FASHION	3
CRAFT RESEARCH	3
CRAFTS	3
DRAPERS	3
DRESS	3
FASHION FORWARD	3
FASHION: TYRANNY AND REVELATION	3
FILIERE MAILLE	3
JOURNAL OF SILK	3
MASCHEN-INDUSTRIE	3
NONWOVENS INDUSTRY	3
SMART CLOTHES AND WEARABLE TECHNOLOGY	3
SPORTSWEAR INTERNATIONAL	3
SUSTAINABILITY: SCIENCE, PRACTICE, AND POLICY	3
TEXTIL-REVUE	3
TEXTILE AND LEATHER REVIEW	3
TEXTILE CHEMIST AND COLORIST	3
TEXTILE PROGRESS	3
TEXTILES PANAMERICANOS	3
TEXTILKUNST INTERNATIONAL	3

WSA	3
AATCC JOURNAL OF RESEARCH	2
ACS NANO	2
ADVANCED KNITTING TECHNOLOGY	2
ALPACAS AUSTRALIA	2
APPAREL INDUSTRY	2
APPAREL INTERNATIONAL	2
AUTEX RESEARCH JOURNAL	2
AVR ALLGEMEINER VLIESTOFF-REPORT	2
CAD COMPUTER AIDED DESIGN	2
CEUR WORKSHOP PROCEEDINGS	2
CHINA TEXTILE AND APPAREL	2
CIRCULAR ECONOMY IN TEXTILES AND APPAREL: PROCESSING, MANUFACTURING, AND DESIGN	2
CLEANER LOGISTICS AND SUPPLY CHAIN	2
COMPUTERS IN INDUSTRY	2
CONTEXT MAGAZINE	2
DENIM: MANUFACTURE, FINISHING AND APPLICATIONS	2
DIGITAL CREATIVITY	2
E3S WEB OF CONFERENCES	2
FASHION AND ITS MULTI-CULTURAL FACETS	2
FASHION, STYLE AND POPULAR CULTURE	2



Figure 1: Main information

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