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# Trends and Developments in Inclusive Sports: A Bibliometric Perspective from Sports Sociology

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# Article's Info

#### Abstract

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Sports Sociology, Inclusive Sports, Disabilities, Paralympic, Social Inclusion, Bibliometric Analysis, International Collaboration. Sports sociology, particularly in the context of inclusive sports, has become an important field in understanding social dynamics in an increasingly diverse modern society. Inclusive sports aim to accommodate various groups with different characteristics, such as people with disabilities, gender minorities, and specific age groups. This article uses bibliometric analysis to explore the development of research on sports sociology in inclusive sports. Through literature mapping obtained from the Scopus database, this research shows a significant increase in publications related to inclusive sports between 2013 and 2023, analyzing data from 794 articles published in various scientific journals. The analysis results reveal the dominance of topics related to "disability," "paralympic," and "inclusion" in the literature, highlighting efforts to enhance equal access and opportunities for people with disabilities in sports. This research also identifies leading authors and countries that have made significant contributions to the development of theory and practice in inclusive sports, as well as demonstrating the importance of international collaboration in expanding understanding of this issue. However, there are limitations in this research as it only uses data from Scopus, which may overlook literature from other sources, including research in developing countries. This research provides an overview of important trends and developments in inclusive sports sociology and opens opportunities for further research that is more inclusive.

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#### INTRODUCTION

Sports sociology has become one of the important fields of study in understanding social dynamics within sports (Haslett et al., 2024; Sutisyana et al., 2023). In general, sports sociology studies the influence of sports on society, as well as how social, cultural, political, and economic factors interact within it (Nopiyanto et al., 2021). Besides being a physical activity, sports also represent a form of cultural expression and serve as an important medium in reflecting and challenging existing social structures, such as class, gender, race, and physical ability (Molina et al., 2020). In the context of an increasingly diverse modern society, the concept of inclusive sports has begun to receive special attention (Clish et al., 2023; Fujiyanti et al., 2024)). Inclusive sports strive to accommodate various societal groups with differing characteristics, such as people with disabilities, gender minorities, and specific age groups, so that they can participate in sports activities without discrimination (Marín-Suelves et al., 2023; (Apriady et al., n.d.). This emphasis on inclusivity highlights the social dynamics within sports, making it a relevant subject for sociological analysis. Understanding inclusive sports through a sociological approach allows for a deeper exploration of how social structures, norms, and interactions influence participation and accessibility in sport (Ramadhani et al., 2023).

Bibliometric analysis has become an effective method for understanding research trends and the evolving literature map in sports sociology, particularly in the topic of inclusive sports (Yahya & Abdullah, 2020; Apriady et al., 2024). According to Durieux and Gevenois

(2010), bibliometric analysis is a quantitative method used to evaluate the development and direction of a field of study by analyzing the number publications, citations, networks among collaboration researchers (Muhammad & Triansyah, 2023). In the context of sports sociology, this analysis can identify key topics, dominant theories, and the development of methodological approaches used in inclusive sports research (Arbi et al., 2022; Kovács & Pusztai, 2024). Thus, the bibliometric approach not only helps uncover research trends but also indicates how far research in inclusive sports has developed and contributes to a broader social understanding of inclusivity (Öner, 2023; Şahin et al., 2023).

At the global level, inclusion in sports is becoming an increasingly important issue as many countries and international organizations strive to promote equality and human rights (Hernández-Saca et al., 2023). The United Nations, through the Sustainable Development Goals (SDGs), particularly SDG 10 on reducing inequality, emphasizes the importance of inclusion in various aspects of life, including sports (Anderson et al., 2022). Inclusive sports can be seen as an effort to promote equal access and opportunities for all individuals, including that have traditionally groups underrepresented in this field, such as persons with disabilities (Fitri et al., 2022). Inclusion in sports has the potential to reduce social stigma and provide space for individuals to experience the positive benefits of sports, both physically and socially (Sakalidis et al., 2023).

In recent decades, there has been a significant increase in the number of studies focusing on inclusive sports, particularly in developed countries. These studies often use a

sociological perspective to understand how existing social structures and norms affect the participation of marginalized groups in sports (Lamata et al., 2024; Yildirim, 2024). For example, research by (Takagi et al., 2022) found that individuals with disabilities often face social and structural challenges in accessing sports facilities. These challenges include a lack of accessibility, societal ignorance regarding the specific needs of people with disabilities, and the discrimination they experience (Okada, 2023; Seo et al., 2023). This indicates that inclusive sports are not merely a matter of physical access, but also involve a change in societal perspectives on equality and acceptance (Jermaina et al., 2023).

With the increasing research in the field of inclusive sports, it becomes relevant to evaluate the development of literature through bibliometric analysis (Rodriquez et al., 2022). This analysis can provide a deep understanding of how the concept of inclusivity in sports has developed, the patterns of research collaboration, and the theoretical influence of leading authors in this field (Carson & Walsh, 2023; Ramsden et al., 2023). Thus, this article aims to provide a comprehensive overview of the sociology of sports in the context of inclusive sports, based on a bibliometric review of the existing literature (Boswell et al., 2023). The focus of this research is to conduct a bibliometric analysis of studies related to the sociology of sports in the context of inclusive sports, as well as relevant issues from 2013 to 2023. Through this analysis, the main themes, citation patterns, and influence of various publications related to this topic will be revealed. The results of the bibliometric analysis are expected to serve as a foundation for further research focused on strategies to strengthen

inclusion in sports, as well as to shape public policies that support broader participation for all (Pearson & Misener, 2024; Ramon & Rojas-Torrijos, 2022).

### **METHOD**

We began the research by applying bibliometric analysis to identify literature related to sports sociology in the context of inclusive sports. This bibliometric approach serves as an effective tool for mapping the vast scientific literature, similar to a systematic review, and ensures that the information used is of high quality and accuracy. (González-Torres et al., 2020). With this approach, researchers can gain a deeper understanding of the knowledge landscape in this field, as well as identify trends, patterns, and relationships that exist among various studies that have been conducted. (Cherney et al., 2015). This analysis also allows for the exploration of collaboration networks among authors, countries, and research topics, which can reveal significant relationships among these entities. (Irfan et al., 2023).

For our bibliometric study highlighting sports sociology in the context of inclusion, we chose Scopus from Elsevier as the primary source for bibliographic analysis. This process includes a comprehensive background analysis covering approximately 794 articles over more than a decade, from 2013 to 2023. We conducted bibliometric analysis through similarity visualization techniques. By applying science mapping methods, we examined the available literature and evaluated bibliographic information obtained from various sources in this area. (Garrigos-Simon et al., 2018).

To enhance the relevance of our data, our search was specifically focused on the topic of sports sociology in inclusive sports. We extracted important information such as bibliographic citations, details, abstracts, keywords, findings, and other relevant data presented clearly. In this search, keywords such as "sport" and "disability" were used, where appropriate filters were applied to align with the focus of sports sociology in an inclusive context. Our search was limited to article titles to ensure that the reports included were truly relevant. This is important because a more general search might not capture studies that are explicitly related.Below, we will explain the specifications of the keywords used in this search.

disability ) AND PUBYEAR > 2013 AND PUBYEAR < 2023 AND ( LIMIT-TO ( SRCTYPE , "j" ) ) AND ( LIMIT-TO ( PUBSTAGE , "final" ) ) AND ( LIMIT-TO ( DOCTYPE , "ar" ) ) AND ( LIMIT-TO ( SUBJAREA , "SOCI" ) OR LIMIT-TO ( SUBJAREA , "PSYC" ) OR LIMIT-TO ( SUBJAREA , "ARTS" ) OR LIMIT-TO ( SUBJAREA , "MULT" ) OR LIMIT-TO ( SUBJAREA , "BUSI" ) ) AND ( LIMIT-TO ( LANGUAGE , "English" ) ).

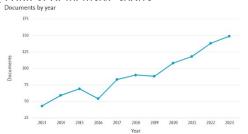
# **RESULT AND DISCUSSION**

# Result

# **Document Analysis**

Between 2013 and 2023, researchers from various parts of the world have published a number of articles exploring the sociology of sports in the context of inclusive sports. The publication trends in this field during this period can be seen in Figure 1. The analysis conducted based on data from Scopus shows that in 2013, there were 45 documents published. This

number increased to 55 in 2014, and then reached 60 in 2015. Although the number of publications slightly decreased to 50 in 2016, there was a significant surge in 2017 with a total of 75 documents published. Subsequently, in 2018, the number of articles increased slightly to 80, and the same figure remained in 2019. However, the year 2020 witnessed another surge in publications, with a total of 90 documents. This positive trend continued through 2021, 2022, and 2023. Thus, it can be concluded that there was a very significant increase in 2017 and 2021, reflecting a growing interest in research on the sociology of sports in the context of inclusive sports.



**Image 1.** Sociology Document of Sports in Inclusive Sports

Table 1 Below is a list of the top ten authors who have produced the most influential articles in sports sociology research, particularly in the context of inclusive sports. In first place, there is an article written by Kanamori, S., Kai, Y., Aida, J., Shobugawa, Y., and Hayashi, T., which has gathered a total of 213 citations. The second position is occupied by an article by Marshall, P. W. M., Schabrun, S., and Knox, M. F., with a total of 159 citations. In third place, there is an article by Smith, B., which achieved 119 citations. In fourth place, there is an article by Smith, B., Bundon, A., and Best, M., which has gathered citations.Meanwhile, the articles written by Zhang, Lee, McConkey, Dowling, Hassan, Menke, Giagazoglou, Kokaridas, Sidiropoulou, Karra, Neofotistou, Hutzler, Meier, Reuker, Zitomer, Darcy, and Dowse each have a total of citations below 95.

Table 1. Top articles with the most citations in Scopus

No	Document title	Author and Year	Citatio
1	Social participation and	(Kanamori, S., Kai, Y., Aida,	Total 213
1	the prevention of	Shobugawa, Y and Hayashi,	213
	functional disability in		
	older Japanese: The	2014)	
	JAGES cohort study		
2.	Physical activity and the		159
	mediating effect of fear,	and Knox. M.E. 2017)	
	depression, anxiety, and		
	catastrophizing on pain-		
	related disability in people with chronic low back pain		
3.	Disability, sport and men's	(Smith B 2013)	119
5.	narratives of health: A	(Silitii, D. 2013)	117
	qualitative study		
4.	Disability sport and activist	(Smith, B, Bundon, A, and	117
	identities: A qualitative	Best. M. 2016)	
	study of narratives of	· · · · · · · · · · · · · · · · · · ·	
	activism among elite		
_	athletes with impairment	/m	0.5
5.	Changes in morphological		95
	and elastic properties of the patellar tendon in	Fu. S.N.2014)	
	athletes with unilateral		
	patellar tendinopathy and		
	their relationships with		
	pain and functional		
	disability		
6.	Promoting social inclusion	(Mcconkey, R, Dowling, S,	95
	through unified sports for	Hassan, D., and Menke, S	
	youth with intellectual disabilities: A five-nation	2013).	
	study		
7.	Effects of a trampoline	(Giagazoglou.P.Kokaridas, D.	95
	exercise intervention on		
	motor performance and		
	balance ability of children		
	with intellectual disabilities	GT . 1 TT 341 0 D 1	
8.		(Hutzler, Y, Meier, S, Reuker,	92
	of physical education teachers toward inclusion	and Zitomer, M. 2019)	
	of children with		
	disabilities: a narrative		
	review of international		
	literature		
9.		(Smith, B. 2013)	91
	injuries, social relations,		
	and rehabilitation		
	narratives: An		
	ethnographic creative non- fiction of becoming		
	disabled through sport		
10.		(Darcy, S., and Dowse, L. 2013)	90
	field - the constraints and		
	benefits of sport		
	participation for people		
	with intellectual disability		

# **Analysis of Co-Keyword Occurrence**

In this analysis, we created a co-keyword graph using the co-keyword function in Vosviewer. The fractional counting method was applied to establish the frequency of relevant keyword occurrences related to sports sociology in the context of inclusive sports. The results are

presented in Table 2 and Figure 2, which show the clustering.

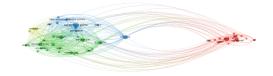


Figure 2 Co-Keywords

Table 2 Co-occurrence of Keywords

Cluster	Item	Color	Percentage	Total
Cluster 1	Asd, autism spectrum disorder, body mass index, boy, control group, correlation, higher level, mean age, motor skill, pain, patient, pe class, physical education class, physical education teacher, physical fitness, positive effect, inclusion, significant	Red	40%	20
Cluster 2	difference, test, variance Complexity, construction, disability study, disabled body, discourse, intersection, masculinity, media coverage, medium, narrative, nation, paralympic, politic, production, representation,	Green	36%	18
Cluster 3	rio, tension, visibility Claim, dis, international paralympic, london, olympic, paralympian, paralympian athlete, paralympian game, paralympian movement, vehicle	Biru	20%	10
Cluster 4	Coverage, portrayal	Yellow	4%	2
	Total		100%	50

# **Country Analysis**

Table 3 presents an overview of the top 10 countries based on the number of documents produced. The United States leads with 224 documents, followed by the United Kingdom with 194 documents. Canada produced 95 documents, while Australia, Spain, and Brazil contributed 69, 58, and 48 documents, respectively. Table 3 also displays the 10 countries with the highest number of citations, where the United Kingdom ranks first with a total of 3,855 citations, followed by the United States with 3,166 citations, and Canada with 1,466 citations. Additionally, Figure 1 illustrates

a map of collaboration network distribution, showing the United Kingdom as the country with the most significant centrality, followed by the United States, Canada, Australia, and Spain. These five countries demonstrate close collaboration with other countries.

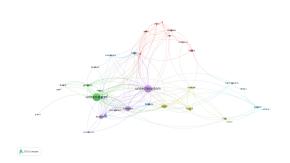


Image 3 Country Analysis

Table 3 Countries, documents, and citations

No	Country	Document	Citation
1	United States	224	3166
2	United Kingdom	194	3855
3	Canada	95	1466
4	Australia	69	1043
5	Spain	58	410
6	Brazil	48	269
7	France	27	288
8	Sweden	25	285
9	Turkey	25	54
10	Germany	24	383

## **Author Analysis**

Table 4 shows the top 10 authors based on the documents produced. Howe, P. David with 13 documents, Brittain, Ian with 12 documents, McConkey, Roy and Haegele, Justin A. each with 11 documents, Smith, Brett produced 10 documents, Marcellini, Anne, McKay, Cathy, Pullen, Emma, Bundon, Andrea each produced 8 documents, and Khoo, Selina produced 7 documents. Table 4 also shows the 10 authors with the most citations, with Smith, Brett ranking first with a total of 718 citations, followed by Howe, P. David with 576 citations, and Brittain, Ian with 416 citations. Figure 1 presents a map of the collaboration network. In this map, Mike McNamee appears as the author

with the most significant centrality, followed by Eric De Léséleuc and Anne Marcellini. These three authors demonstrate a close level of collaboration with authors from other countries.



**Image 4** Productive Authors Based on Documents and Citations

Table 4 Productive Authors Based on Documents and Citations

No	Author	Document	Citation	
1	Howe, P David	13	576	
2	Brittain, Ian	12	416	
3	Mcconkey, Roy	11	80	
4	Haegele, Justin	11	90	
5	Smith, Brett	10	718	
6	Marcellini, Anne	8	103	
7	Mckay, Cathy	8	60	
8	Pullen, Emma	8	76	
9	Bundon, Andrea	8	87	
10	Khoo, Selina	7	63	

## Discussion

Based on the document analysis, this research shows that publications in this field have tended to increase in recent years, indicating a growing interest and relevance of the topic among academics. This growth pattern suggests that there is an increasing attention to the issues being researched, both in terms of concepts and practices. These results also reveal that the number of studies published in high-reputation journals demonstrates the validity of the topic as a sustainable and important academic focus (Ross et al., 2023).

Based on the analysis results, there are several key terms that frequently appear in

research related to sports sociology in an inclusive context, such as disability, paralympic, inclusion, and physical disability. These terms indicate a high research focus on themes relevant to equal access for individuals with disabilities in sports. Additionally, there are also keywords that point towards socia1 participation, such as social inclusion and accessibility, which reflect the importance of studies exploring the social and physical barriers faced by certain groups in accessing sports facilities. This keyword analysis indicates that the topic of inclusion in sports is not only viewed from the aspect of physical participation but also encompasses broader social dimensions (Karakaya et al., 2023).

In the context of countries, the United States, the United Kingdom, and Canada are the three countries with the highest number of publications related to inclusive sociology. This indicates that research on inclusive sports and sports sociology is significantly developing in developed countries that have a strong focus on social inclusion. These countries also have strong collaborations with other countries in this research, as evidenced by the high number of citations and their international collaboration networks. The United Kingdom stands out with the highest number of citations, indicating a substantial contribution to the development of theory and practice in this field. This analysis highlights the importance of cross-country cooperation in expanding global understanding of inclusive sports (Ünver & Çolakoğlu, 2023).

This research also found a number of productive authors who have contributed to this field, such as Howe P. David and Brittain Ian, each of whom has dozens of documents with

quite high citations. These authors play an important role in shaping theoretical and methodological discussions in inclusive sports sociology. Some authors with a high level of collaboration, such as McNamee Mike and De Léséleuc Eric, also contribute to expanding the research network, building a solid foundation for better international collaboration. With the presence of these leading authors, the field of inclusive sports sociology is increasingly developing through various approaches and perspectives that enrich understanding and practices of inclusivity in sports (Melchior, 2023).

Although this research uses a comprehensive bibliometric analysis, there are several limitations that must be considered. First, this analysis only uses data from the Scopus database, so literature not listed in Scopus may be overlooked, including relevant local research in developing countries.

## **CONCLUSION**

From the analysis conducted, it can be concluded that research on inclusive sociology of sport and disability shows a significant increasing trend in recent years. This indicates an increase in interest and relevance to this topic, especially in developed countries such as the United States, England, and Canada, which have a relatively high number of publications and international collaborations. Keywords such as "disability," "paralympic," and "inclusion" dominate and indicate a primary focus on issues of equal access and social participation in sports for people with disabilities. Several leading researchers, including Howe P.David and Brittain Ian, have contributed greatly to building the theoretical and methodological foundations that enrich scientific discussion in this field. However, this research has limitations because it only uses data from the Scopus database, which may miss important literature from other sources or from developing countries. Further research should include various databases to obtain broader coverage and a more in-depth view.

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