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A Literature Review and Bibliometric-Analysis of the Game of Basketball: A Case Study on Indonesia and Malaysia

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Authors' contribution:
A. Conception and design of the study; B. Acquisition of data; C. Analysis and interpretation of data; D. Manuscript preparation; E. Obtaining funding

ABSTRACT
This study examines basketball-related trends and publications in Indonesia and Malaysia. The Scopus database yielded 85 papers for this investigation. The analysis is based on four fundamental factors: the distribution of publications, the distribution of scientific sources, the most prolific author, and keywords. Based on our analysis, it is forecasted that publication in this field will increase between 2020 – 2022. The frequent keywords were "basketball" and "sports" when referring to similar studies. These results show that "mental exhaustion" and "physical education" are keywords that will be used often in 2020. The paradigm's evaluation of current research trends has aided academics and researchers seeking to enhance basketball players' training and the sports industry.

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INTRODUCTION

It's safe to say that basketball is a made-in-America and team sport. The world over, including in Indonesia and Malaysia, basketball has become one of the most popular sports in recent years. Basketball is a game where the objective is to put as many balls into the opponent's basket while limiting the number of times the opponent can get the ball in your basket. (Sofyan et al., 2020). The fundamental movements of playing basketball include driving, rebounding, jumping shoots, laying-ups, closing out, blocking shots, playing at high speed, and fast attacks (Vázquez-Guerrero et al., 2019). These movements all require a lot of passing, defense, 3-and-2-point shots, dribbling, rebounding, and explosive and strong acceleration. Basketball training includes various elements and is tailored to the game (Sofyan & Budiman, 2022).

Basketball is a fiercely competitive team sport that calls for several distinct movement patterns in connection to the technical and tactical aspects of the game (Petway et al., 2020). It necessitates mastering numerous physical and motor abilities (such as speed, strength, and endurance). For a team to win the National Basketball Association (NBA) championship, it must be technically and strategically successful (Schelling & Torres-Ronda, 2016). Success on the court depends on one's ability to shift direction, hop, and shuffle, as most basketball actions and special moves are intermittent, high-intensity movements (Ramos-Campo et al., 2017; Svilar & Jukić, 2018). Basketball games are challenging, demonstrating how developing different physical traits can help match performance (Morrison et al., 2022).

Numerous studies have been conducted on the game of basketball-related topics, which include but are not limited to women's basketball (Carter et al., 2005; Jiang & Lee, 2016); basketball-related game efficiency indicators (Sporiš et al., 2006); competitive balance (Meletakos et al., 2016; Scott et al., 2019); fatigue (Li et al., 2021; Rashid et al., 2020); post-workout recovery (Calleja-González et al., 2016); wheelchair basketball (Calleja-González et al., 2016; de Groot et al., 2012; de Witte et al., 2016; Vanlandewijck et al., 2004); technical skills (Klusemann et al., 2012); injuries (Conde et al., 2022); cultural innovation (Campbell, 2015); elite athletes (Bennett et al., 2017; Scanlan et al., 2011; Sotiriadou & Shilbury, 2009; Torres-Unda et al., 2013); college basketball (Blanco & Bairner, 2019; Fortunato, 2020).

This study aims to review basketball-related scientific publications using the Scopus database. By addressing deficiencies and generating new study paths, bibliometric review methodologies, from the authors' perspective, can significantly advance existing research on the game of basketball. The authors' used bibliometric analysis and visualization to offer a fair and current overview of basketball. This bibliometric review seeks to locate and assess the literature on basketball from various perspectives

METHODS

The current bibliometric analysis in this study was carried out in four steps: 1) Determining the databases and specific keywords; 2) Carrying out the initial data analysis to remove duplicates; 3) Conducting the bibliometric analysis per the study questions. As a result, bibliometric analysis has proven to be a reliable way to locate and analyze research in the literature and build a system for studying the literature to identify publication patterns and trends (Abdullah & Sofyan, 2022).

Determining the databases and certain keywords

In order to accomplish bibliometric analysis, this study used VOSviewer software. The inquiry was finished utilizing a document inspection approach in the Scopus database as part of a descriptive analysis. The bibliometric analysis began with identifying keywords that would lead to accurate information pertinent to the research questions (Abdullah, 2021). This is so that researchers, whether working in pure science or social science, can gather the most pertinent information for future analysis and tracking the development of the subject (Abdullah, 2022). On November 19, 2022, a search for the keywords "basketball," "indonesia," and "malaysia" was conducted to acquire Scopus. Both the minimum and maximum metadata standards that can be analyzed, as well as the number of metadata numbers for bibliometric analysis, are left unmentioned (Sofyan, 2022). To analyze bibliometrics, a minimum of 50 documents is required (Bornmann et al., 2014; Lehmann et al., 2008; Sjöstedt et al., 2015).

Initial data analysis to remove duplicates

85 Scopus metadata records were downloaded, stored, and manually searched for any duplicate documents by researchers using an excel spreadsheet. The researcher's actions in examining the potential of several papers are as follows: All titles in the title column should be selected, followed by the conditional formatting menu, highlight cell rules, and duplicate values submenu. A new document will appear once this procedure is finished. As you can see, the record is red, indicating several possible outcomes and even the possibility.

The researcher sorted and filtered the documents to put them in order so that it would be easier to analyze these numerous materials. One paper at a time should be examined to see if it contains duplicate information, starting with the author, title, year, source title, DOI, and document type. If there are just two same documents and the level of resemblance from the specified criteria is relatively high, you can delete that one file immediately. If there are more than two duplicate files, save the one that isn't removed. Links and DOI, which go to the document's scientific source, are also checked to see if there are any duplicates in the text. The titles and abstracts are listed on the web page.

It turns out that the initial data we acquired consisted of 85 documents, which we discovered via the CSV data export that we performed and carefully examined using an excel file. We did not find duplicate files after our investigation. Thus, the study of the document is possible. This phase is necessary since there aren't many currently monitored papers; if there were, there would probably be duplicate records.

Bibliometric analysis

The VOSviewer is used to map the bibliometric network. VOSviewer creates and displays graphical and bibliometric maps (Akinlolu et al., 2020). To visualize network maps using coincidence matrices and perform clustering based on co-authorship and co-occurrence, VOSviewer is a keyword processing and clustering analysis tool (van Eck & Waltman, 2010). In addition, maps of international scientific collaboration are frequently displayed using VOSviewer (Velasco-Muoz et al., 2018).

The VOSviewer software (version 1.6.11, 2019, Leiden University, Leiden, Netherlands) was used for visual analysis and network diagram mapping of co-authored authors, countries, and organizations. A co-occurrence and co-occurrence networks were shown. The whole computation approach is used for network maps, meaning each concurrent link's weight is the same. The occurrence matrix is normalized using the default "strength of association method" and the default values for attraction and repulsion (Yuan & Sun, 2020). According to Merigó et al. (2019), VOSviewer Software employs fractional counting (keywords per paper-the amount of keywords is unaffected by the number of authors).

By addressing the following research questions (RQs), the current bibliometric study aims to investigate the publishing development and trends of the Indonesian and Malaysian research domains in basketball. The following research questions were analyzed to achieve the stated goal(s): What characteristics of the Indonesian and Malaysian research domains in basketball's increase in publications based on year, documents, and subject areas [ϑ_1]?; What is the most well-known title of a source for basketball research publications [ϑ_2]?; Who is the most prominent author for basketball research publications [ϑ_3]?; What is the most popular keyword for publications on basketball [ϑ_4]?

RESULTS

Understanding the significance of bibliometric traits makes it easier to evaluate researchers and journals, lowers the possibility of abuse, and makes it possible for them to be used as unbiased indicators of academic productivity (Abd Aziz et al., 2022). The fundamental concepts of the findings and discussion concerning basketball are as follows:

ϑ_1:

Table 1 displays the 85 publications between 1997 to 2022 in the Scopus database (November 19, 2022). The year with the most publishing out of all of these is 2021, with 20 documents. Given that 15 papers from the two countries have been released, 2020 marks the beginning of a period of tremendous expansion. In contrast to other years, there were never more than ten documents. The 85 materials included 53 articles (62.35%), 23 conference papers (27.05%), eight peer-review articles (9.41%), and one editorial (1.17%).

Table 1. Publication tren, documents, and subject area

Year	Total	Document Type	Total	Subject Area	Total
2022	18	Article	53	Medicine	32
2021	20	Conference Paper	23	Social Sciences	23
2020	15	Review	8	Health Professions	20
2019	6	Editorial	1	Engineering	16
2018	8			Computer Science	15
2017	5			Biochemistry, Genetics and Molecular Biology	11
2016	2			Physics and Astronomy	11
2015	1			Mathematics	8
2014	3			Environmental Science	6
2013	1			Psychology	6
2010	1			Decision Sciences	5
2009	2			Energy	3
2006	1			Materials Science	3
1997	2			Agricultural and Biological Sciences	2

ϑ_2:

In this study, the source titles parameter refers to the journal-title. This investigation identified the top 11 source titles, as shown in Table 2. The leading publication was recognized as the Journal Of Physics Conference Series (10 documents), followed by the International Journal Of Human Movement And Sports Sciences (7 papers). The findings indicate that these sources have provided helpful material that will be utilized by future researchers in their work in this research domain. Moreover, this shows that the source titles facilitate users' access and help with structuring of the required data.

Table 2. Most title of source

Source title	Total document
Journal of Physics Conference Series	10
International Journal of Human Movement and Sports Sciences	7
International Journal of Environmental Research and Public Health	3
IOP Conference Series Materials Science and Engineering	3
Journal of Health and Translational Medicine	3
International Journal on Informatics Visualization	2
Journal of Engineering Science and Technology	2
Lecture Notes in Electrical Engineering	2
Plos ONE	2

Revista de Psicologia del Deporte	2
Sport Science	2

ϑ_3:

Figure 1 and Table 3 show the network visualization for the 284 authors. One flaw in bibliometric research is that the authors of this review acknowledge and express concern about the likelihood of author names being similar (Sofyan & Abdullah, 2022).

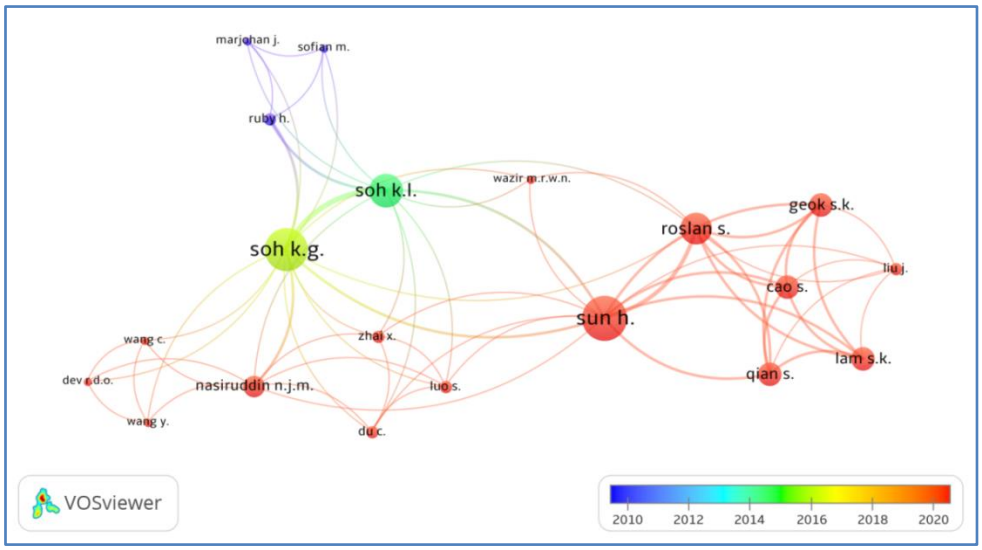

Figure 1. Overlay visualization auhtors

Table 3. Most title of author

Author	Documents	Citations	Total link strength
Soh K.G.	5	19	20
Soh K.L.	4	19	16
Sun H.	4	15	21
Afrouzeh M.	3	2	13
Kasim S.	3	12	11
Musa R.M.	3	2	13
Roslan S.	3	13	15
Suppiah P.K.	3	2	13

Table 4. Top cites

Cites	Authors	Title	Year
67	M.J. Awan, M.S.M. Rahim, N. Salim, M.A. Mohammed, B. Garcia-Zapirain, K.H. Abdulkareem	Efficient Detection of Knee Anterior Cruciate Ligament from Magnetic Resonance Imaging Using Deep Learning Approach	2021
61	G.R. Hamilton, C. Reinschmidt	Optimal trajectory for the basketball free throw	1997
42	D. Rowe, C. Gilmour	Sport, media, and consumption in Asia: A merchandised milieu	2010
24	S.S. Madan, D.R. Pai, A. Kaur, R. Dixit	Injury to ulnar collateral ligament of thumb.	2014
17	C. Nanthakumar	The benefits of yoga in children	2018
12	F.A.A. Fauzy, Z.A. Shah, R. Rd Saedudin, S. Kasim, A.A. Azadin, A.S. Ahmar, R. Hidayat	Registration system and UTM games decision using the website application	2018
10	F.A. Nanda, N. Novriansyah, M.D. Nugroho, S. Fajaruddin, M.B.R. Utama, E. Burhaein, D.T.P. Phytanza	Psychological Skills Of Basketball Athletes By Perspective Gender: Study Indonesian Athletes In Asian Games XVIII	2021

ϑ_4:

The primary goal of the keyword analysis in this study is to examine the author's previous studies' keyword usage. Therefore, this phase is crucial for locating the writers' keywords, which capture the essay's main points. Furthermore, the authors' keywords helped readers and potential scholars categorize essential ideas and themes in the publications, and it's crucial to conduct an additional study using these terms as a starting point to discover fresh ideas for basketball research.

After entering the thesaurus file, out of 251 keywords, 21 were the most popular in basketball research. Figure 1 explains that, based on the density visualization, the thicker the keywords are, the more orange they are, indicating that they are increasingly being used. For example, the keyword "basketball" was most used by authors in Indonesia and Malaysia from 1997 to 2022, with 19 occurrences. Table 3 also describes another 20 keywords, including their event and total link strength.

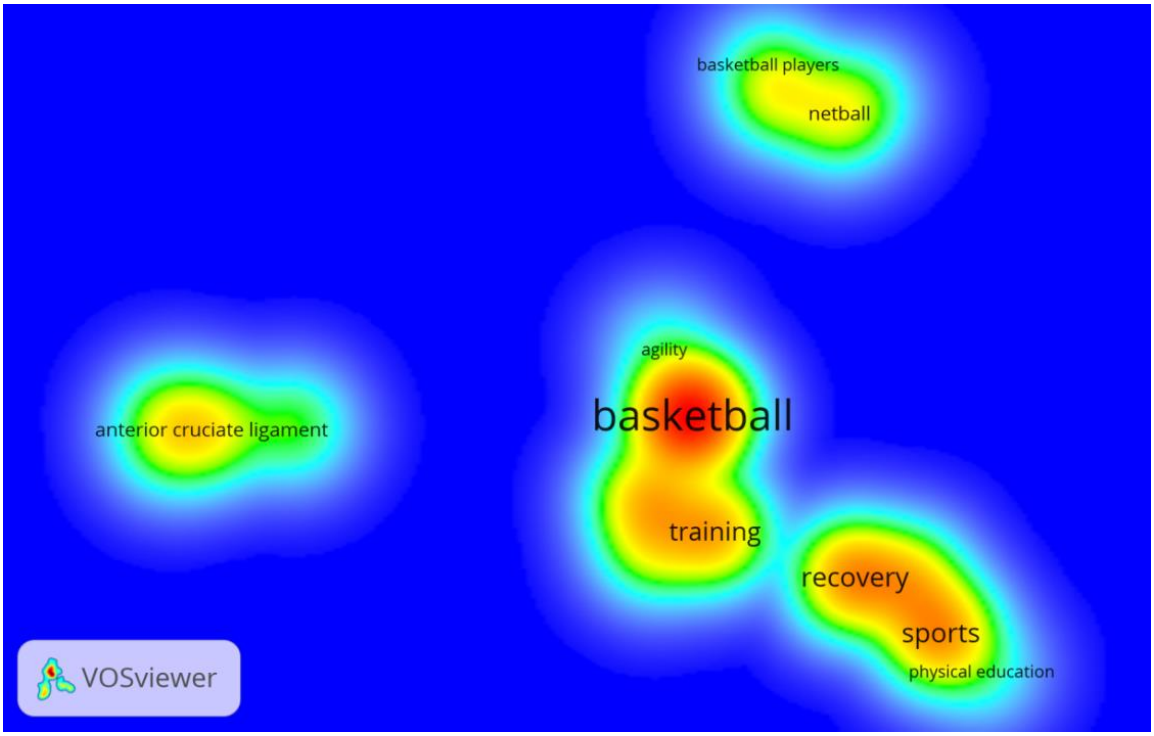

Figure 2. Density Visualization authors' keywords

Tabel 3. Most title of keyword

keyword	occurrences	total link strength	keyword	occurrences	total link strength
Basketball	19	16	Case report	2	0
Sports	7	7	Concentration	2	3
Agility	3	1	Convolutional neural network	2	2
Free throw	3	5	Gender	2	1
Recovery	3	7	Mental fatigue	2	5
Training	3	6	Modified equipment	2	4
Anterior cruciate ligament	2	3	Motor learning	2	4
Artificial intelligence	2	2	Netball	2	3
Assessment	2	2	Physical education	2	1
Basketball players	2	1	Playing position	2	3

DISCUSSION

Based on the popular keywords in 2022, we can analyze basketball publications in Indonesia and Malaysia more deeply. The keywords in question are "mental fatigue" and "physical education." From these two keywords, we can combine them into an interesting analytical linkage.

Mental fatigue will certainly approach every baseball athlete and become a problem for athletes when practicing or competing. A state of a prolonged, taxing cognitive effort known as mental fatigue (MF) has been linked to numerous elements of daily life. This disorder results in a strict sense of fatigue and a decline in cognitive function (Boksem and Tops, 2008; Marcora et al., 2009; Van Cutsem et al.,2017). Additionally, recent studies have shown that the mental fatigue state is a significant regulator of young basketball players' technical ability, lowering their performance in small-sided games and changing their neuroendocrine and autonomic responses (Moreira et al., 2018). For example, the total number of turnovers increases when the players are mentally fatigued (Filipas et al., 2021). However, these effects are believed to be limited to physical exhaustion, and the psychological component of basketball performance has received relatively little attention (Cao et al., 2021).

Physical training is "physical education." (Lee, 2021). This seeks to increase students' mobility, physical abilities, and awareness of safety, as well as their capacity to employ them in a wide range of activities related to promoting an active and healthy lifestyle. People are urged to routinely engage in physical activity of at least moderate intensity for better health and wellness (Zhang et al., 2021). In physical education, basketball significantly impacts energy conservation (Placek et al., 1995). It is believed that this research would be helpful to physical education instructors, coaches, and basketball players as a teaching resource.

CONCLUSION

The results of a bibliometric analysis of the basketball research literature in Indonesia and Malaysia are summarized in this study to give a quantitative picture of the prominent patterns in the field. However, it is crucial to consider the constraints of the analysis methods and record categorization. It would be best if you remembered that bibliometric reviews could be performed utilizing a variety of databases, including Google Scholar, Web of Science (WoS), PubMed, and ERIC.

The precise explanation provided in this paper about the future of basketball research will be very beneficial to academics and researchers. A considerable addition to the existing body of knowledge regarding the dispersion of basketball research is also helpful. This study describes the current state of basketball research and knowledge gaps that can motivate the development of fresh investigations and international scientific findings pertinent to basketball research for athletes, coaches, physical education teachers, and the development of the basketball sports sector.

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CONFLICT OF INTEREST

All authors declare that they have no conflicts of interest.

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