

## Trends in El Rondo's Training Methods in Football: Bibliometric Analysis for 2023-2024

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**Abstract:** Football has become a popular study in the field of research. Of course there are many training methods in football. The el rondo training method is a method that is often used to train technique and physique. However, previous research was still mostly about original articles. There are still minimal studies to look for mapping and novelty using bibliometric analysis. The aim of the research is to carry out bibliometric analysis with the themes of el rondo (1) research productivity (2) trends in popular articles that are widely cited, and (3) author affiliation, (4) co-authorship or author collaboration. The research method is a bibliometric-based literature review, data collection using Google Scholar, Mendeley and VOSviewer databases. The keywords to search for data are “el rondo” AND “rondo” AND “football. Inclusion criteria for original articles, literature review articles for 2023-2024. Data was found for 53 articles which were selected to become 16 articles. The results of article productivity for 2023-2024 amounted to 16 documents. Popular article trends that were widely cited were research from Sigalingging & Hendrawan and Permadi & Muhamad. The affiliates of authors who have written extensively on this topic are PGRI Semarang State University and Garut University. Co-authorship which often collaborates with four authors. It is hoped that this bibliometric analysis research can provide information regarding the distribution of the topics being written about. Even though this article has been completed well, it needs improvement in the future, such as not only studying in Indonesian, expanding the year and using broader keywords.

**Keywords;** el rondo, football, bibliometric analysis

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### INTRODUCTION

Football is an interesting sport to be proposed in research. Studies related to football have been very developed, such as studies on the development of training aids, the development of tools to measure physical condition, the development and testing of training methods. The most interesting thing in developing and testing training methods is knowing the effectiveness of training methods on technical, physical skills, elements of cooperation and others. Recently, the game experience learning (GEL) training method has been discovered. This method provides scientific evidence that football at a young age is not only about physical

improvement, but other aspects such as respect, cooperation and discipline are also no less important (Sulistiyono et al. , 2021; Yudanto et al., 2022) . Apart from that, methods such as massed and distributed, namely developing basic soccer skills, are widely tested at young and adolescent ages (Hartono et al., 2024).

Then the small side game method is a very familiar method for testing in technical and physical aspects (Fitrian et al., 2023). Previous studies support that small side games are very effective for soccer players (Badawi & Nasrulloh, 2023). A training method that is similar to small side games is the el rondo method. Maybe as sports enthusiasts and coaches you are still unfamiliar with these words, but all football coaches and players often use this training method. The el rondo training method in simple terms is the cat and mouse method.

The rule in the El Rondo training method is that one or two in the middle are the people who chase the ball, then five to six or more outside are the people who play the ball so that it is not touched and snatched by two people in the area. Characteristically, of course, football players are required to have basic skills such as dribbling, passing and receiving the ball well so that the ball is not snatched by the players inside. Apart from that, good aspects of cooperation and concentration are needed, then physical aspects such as endurance, speed and agility are very important. The El Rondo training method plays a role. Of course, there are many studies discussing the testing of the El Rondo training method in soccer players (Hasyim, Naufal, Rifqi & Syafii, 2022; Short et al., 2020). As a study from states that the el rondo method has a positive effect on passing in football (Julianto, 2022),

The studies above provide evidence that the El Rondo method is a simple method but has a positive effect on improving physical and basic football playing skills. If you look at the type of research that already exists regarding the El Rondo training method, there is still a lot about original articles. This means that researchers' enthusiasm about the El Rondo method is good, but further discussion is needed about how this original article can be studied in depth by synthesizing and mapping with literature review research. Research using literature review is research using secondary data in the form of data such as original articles that have been published in journal databases, so that the aim is to see the actual effectiveness and impact seen from the literature review paradigm.

There are of course many types of literature review research, but recently literature review research based on bibliometric analysis has become a research trend by various academic circles. Bibliometrics is bibliographic analysis to see and map existing research trends, so that the data obtained provides meaning and information for readers and further researchers. Moreover, bibliometric-based research on the El Rondo training method is still minimal to the author's knowledge, so this is the background to the author's problem in conducting bibliometric analysis research. Therefore, this research aims to conduct a bibliometric analysis of trends in the El Rondo training method, specifically examining (1) research productivity

(2) trends in popular articles that are widely cited, and (3) author affiliation, (4) co-authorship or collaboration. writer.

## METHOD

This research is a bibliometric analysis. The research stage is (1) identifying documents in the form of articles using the Google Scholar database with the keywords "el rondo" AND "rondo" AND "football". Stage (2) conducts research investigations with inclusion criteria being original articles, literature review articles from 2023-2024 in Indonesian. Beyond that, it is used as an exclusion criterion. Stage (3) determines the eligibility criteria for articles for further research, if the article does not match the research topic it will be deleted. In the initial identification stage, 53 articles were found, then the articles were filtered to 16. Therefore, 16 articles were found for further analysis. Data collection and analysis technology is assisted by Mendeley, VosViewer and Excel applications. This research examines (1) research productivity (2) trends in popular articles that are widely cited, and (3) author affiliation, (4) co-authorship or author collaboration.

## RESULTS

The results of this research present data related to (1) research productivity, (2) trends in popular articles that are widely cited, and (3) author affiliation, (4) co-authorship or author collaboration. The data presentation is presented with tables and diagrams below as follows:

Table 1. Research productivity

Year	Results	Percentage
2023	9	56%
2024	7	44%
Amount	16	100%

Based on the results of research productivity related to the el rondo training method in the sport of soccer, 9 (56%) documents were found in 2023 and 7 (44%) in 2024, meaning that there is a possibility that in 2024, which is underway, there will likely be an increase in research discussing the method. El Rondo practice. Presented in the diagram below as follows:

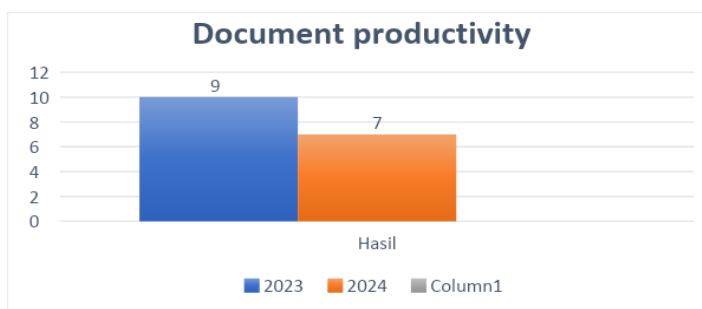


Figure 1. Research productivity diagram

Table 2. Trend of frequently cited articles

No	Title	Author	Lots of citations
1	El Rondo training with a situational game approach in an effort to improve passing skills in the sport of soccer	(Permadi & Muhammad, 2023)	2
2	Contribution of give and go passing drill and rondo game to football passing	(Sigalingging & Hendrawan, 2024)	10

Based on the results of the bibliometric analysis, two articles with the most citations were found, namely with the title "Contribution of give and go passing drill and rondo game to football passing with the author being Sigalingging & Hendrawan with a total of 10 citations (Sigalingging & Hendrawan, 2024) " then research title "El rondo training with a situational game approach in an effort to improve passing skills in the sport of football. The authors are Permadi & Muhammad, number of citations 2 (Permadi & Muhamad, 2023) ", so that it is more clearly presented in the diagram below as follows:

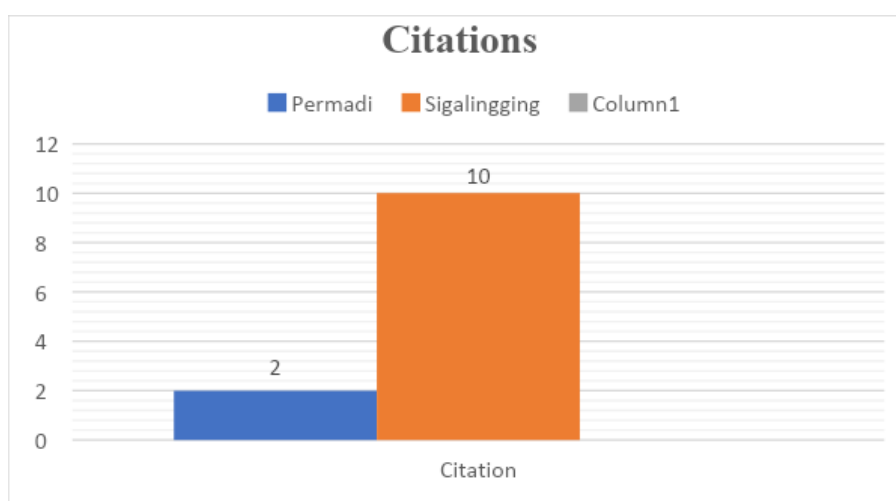


Figure 2. Diagram of highly cited articles

Table 3. Author affiliation data

No	Affiliate	Amount
1	Lambung Mangkurat University	1
2	Yogyakarta State University	1
3	Garut University	2
4	Mandalika University of Education	1
5	PGRI University Semarang	2

6	Surabaya State University	1
7	Siliwangi University	1
8	Indonesian education university	1
9	Singaperbangsa University Karawang	1
10	Padang State University	1
11	sebelas Maret University	1
12	Muhammadiyah University Jakarta	1
13	Palopo Muhammadiyah University	1
14	Makasar State University	1

Based on the results of the bibliometric analysis, the total number of affiliates mentioned is evenly distributed. However, two universities, namely PGRI University Semarang and Garut University, have conducted the most research on this topic.

## DISCUSSION

### RQ1: How will research productivity be from 2023-2024

Research productivity on the topic El Rondo from 2023 to 2024 shows a total of 16 documents published on Google Scholar. It is possible that in 2024 there will be more publications using this topic. Considering that the sport of soccer predominantly uses physical aspects, techniques and strategic games, a simple method such as el rondo can be a method that is often used in research. Authors who often carry out this research are (Ansyari et al., 2024) , (Badawi & Nasrulloh, 2023) , (Faturohman et al., 2024) , (Hermansyah & Azis, 2023) , (Ichsani, 2023) , (Jupri et al., 2023) , (Nadila, 2023) , (Nugraha et al., 2024) , (Permadi & Muhamad, 2023) , (Ramadhan et al., 2023) , (Rambe et al., 2024) , (Setiyawan, 2023) , (Sigalingging & Hendrawan, 2024) , (Sitompul, 2024) , (Yahsan, 2023) , (Zainuddin, 2024) .

Research productivity shows how many writers and researchers conduct research on this research topic, so that by knowing research productivity you can carry out research mapping and see research gaps to be carried out so as to obtain new research in the future. The study states that there are several factors that influence researcher productivity so that this causes an increase in the number of publications, including institutional characteristics (type and development of institutional management, institutional climate, funding, etc.), demographic elements such as family size, age and gender, academic ability. , confidence to choose a research topic. Social aspects such as workload, time spent, type and level of communication and supervision of doctoral students (Brew et al., 2016) .

### RQ2: How many articles are frequently cited

Based on the results of the bibliometric analysis, two articles with the most citations were found, namely with the title "Contribution of give and go passing drill and rondo game to football passing with the author being Sigalingging & Hendrawan

with a total of 10 citations (Sigalingging & Hendrawan, 2024) " then research title " "El Rondo training with a situational game approach in an effort to improve passing skills in the sport of football. The authors are Permadi & Muhammad, number of citations 2 (Permadi & Muhamad, 2023) ." Even though these two articles are more frequently cited than other articles that have been found, the citations obtained are still relatively few. This means that researchers need to be more aware of citations on relevant topics.

Many citations show that the article has had an impact on the development of relevant research so that it is used as a reference. The number of citations in an article is useful for measuring the impact of high quality scientific work (Bornmann & Daniel, 2008) . One of the successes of a scientific work in the form of an article is whether or not many other authors cite the article (Aulianto et al., 2019) . More citations are an indicator of the usefulness of published articles (Aulianto et al., 2019) . This means that scientific works that are widely cited have urgency and good quality. Apart from that, citations are an indicator for the dissemination and development of knowledge, mapping knowledge described from various disciplines, and knowing the impact of the journal.

### **RQ3: Which affiliates frequently conduct related research**

Affiliates that frequently conduct research on this topic are Lambung Mangkurat University, Yogyakarta State University, Garut University, University, Mandalika Education, PGRI University Semarang, Surabaya State University, Siliwangi University, Indonesian Education University, Singaperbangsa Karawang University, Padang State University, Sebelas University March, Muhammadiyah University Jakarta, Muhammadiyah University Palopo, Makasar State University. Even though many affiliates have been found, only 1 to 2 article documents were found in one affiliate, meaning there is still an opportunity to look for novelty research in further research development.

### RQ4: Which researchers collaborate frequently

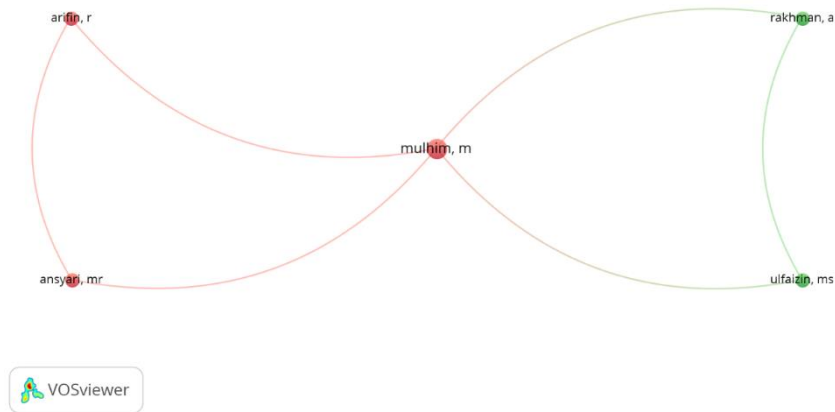


Figure 3. Co-authorship relationships (Network visualization)

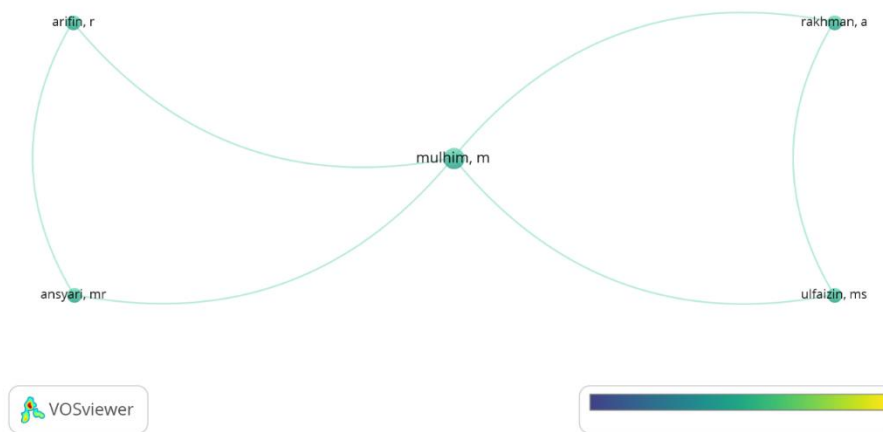


Figure 4. Co-authorship relationships (Overley visualization)



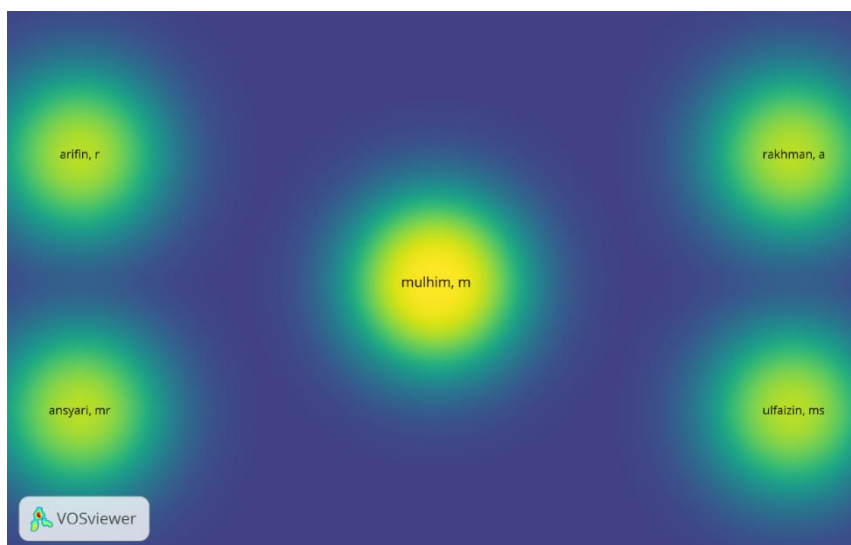


Figure 5. Co-authorship relationships (Density visualization)

Based on the bibliometric analysis of co-authorship which has been described in figures 3, 4 and 5, it shows that there is connection and collaboration between authors on this topic. Research collaboration is one means of developing scientific expertise so as to obtain good results and writing. Studies state that collaboration helps to solve problems and develop comprehensive knowledge (Hanief, Nanda, 2021).

## CONCLUSION

Based on the results and discussions found by the bibliometric analysis of article productivity for 2023-2024 totaling 16 documents, the trend of popular articles that are widely cited is research from Sigalingging & Hendrawan and Permadi & Muhamad. The affiliates of authors who have written extensively on this topic are PGRI Semarang State University and Garut University. Co-authorship which often collaborates with four authors. It is hoped that this bibliometric analysis research can provide information regarding the distribution of the topics being written about. Even though this article has been completed well, it needs improvement in the future, such as not only studying in Indonesian, expanding the years and using broader keywords.

## Conflict of Interest

All authors declare no conflict of interest.

## Acknowledgment

The author would like to thank the writing team, so that this article can be completed well.



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