



Trends in Teacher Personality Research Through Bibliometric Analysis (2014-2024)

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Abstract

This research aims to analyze and examine the development of research trends regarding teacher personality from 2014 to 2024. This research uses bibliometric research methods assisted by the VOSviewer application. The data used are articles that have been published in Scopus indexed scientific journals totaling 217 documents. The results of the analysis show that the topic of teacher personality has a numerical trend that is still fluctuating and tends to decrease in 2024. Kim, L.E. is the most authored on this topic. Russia is the top country discussing this topic and Indonesia is in fifth place. The VOSviewer overlay visualization results show that there are 4 main clusters in this topic and it is an interesting and widely reviewed research trend. Therefore, research on the topic of teacher character which is linked to various variables and research trends that have been published has great potential to be carried out further and in depth. So, it can be recommended to study more deeply the topic of teacher personality at various levels of education.

Keyword : Teacher, Personality, Teacher Personality, Bibliometric.

1. INTRODUCTION

Teachers have a big role in planning effective learning strategies to be implemented [1] [2] [3] [4]. The number of variations in learning activities is influenced by teacher characteristics [5] because teachers are central to the teaching and learning process [6]. Teachers have a big role in building students' personalities [7]. Teachers are required to be able to behave in a way that is guided by conscience, care about upholding social ethics and become a personal figure who has a high appreciation of humanitarian issues, honesty, democratization, tolerance, and is able to respond to all problems faced by society and the nation. Therefore, it is teachers whose quality must be improved to increase student achievement [8] [9] in accordance with the competencies that teachers must have including pedagogical, personal, social and professional competencies obtained through professional education [7] [10].

Personality competency is a competency that is very important to master for the continued development of character education because personality traits are more persistent and will continuously influence learning activities as the teacher's character

persistent and will continuously influence learning activities as the teacher's character influences student achievement [5] [11]. Personality competency is a personal ability that reflects a personality that is steady, stable, mature, wise and wise, dignified, has noble character, being a role model for students and society, evaluating one's own performance, and developing oneself continuously [12] [7]. Therefore, personality in the competency domain is urgent because it is the basis for teachers to develop the other three competencies. The development of teacher personality is paralleled with the development of all other aspects of teacher professionalism, considering that the development of the curriculum currently implemented in Indonesia is a curriculum that prioritizes aspects of character education for students [13].

Research on teacher personality has been conducted by many people around the world for example [14] [15] [16] [17] [18]. This is certainly an interesting topic to discuss in research to improve the quality of learning processes and outcomes in the world of education. However, a study is needed to analyze more fully which parts of the teacher personality topic need to be studied more deeply. Therefore, it is necessary to carry out bibliometric analysis, which is a systematic technique used in journals, scientific articles, or other written and unwritten publications [19] [2] [22] [20] [23]. This bibliometric analysis will make it easier for journal editors to publish an article and better understand the subject matter. On the other hand, the data obtained will provide an overview for researchers to be able to see research progress based on the number of relevant publications. The aim of this research is to analyze the development of research on the topic of teacher personality in 2014-2024. To determine the development of project-based learning in higher education in 2014-2024 using bibliographic analysis techniques. This study contributes to further research progress on teacher personality in 2014-2023.

2. METHODS

Literature study with bibliometric analysis is the method used in this research. Bibliometric analysis is a systematic technique used in journals, scientific articles, or other written and unwritten publications through analysis of published articles and then used as a basis to strengthen further research [19] [2] [20]. This research consists of 5 stages which can be explained in Figure 1 [21] [22] [23] [25] [24]

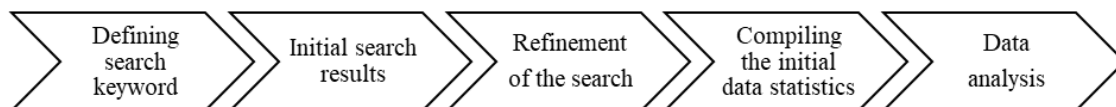


Figure 1. Stages of Bibliometric Analysis

The data used in this research comes from Scopus with several keywords that have been determined. The keyword used in the Scopus data search was "teacher personality" from 2014-2024. 439 documents were found in the 2014-2024 Scopus

database and only 217 documents matched the criteria for this research (see figure 2). Data obtained from the Scopus database is downloaded in RIS and CSV format. The database in RIS format is processed with the VOSviewer application which can determine cluster visualization in teacher personality research [22] [20] [23]. Then the database in CSV format is processed in Microsoft Excel to be visualized into graphs [22] [23]. The data that will be analyzed includes document publications, distribution of affiliations and institutions, top authors who played a role in publications, distribution of publications in countries and languages, journal sources and publishers and cluster visualization results in teacher personality research during 2014-2024. [19] [2] [24].

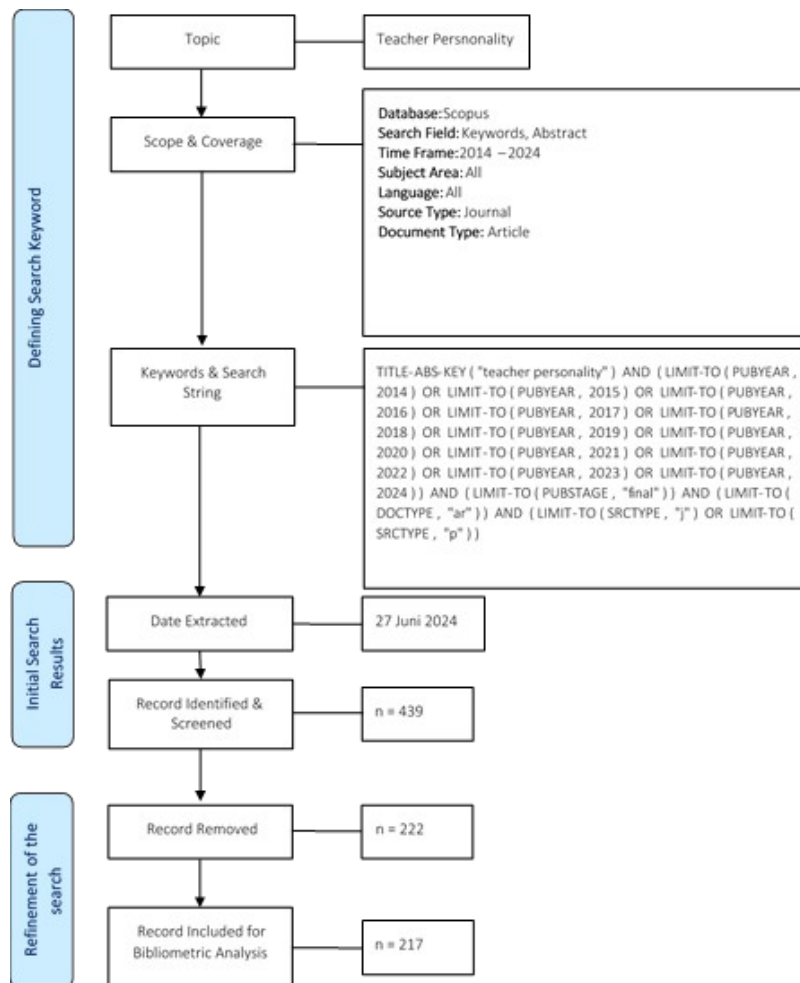


Figure 2. Illustration of Initial Search and Refinement

3. RESULTS AND DISCUSSION

3.1 Publication Outputs, Document Sources and Language Sources in Teacher Personality Research

Based on search results in the Scopus database, there are 439 documents related to teacher personality research. Because this research covers the years 2014 to 2024, the data used is limited to 217 documents (see Figure 2). Documents that appear in searches include Articles, Conference Papers, Book Chapters, Reviews, Books, and Conference Reviews, but this analysis is limited to article sources. The number of documents discussing this topic generally increases from year to year, although the increase is not stable. It can be seen in Figure 3 that in 2015 it experienced a decline, but from 2016 to 2018 it experienced an increase, although in 2019 it experienced a decrease and there was another significant increase until 2021. Then, in 2022 it experienced a decrease again and increased significantly in 2023 and decrease again in 2024 because it is still ongoing.

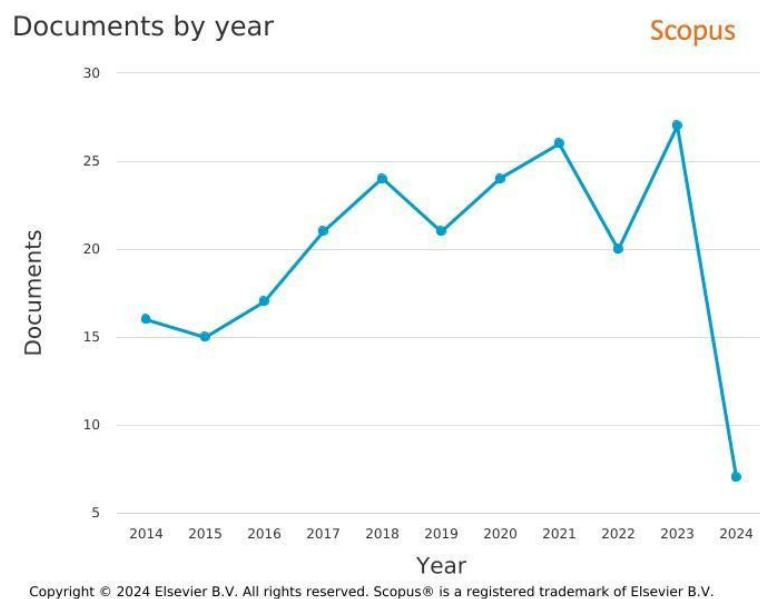


Figure 3. Documents by Year

Furthermore, Figure 4 shows that 85% of the 217 articles discussing teacher personality use English (185 articles), 18 articles use Russian, 5 articles use Lithuanian, 2 articles use Spanish, 2 articles use Croatian, and the others article use Korean, Estonian, Serbian, German, Czech, Slovenian, and the others article use Korean, Estonian, Serbian, German, Czech and Slovenian.

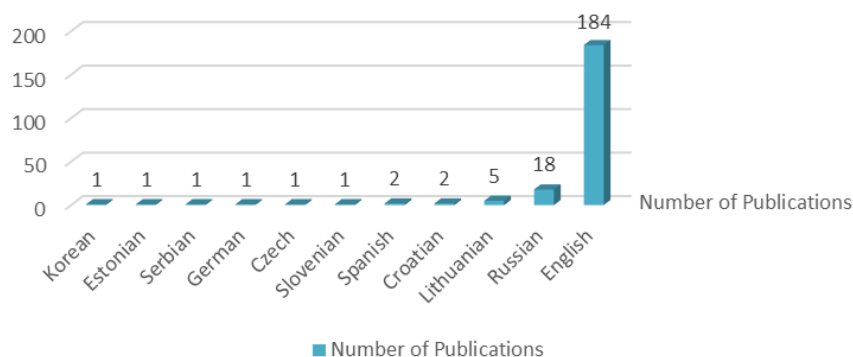
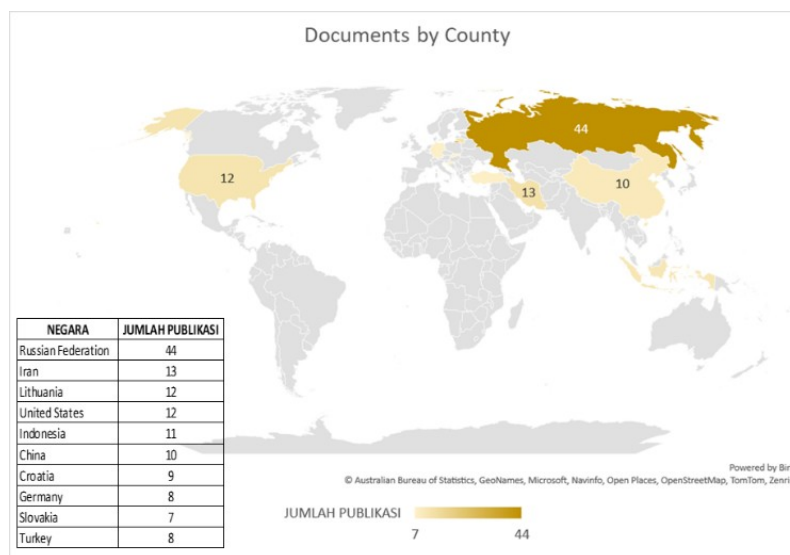


Figure 4. Documents by Language

3.2 Publication Distribution of Countries, Affiliations, and Top Author in Teacher Personality Research

According to data from the Scopus database, the country with the most articles on the topic of teacher personality is the Russian Federation with 44 articles which can be seen in Figure 5. Apart from the Russian Federation, other countries that dominate include Iran (13 documents), Lithuania (12 documents), United States (12 documents), Indonesia (11 documents), China (10 documents), Croatia (9 documents), Germany (8 documents), Slovakia (8 documents), and Turkey (8 documents).

**Figure 5.** Documents by County

It can be seen in Figure 6 that in the period 2014-2024 there are the top 10 affiliation that have done the most research on teacher personality, namely Kazan Vederal University (11 documents), Vytautas Magnus University (6 documents), University of New York (5 documents), HSE University (4 documents), University of Zagreb (3 documents), University of Zadar (3 documents), The Education University of Hong Kong (3 documents), University of Rijeka (3 documents), Islamic Azad University (3 documents), and Universiteit Gent (3 documents). It can be concluded that affiliates located in the territory of the Russian Federation dominate research publications on teacher personality during 2014-2024 with a total of 18 documents.

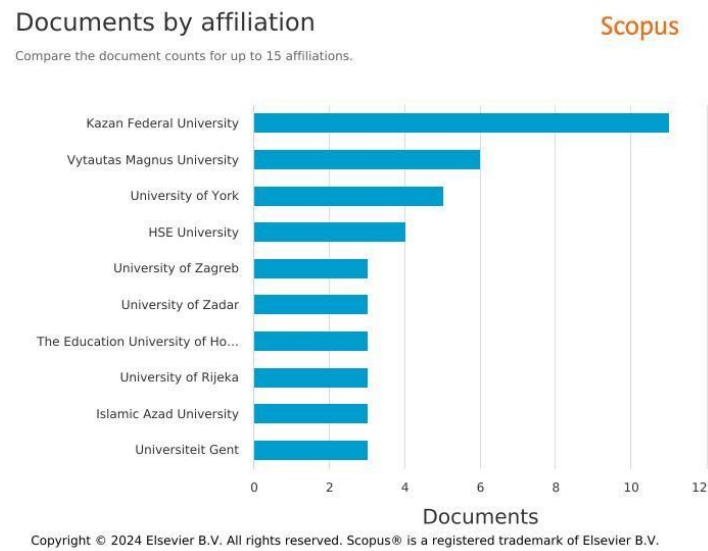


Figure 6. Documents by Affiliation

In Figure 7, the author with the most research on the topic of teacher personality from 2014 to 2024 is Kim L.E., producing 5 research documents. Abrahams, L. follows in second place with 3 research documents and is followed by Budiman, N., Buric, I., Cheung, R.H.P., Fruyt, F.D., Gabali, C., Grygus, I., Hagner-Derengowska, M., and Hidayah, N., each producing 2 research documents.

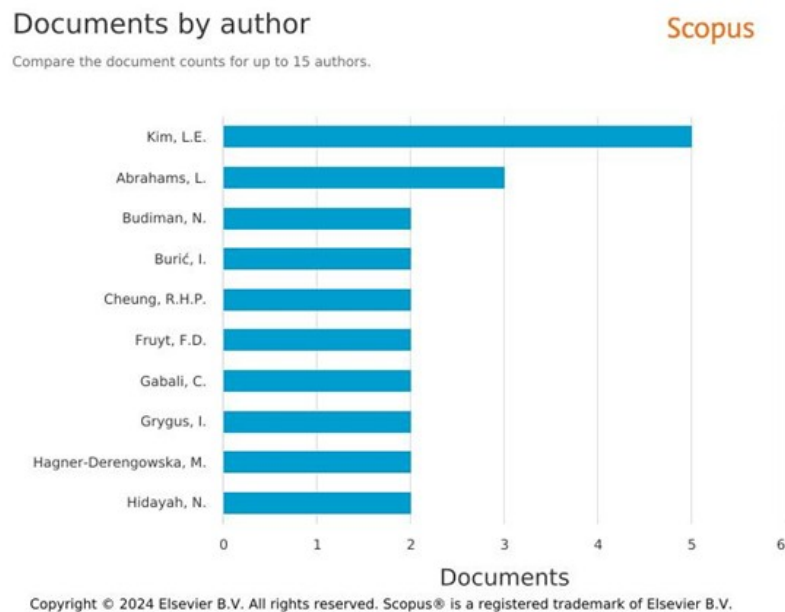


Figure 7. Documents by Author

3.3 Publication Patterns: Source and Subject Area

Based on Figure 8, the journal that regularly publishes articles discussing teacher personality is *Frontiers in Psychology*, publishing 1 document per year from 2016-2023. This is followed by *Perspektivy Nauki/Obrazovania* which published documents from 2018-2022. The journal that first published on teacher personality was *Pedagogika*, followed by *New Educational Review*. *Espacios* also published documents on this topic in 2017-2018.

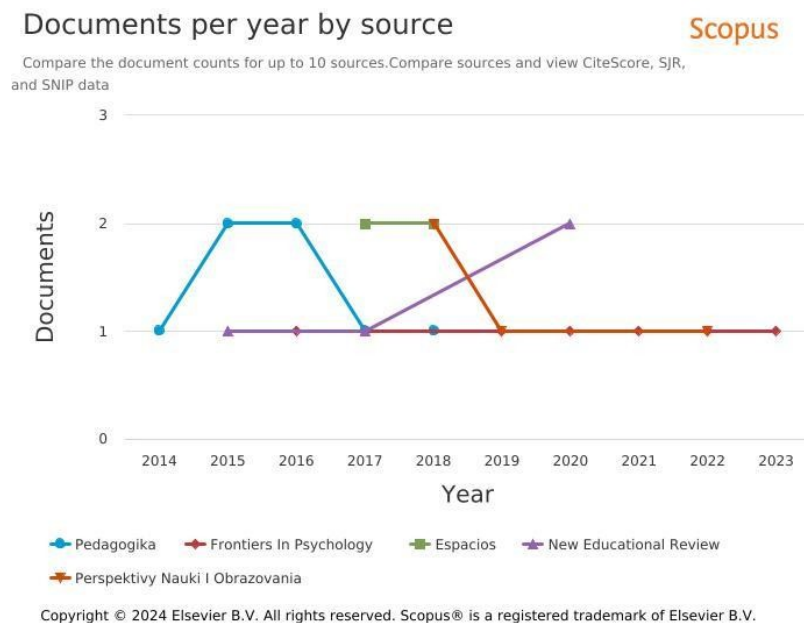
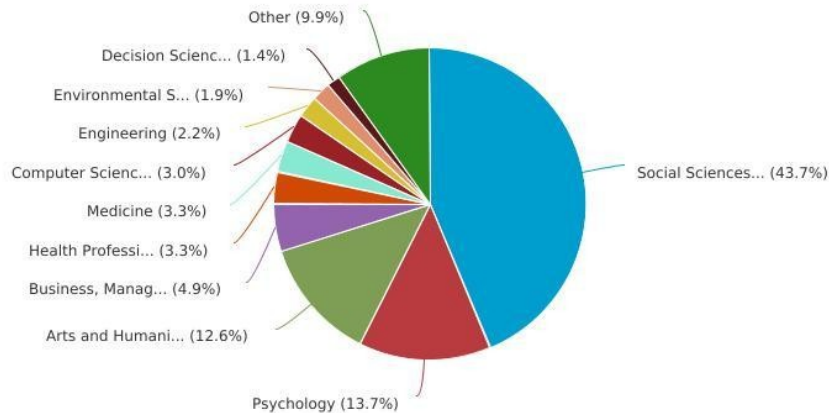


Figure 8. Documents by source

Next, in Figure 9, it is evident that from 2014-2024, the topic of teacher personality was discussed more in the subject areas of Social Sciences and Humanities (43.7%). This topic is also widely discussed in Psychology (13.7%), Arts and Humanities (12.6%), and other areas (9.9%). Other fields include Business, Management, and Accounting (4.9%), Health Professional Education (3.3%), Medicine (3.3%), Computer Science (3%), Engineering (2.2%), Environmental Science (1.9%), and Decision Science (1.4%).

Documents by subject area

Scopus



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Figure 9. Documents by subject area

3.4 Visualization of Teacher Personality Research Trends Based on Vosviewer Software

According to Scopus database, 217 available teacher personality studies can be visualized using the VOSviewer application. The results show that there are several clusters that are actively communicating. These clusters establish relationships between variables and designs. This helps us in finding new information in published research. Figure 10 allows a more comprehensive visualization of teacher personality. This research revealed four clusters in total and all of them are main clusters. In Figure 10, it appears that the first cluster is red, which illustrates the relationship between teacher personality research and the field of psychology such as personality traits, motivations, job satisfaction, work engagement, big five, big five personality traits, teachers, and teacher personality itself. the second cluster is green, which describes the relationship between teacher personality research and the humanities field such as human, humans, human experiment, male, female, adult, and teaching. The third cluster is blue, which describes the relationship between teacher personality research and educational fields such as education, educational process, culture, higher education, personality, and students. finally, the fourth cluster is yellow, which describes the relationship between teacher personality research and other fields, such as articles, perceptions, creativity, and teachers.

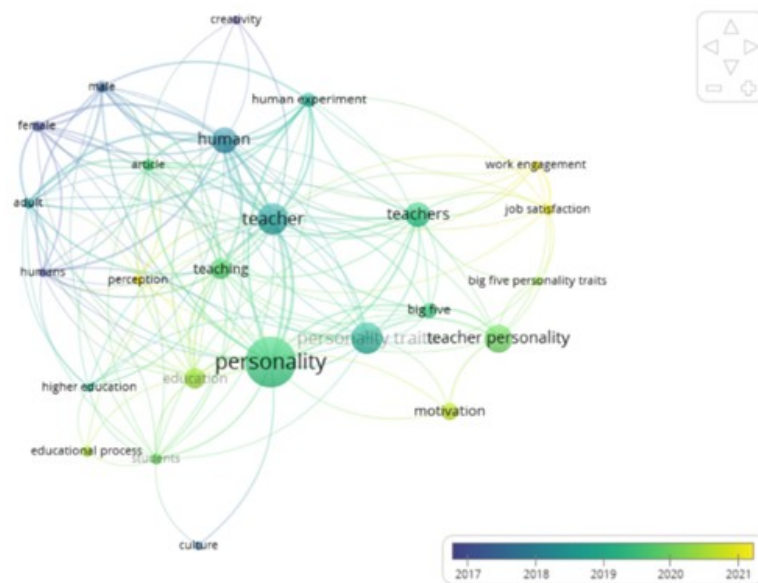


Figure 11. Overlay Visualization of Teacher Personality Research Trends Based on Vosviewer Software

Last, based on density visualization on Vosviewer software, figure 12 below displays key-words that are widely researched related to the themes in this research. The brighter and big-ger the circle, the more research there will be for that keyword. It can be seen from the results of publications with 217 documents that personality and teacher personality have the largest loop because they are the most researched keywords. There are also those that have small loops with a faint yellow color, they even tend to be green like personality traits and students, which means that there is still little research on the theme of this research. This indicates that the research topic on personality traits is still widely discussed and if you want to discuss it in more depth you can focus on personality traits and students.

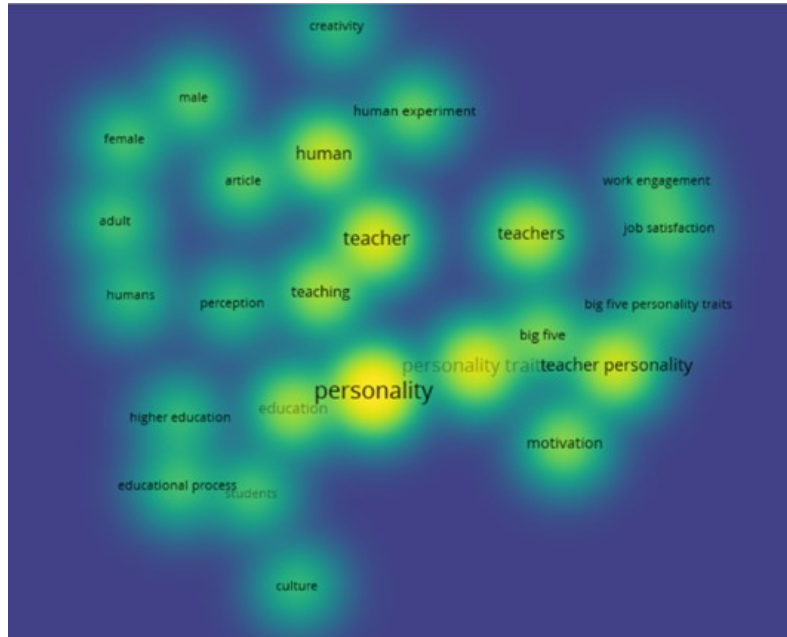


Figure 12. Density Visualization of Teacher Personality Research Trends Based on Vosviewer Software

4. CONCLUSION

Based on the results of the bibliometric analysis above, several important conclusions can be drawn regarding research trends on the topic of teacher personality. During 2014-2024 there were 217 documents discussing this topic in the Scopus database and came from English language journals. The research trend on the topic of teacher personality always fluctuates positively even though it experienced a decline in 2015, 2019, 2022 and most recently in 2024. The Russian Federation is listed as the highest country discussing teacher personality and Ka-zan Federal University is the owner of the most documents. The top writers are dominated by Kim L.E. which has 5 published articles. This research produced 4 clusters which were visualized through the VOSviewer application in red (cluster 1), green (cluster 2), blue (cluster 3), and yellow (cluster 4). This cluster division is related to users and management of teacher personality, countries with the best teacher personality research, perspectives in teacher personality research, values used in teacher personality research, approaches and research fields and concepts in teacher personality research. Based on the data that has been visualized in research on the topic of teacher personality, which is linked to various variables and research trends that have been carried out, as well as the potential for research on the topic of teacher personality through the VOSviewer application, it appears that research on teacher personality is often linked to various relevant variables. On the other hand, this research trend is still fluctuating so it has great potential and opportunities to carry out broader and deeper research on this

topic. Therefore, it can be recommended in subsequent studies to examine more deeply the topic of teacher personality at various levels of education. This can certainly be useful in improving the quality of education and teaching including strengthening character education for teachers and students.

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