
Trends of primary Schools' Conflict Resolution as Peace Education: A Bibliometric Analysis

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Abstract

This research aimed to analyze computational mapping on bibliometric data "Primary School Conflict Resolution as Peace Education" from the Google Scholar database via Publish or Perish software. Based on the research results, there were 950 relevant articles published from 2013 to 2023. The research results focused on three areas: the term conflict resolution, the term peace education, and the term primary school by showing the development of the number of articles, which experienced a significant increase from 2013 until 2017. The development of this research is starting to be published less frequently, as can be seen from the drastic decline from 2021 to 2023. Therefore, it can be said to be experiencing a decline. Through VOSviewer, this research analyzes many published articles related to the topic. The impact of this review is a starting point for conducting research on related topics in the future.

Keywords

Bibliometric, conflict resolution, peace education, primary school

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Introduction

Conflict is an incident of dispute or problem between two or more people that occurs anywhere, anyone, and at any time. The conflict appears naturally as a form of social interaction where each party wants to defeat each other (Maftuh, 2005). Meanwhile, for primary school students, conflict dominantly appears starting from small to big conflicts in their interactions with their peers. Peer conflict is a thing that happens consistently because of the existence of friendship interaction activities (Chen et al., 2010). The problems that trigger conflict are various, like mocking names that can offend students and prohibiting lending goods to friends. The teacher's efforts only silence the students who cry without any follow-up and efforts to resolve the conflict at the front. After this case, the conflicted students will become friends again without regard to further peace efforts. It is a trigger problem related to physical or psychological in the future, whether students will become accustomed to being like that when they experience problems or only keep quiet and feel resentment towards friends who are against the student. Problem-solving (conflict resolution) is the basis of the efforts made through learning carried out by teachers to improve students' abilities in problem-solving. It proves that conflict occurs through social interactions in the school environment, especially between students and various problem-solving efforts (Istianti et al., 2022; Wahyuningsih, 2015)

Cases of student violence at school are not new things, so the school is more alert and supervises its students to avoid bullying in their school. Therefore, school will not be a pleasant place to live for students but rather a means of disagreement. It will impact quality education, especially the decline in student learning processes and achievements. One of the reasons is not only that. However, learning carried out does not inspire students to express opinions and cultivate the character of togetherness for respecting differences between human beings, namely peace education. Peace education is to teach information, attitudes, values, and competencies behavior required to resolve conflicts without violence as well as to build and maintain togetherness and harmony with oneself, with others, and with the environment (Brooks, 2020; Buchori & Fakhri 2022; Eliasa, 2019; Johnson & Johnson, 2005; Salomon, 2002)

There are analytical techniques to see the development of research in primary school conflict resolution education to realize peace education in primary schools. This technique is known as Bibliometric Analysis, a meta-analysis of research data that can help researchers study bibliographic content and analyze quotations from articles published in journals and other scientific works. Based on the analysis findings, we examined bibliographic data from publications between 2013 and 2023 to see whether bibliometrics on conflict resolution education to realize peace education in primary schools has succeeded in developing internationally. Table 1 below explains the results of the discussion of topics from bibliometric research on the findings of previous analysis.

Table 1. *The latest research on bibliometrics in the field of Primary Schools' Conflict Resolution as Peace Education*

Title	Topic Discussion
Research from 1996 to 2019 on approaches to address conflicts in schools: A bibliometric review of publication activity and research topics.	The research aims to examine publication activity, geographic spread, and dominant research topics.
A bibliometric review of approaches to address conflicts in schools: Exploring the intellectual base.	The research aims to examine Increasing numbers of student teachers, teachers, and teacher educators who require training in research-based knowledge about how to address conflicts in schools.
A bibliometric review of learning approaches in primary education level: examining the Indonesian contribution to the field.	The main aim of this bibliometric investigation is to identify prevalent research patterns and evaluate Indonesia's scientific contributions to the research of learning approaches in primary education.
An overview of social studies articles in Turkey: Bibliometric mapping analysis.	This research applies a bibliometric analysis to articles that have been published in Turkey in the field of social studies. "Social studies" is a discipline that aims to develop a human model with certain features applicable both for researchers' countries and globally.
Mapping research on social studies education in Turkey: A bibliometric review.	The main objective of this research is to evaluate the social studies education literature in Turkey through systematic bibliometric analysis.
Analysis of trends in the application of augmented reality in students with ASD.	Analyze conceptually, intellectually, and socially the global trends in the application of AR in students with ASD using bibliometric techniques in the Web of Science (WOS) and Scopus.
A bibliometric analysis of using Web 2.0s in the educational research area.	The present research is to reveal the tendency towards Web 2.0s in the educational research area with the analysis of bibliometric mapping.
Bibliometric analysis of educational research articles published in the field of social study education based on web of science database Participatory Educational Research (PER).	The research investigated scientific articles related to Social Studies education in terms of bibliometric tools quantitatively.
Correlating the perceptions of preservice primary teachers and social studies in the elementary curriculum.	The research findings suggest preservice teachers often hold negative views of social studies and fail to connect it to citizenship, the goal of social studies.
General trends of studies on flipped classroom model: bibliometric mapping and content analysis.	This research, which was based on qualitative research design, aimed to examine the research trends and results of bibliometric mapping analyses of articles about the Flipped Classroom Model (FCM) in education in the past ten years.
A bibliometric analysis of Moodle e-learning: evidence from 2011 to 2021.	The research to present a comprehensive literature review on Moodle e-learning in teaching and learning.

Research on mathematics problem-solving in primary education conducted from 1969 to 2021: A bibliometric review.	This research captures the research landscape of past studies related to mathematics problem-solving in primary education from 1969 to 2021 through a bibliometric analysis.
Science mapping of international research in Turkey-based social studies education: A bibliometric analysis.	In this research, the aims of international research on social studies education based in Turkey were investigated.
Bibliometric mapping of metaverse in education.	This research aims to present a bibliometric map of studies on the use of metaverse in education.
Publication trends in biology education: A bibliometric review of 63 years.	This research focused on analyzing publication trends in updating scientific datasets and knowledge in this field.
Augmented reality in STEM education: Bibliometric analysis.	This research is to conduct a bibliometric analysis of studies on the use of augmented reality applications in STEM education in the literature.
Artificial intelligence in education: A bibliometric study.	this research is to examine the studies in the literature on the use of artificial intelligence in education in terms of its bibliometric properties.
An examination of the studies on STEM in education: A bibliometric mapping analysis	This research is to propose a bibliometric map of studies on the use of STEM in education.
A bibliometric analysis of materials research in the Indonesian journal using VOSviewer.	This research is to analyze the scope of research on materials using a bibliometric review and data mapping process.
Online education research trends in science education: content and bibliometric mapping analysis.	This research aims to reveal online education research trends in science education through content analysis and to examine the bibliometric structure of articles on online education in science education.
Bibliometric analysis of educational research in 2017 to 2021 using VOSviewer: Google Scholar indexed research.	This research is to combine mapping analysis with VOSviewer software to undertake a bibliometric analysis of research in the field of education.
Bibliometric using Vosviewer with Publish or Perish (using Google Scholar data): From step-by-step processing for users to the practical examples in the analysis of digital learning articles in pre and post-Covid-19 pandemic.	This research aims to analyze and demonstrate step-by-step bibliometric data analysis using VOSViewer completely and systematically.
How to search and manage references with a specific referencing style using Google Scholar: From step-by-step processing for users to the practical examples in the referencing education.	This research focused on step-by-step processing for users to the practical examples in the referencing education.
Problem-based science learning in primary schools: A bibliometric analysis.	This research aims to identify publication trends and recommendations for problem-based science learning research in primary schools using a mixed-methods research design in which descriptive, qualitative, and bibliometric analyses.

Research productivity in the human movement sciences in the Philippines: a descriptive bibliometric and social network analysis.

This research is to descriptive productivity of HMS research in the Philippines bibliometric analysis phase of this research considered research published and indexed in Google Scholar from January 2010 to June 2021 and was analyzed after data cleaning and preprocessing.

Sustainable development goals (SDGs) in science education: Definition, literature review, and bibliometric analysis.

This research aims to find is sharper on the reasons and trends of research growth on SDGs.

However, the bibliometric analysis of publication data using computational mapping in primary schools' conflict resolution as a peace education field that was done specifically for the research development in this field has not been done much. Especially bibliometric analysis for the last ten years from 2013 to 2023 using the VOSviewer application. Therefore, this research was done to analyze computational mapping analysis on Google Scholar-indexed articles using VOSviewer. This research was expected to become the reference for future research in deciding the research theme related to primary schools' conflict resolution as peace education.

Methodology

Articles data used in this research was based on the articles that are published in journals indexed in Google Scholar. The researcher chose Google Scholar because it was an open-source platform. To obtain the data, this research used reference manager software that is Publish or Perish. This software was used to obtain references based on the chosen topic or keywords. The detailed information on searching references in Google Scholar was also explained in the research by [Azizah et al. \(2021\)](#). The research was done through some steps as follows:

- Data collection using Publish or Perish software.
- Bibliometric data processing for collected data using Microsoft Excel software.
- Computational mapping analysis using VOSviewer.
- Analysis of computational analysis result.

Data collection using Publish or Perish was used to filter articles by using the keyword "primary schools' conflict resolution as peace education". The publication year of the articles was limited from 2013-2023. All data were obtained in January 2023. The collected articles were then exported into two files: research information system (.ris) and comma-separated value (.csv). VOSviewer was used to visualize and evaluate trends using bibliometric mapping. The article data from the database were mapped by VOSviewer to become 3 variations of mapping publication, network visualization, density visualization, and overlay visualization based on network (co-citation) between available items. When creating the bibliometric map, keyword frequency was set to be found three times.

Results and Discussion

Based on the data collection through Publish or Perish software in the Google Scholar database, 950 articles met the research criteria. The data collected was article metadata that consisted of author names, titles, publication years, journal name, publisher, number of citations, article links, and related URLs. Table 1 shows some publication data used in the VOSviewer analysis in this research. The data sample obtained was the 25 best articles with the most citations. The number of citations from all the articles in this research was 23380, citations per year was 2338, citations per article was 24.61, and the average amount of authors in the article was 2,15. All the articles have an average h-index of 71, and a g-index was 117.

The scholarly work that has garnered the greatest number of citations in the field of management research in society responses within the domain of education is the publication titled “Understanding and Tackling Societal Grand Challenges through Management Research” (George et al., 2016). This document has received a total of 1594 citations. The article “Estimating Dynamic State Preferences from United Nations Voting Data”, (Bailey et al., 2017) has garnered significant scholarly attention, being the second most referenced publication in its field. It has accumulated a total of 935 citations. The article “Integrating data on ethnicity, geography, and conflict: The ethnic power relations data set family”, authored by Gillies holds the distinction of being the third most often referenced publication. It has garnered a total of 697 citations. The three most frequently cited documents exhibit similar citation levels, while the fourth most cited publication, “How and Why Parents Guide the Media Use of Young Children” (Nikken & Schols, 2015), has a significantly lower number of citations. It has garnered a total of 528 citations (Table 2).

Table 2. *Most citations article publication data*

Author	Title	Year	Citations
George, Howard-Grenville, Joshi, and Tihanyi.	Understanding and tackling societal grand challenges through management research.	2016	1594
Bailey, Strezhnev, and Voeten	Estimating dynamic state preferences from United Nations voting data.	2017	935
Vogt, Bormann, Rüeegger, Cederman, Hunziker, and Girardin	Integrating data on ethnicity, geography, and conflict: The ethnic power relations data set family.	2015	697
Nikken, and Schols	How and why parents guide the media use of young children.	2015	596
Chalkiadaki	A systematic literature review of 21 st century skills and competencies in primary education.	2018	528
George, Corbishley, Khayesi, Haas, and Tihanyi	Bringing Africa in: Promising directions for management research.	2016	489

Crawford, Lingel, and Karppi	Our metrics, ourselves: A hundred years of self-tracking from the weight scale to the wrist wearable device.	2015	455
Tchamyou	The role of knowledge economy in African business.	2017	417
Addo, Jiaming, Kulbo, and Liangqiang	COVID-19: fear appeal favoring purchase behavior towards protective equipment.	2020	389
Bejan and Lorente	Constructal law of design and evolution: Physics, biology, technology, and society.	2013	361
Bambaerero and Shokrpour	The impact of the teachers' non-verbal communication on success in teaching	2017	354
Leal Filho, Azeiteiro, Alves, Pace, Mifsud, Brandli,...and Disterheft	Reinvigorating the sustainable development research agenda: the role of the sustainable development goals.	2018	346
Stephanidis, Salvendy, Antona, Chen, Dong, Duffy,...& Zhou	Seven HCI grand challenges.	2019	342
Schrodt	Seven deadly sins of contemporary quantitative political analysis.	2014	314
Chenoweth and Ulfelder	Can structural conditions explain the onset of nonviolent uprisings?	2017	312
Abiodun	Organizational conflicts: Causes, effects, and remedies.	2014	303
Strange, Dreher, Fuchs, Parks, and Tierney.	Tracking underreported financial flows: China's development finance and the aid–conflict nexus revisited.	2017	295
Creemers	Cyber China: Upgrading propaganda, public opinion work and social management for the twenty-first century.	2017	293
Lilja and Vinthagen	Sovereign power, disciplinary power and biopower: resisting what power with what resistance?	2014	293
Dutt, Hawn, Vidal, Chatterji, McGahan, and Mitchell	How open system intermediaries address institutional failures: The case of business incubators in emerging-market countries.	2016	292
Wigelsworth, Lendrum, and Oldfield	The impact of trial stage, developer involvement and international transferability on universal social and emotional learning programme outcomes: A meta-analysis.	2016	291
Walther, Miller, and Sochacka	A model of empathy in engineering as a core skill, practice orientation, and professional way of being	2017	277
Magni	Indigenous knowledge and implications for the sustainable development agenda.	2017	276
Zeitsoff	How social media is changing conflict.	2017	275
Wallensteen and Svensson	Talking peace: International mediation in armed conflicts.	2014	274

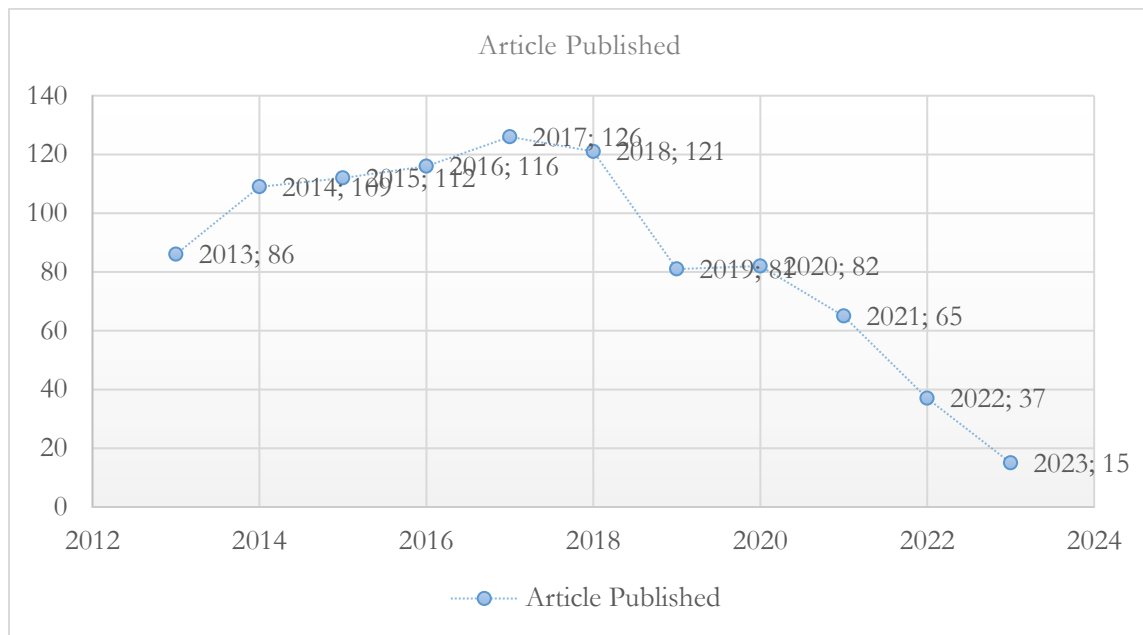
Table 3 shows the development of research on primary school conflict resolution as peace education published in Google Scholar-indexed journals. Based on the data shown in Table 2, 950 articles related to the topic were published around 2013-2023. From 2013 to 2017, the number of articles published experienced a significant increase from 86 articles to 126 articles. However, in 2018, it decreased slightly to 121 articles. In 2019, it decreased again drastically to 81, but in 2020, it increased by one article to 82 articles. The development of this research is starting to be less frequently published again, as can be seen from the drastic decrease from 65 articles in 2021 to 15 articles in 2023. These results show that there is not much research on conflict resolution education every year, especially in the last five years (2018-2023). Development also fluctuates, as can be seen in Figure 1. Table 3 shows the research development on Primary School Conflict Resolution as Peace Education.

Table 3. *Development of research primary schools' conflict resolution as peace education*

Year	Article Published
2013	86
2014	109
2015	112
2016	116
2017	126
2018	121
2019	81
2020	82
2021	65
2022	37
2023	15
Total	950
Avg	86.36363636

Figure 1 shows the development of research on conflict resolution education in primary schools over the last ten years from 2013 to 2023. Based on Figure 1, the research development related to this topic has increased from 2013 to 2017. It can be seen from the number of publications where in 2013 there were 86 articles whereas in 2017 there were only 126 articles. However, in 2018, there was a slight decrease to 121 articles. A drastic decline began to be seen from 2019 to 2023, with only 15 articles published. Data shows that the popularity of research on conflict resolution education is unstable and will lead to a decline until 2023. and it can be said that its popularity will plummet.

Figure 1. *Development of research primary schools' conflict resolution as peace education*



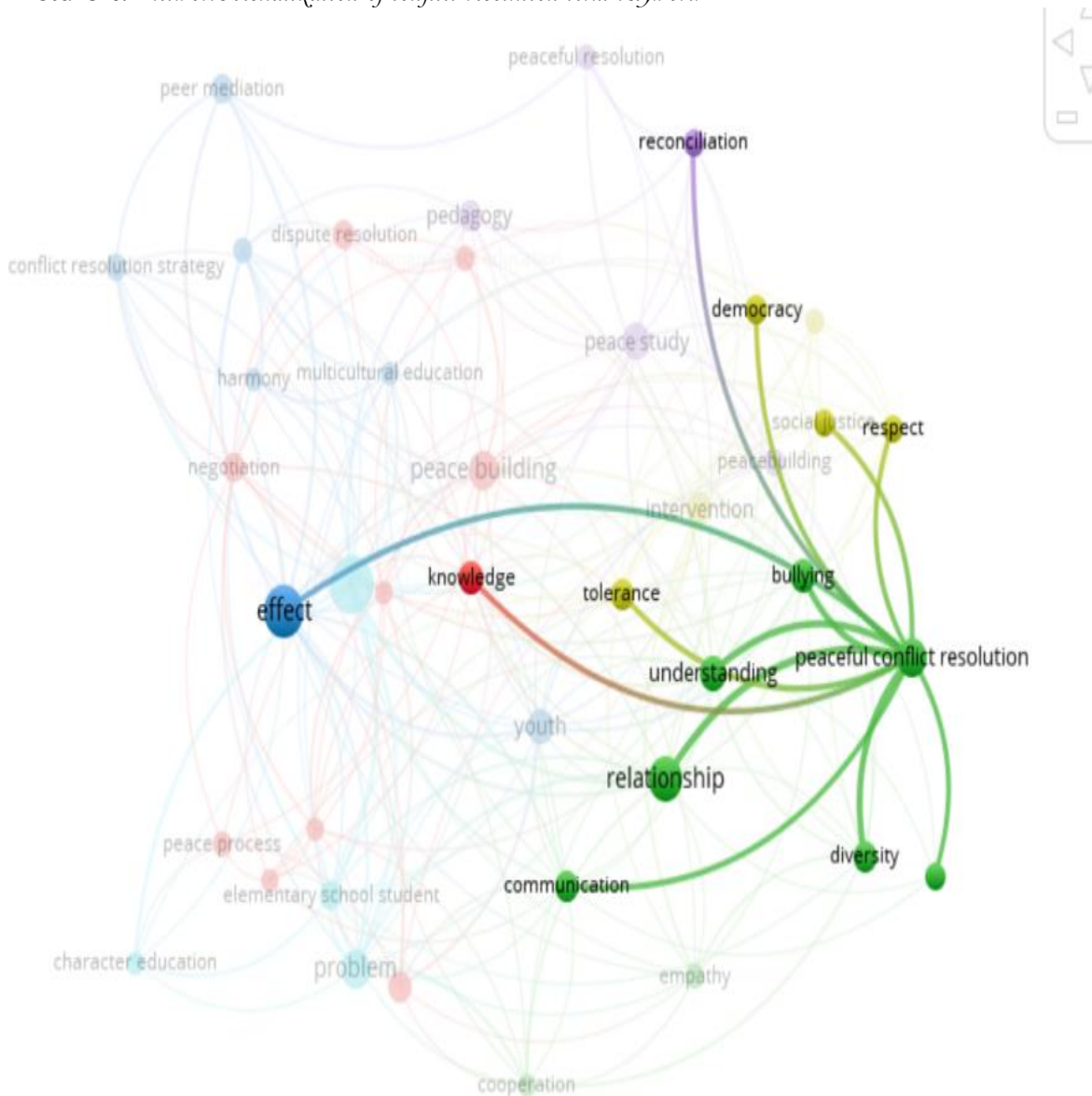
Network visualization (see Figure 1) of the topic areas studied in each cluster. Visualization of primary schools' conflict resolution as peace education topic terms. Computational mapping was done toward the article's data. VOSviewer was used as the tool for this analysis. The total strength of terms with the keywords "conflict resolution, peace education, and primary school", shows the results of segmenting 46 item visualization cluster categories into 6 clusters, as in Table 4 below.

Table 4. *Network visualization of primary schools' conflict resolution as peace education*

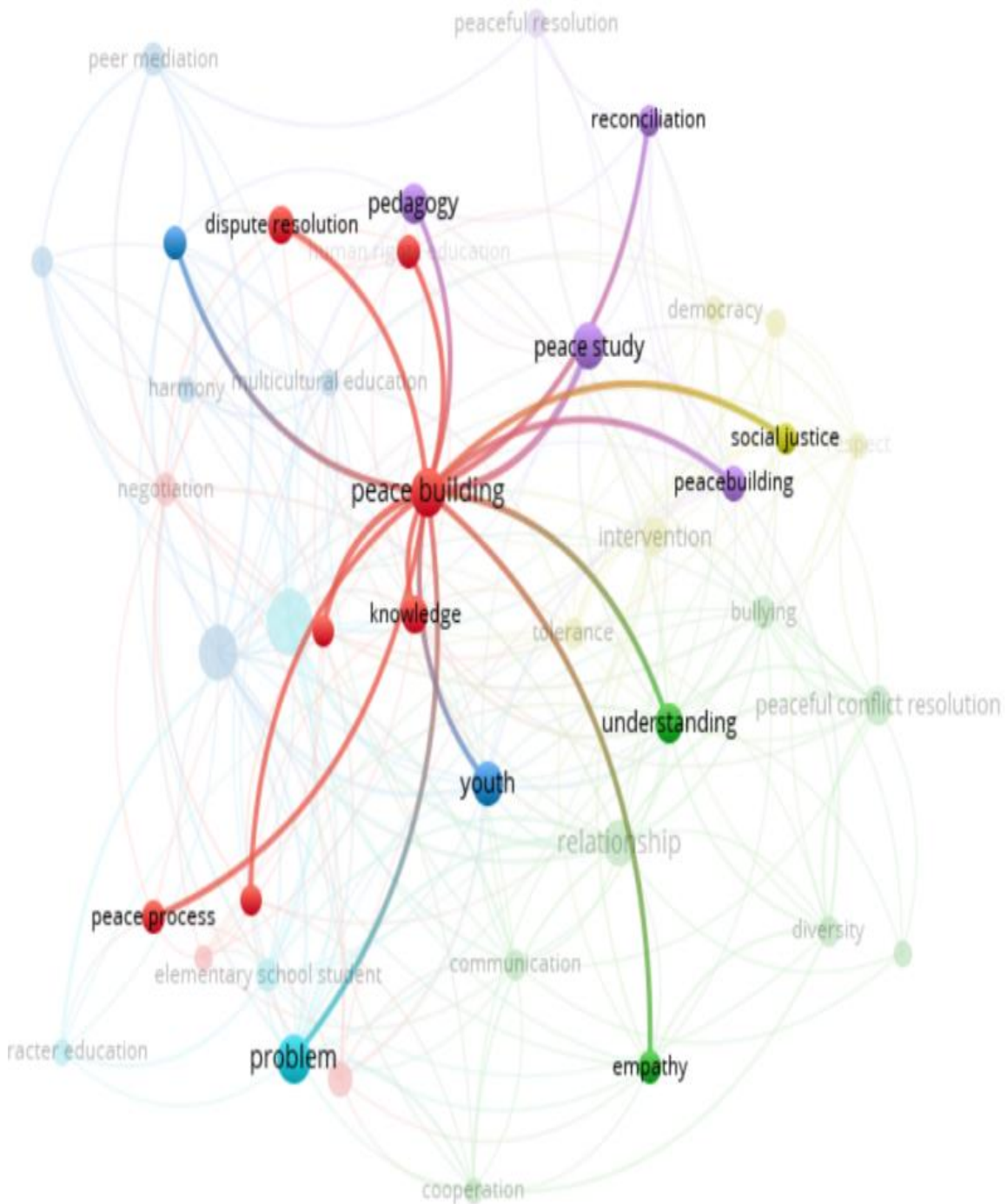
Cluster	Item	Color	Total Strength	Link	Occurrence
Cluster 1 (11 items)	Dispute resolution, global citizenship education, human rights education, knowledge, negotiation, peace building, peace education program, peace process, social study, sustainable development.	Red	123		165
Cluster 2 (10 items)	Bullying, communication, conflict management strategy, cooperation, and diversity, empathy, peaceful conflict resolution, relationship, understanding.	Green	164		167
Cluster 3 (8 items)	Conflict resolution education, conflict resolution strategy, effect, harmony, multicultural education, peer mediation, youth.	Blue	130		143

The relation between terms is depicted as an interconnected network to each other. Picture 1 shows clusters of every term that is often studied and related to the research topic. From the clusters displayed in the network visualization, the study on science education in primary schools' conflict resolution could be divided into three field study areas. The first one is conflict resolution classified as cluster 2 with 13 total links and a total link strength of 15 (Picture 4). The second term is peace building, which is classified as cluster 1 with 16 total links and 18 total link strengths (Picture 5). The last one is the primary school term classified as cluster 6 with 20 total links and 44 total link power (Picture 6).

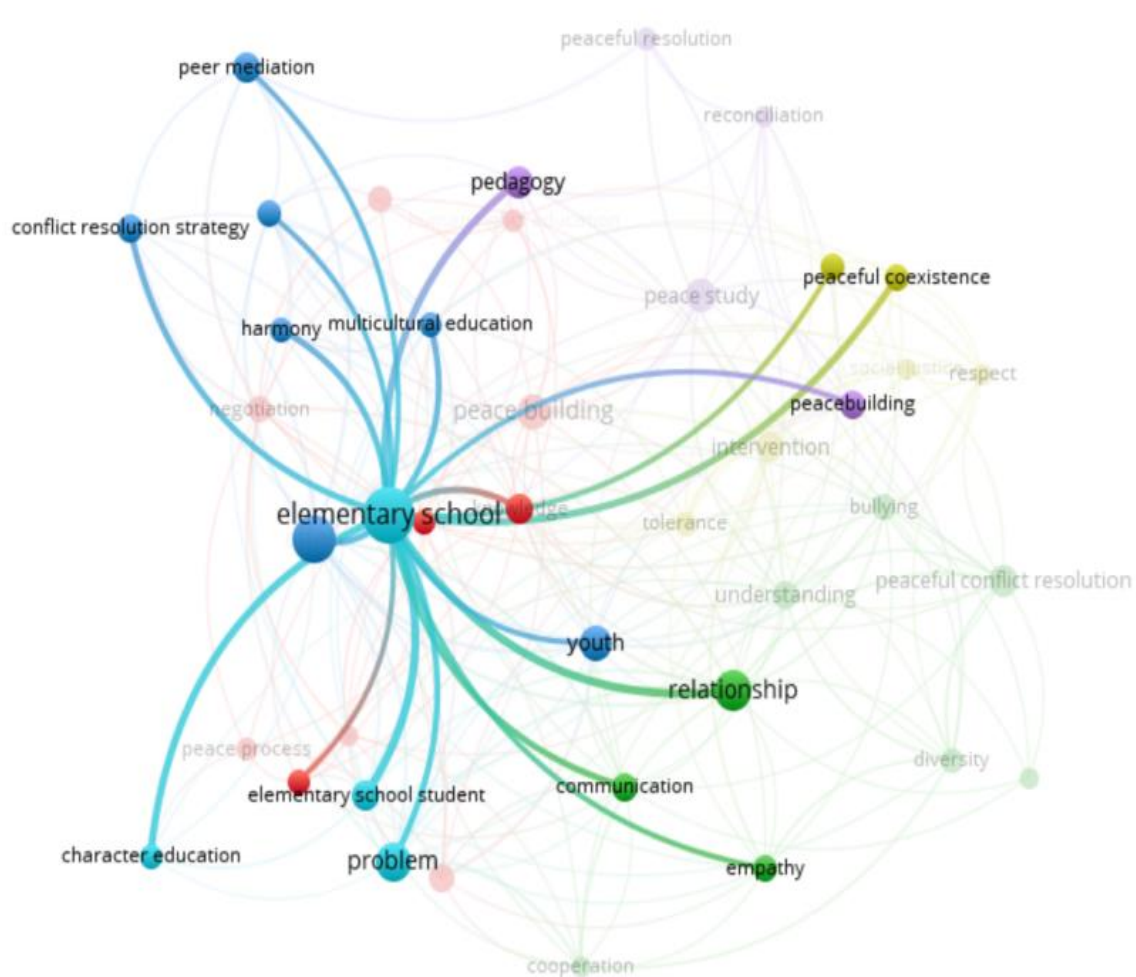
Picture 4. Network visualization of conflict resolution term keyword



Picture 5. Network visualization of peace building term keyword



Picture 6. Network visualization of primary school term keyword



Based on the data network visualization on science education in primary schools' conflict resolution (see Picture 4-6), could be divided into three field study areas. Picture 4 shows the network relation in every term, such as reconciliation, democracy, knowledge, effect, tolerance, bullying, understanding, relationship, communication, and diversity. Picture 5 shows the network relation on every term, such as reconciliation, pedagogy, dispute resolution, peace study, social justice, peace building, knowledge, and youth, understanding, empathy, problem, and peace process. Picture 6 shows the network relation on every term, such as peer mediation, pedagogy, conflict resolution strategy, harmony, multicultural education, peace building, primary school student, character education, problem, communication, empathy, relationship, and youth. The result overlay visualization shows the novelty of related research about science education in primary schools' conflict resolution was mostly done in 2018. The popularity period of conflict resolution term is quite long. Therefore, it is still possible to conduct new research on conflict resolution education in primary schools.

Conclusion

The research aimed to analyze computational mapping on the bibliometric data of research articles. The publication theme taken for this research was “Primary schools’ conflict resolution as peace education”. The articles used in this research were taken from the Google Scholar database through Publish or Perish software. References used in this research include the title and abstract. Based on the result of this research, 950 relevant articles were published from 2013 until 2023. The result of this research found that can be divided into three areas: conflict resolution term, peace education term, and primary school term. The research results show that the number of articles published experienced a significant increase from 86 articles to 126 articles from 2013 to 2017. However, in 2018, it decreased slightly to 121 articles. In 2019, it decreased drastically again to 81, but in 2020, it increased by one article to 82 articles. The development of this research is starting to be less frequently published again, as can be seen from the drastic decrease from 65 articles in 2021 to 15 articles in 2023. Therefore, it is decreasing. The research results showed that conducting research on primary schools’ conflict resolution as peace education is still highly possible and related to other terms.

Declaration of Conflicting Interests

The authors declared no potential conflicts of interest.

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