

Bibliometrics Analysis of English Teaching Method in Covid-19 Pandemic

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Abstract

Covid-19 requires educators to innovate using the adaptive English teaching method. Various researchers have researched English teaching methods to solve the learning process in the Covid-19 pandemic. Therefore multiple studies need to be compiled into one discussion to produce information for the subsequent researchers about future opportunities. This study conducts the Bibliometrics Analysis method to analyze the citation of research articles. The study population adopts article primer data of English teaching method in Covid-19 pandemic by searching through Google scholar with the key "English teaching method in Covid-19 pandemic" using Publish or Perish (PoP) software in December 2020. Based on the initial data search using the Publish or Perish (PoP) application, there were 989 articles. After screening the suitability of the topic, 63 articles were obtained, which became data to discuss. Data mapping results using the VOSViewer Software show the research trend is in the keyword that appears the most of sixty-three articles such as student, pandemic Covid, teacher, education, teaching, and EFL Teacher. Therefore, the following research potential uses other teaching media of the keyword summary presented by VOSViewer.

Keywords: English teaching method, covid-19 pandemic, bibliometrics

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INTRODUCTION

The Corona Virus Disease (Covid-19) Pandemic has spread globally in whole countries after appearing in Wuhan, China, in 2019. World Health Organization (WHO) has declared the Covid-19 as pandemic on March 13, 2020. Because its spreading is relatively fast and has been touching many people globally, many countries release the rule to work or study from home to prevent the more spread. The study from home becomes an alternative to save the students from being infected. It also brings a way to study the difference where the educator must give instructions virtually.

Many researchers have developed various instructional methods in Covid-19 Pandemic to find the solution to give the best method to facilitate the learning process. One of them is the English Teaching Method. (Patel et al., 2008) stated that the English teaching method is the entire process of planning, selecting, and assessing English language material, and the teaching process considers the students' conditions to be taught. This teaching method is applied in teaching both in class and outside the classroom that is planned, structured, and adapts to the teaching approach, goals, which have been predetermined to improve student learning experiences (Edissherashvili, 2014); (Munzaki et al., 2017); (Yildizlar, 2013). Besides, various English teaching methods need to be applied in learning other than the lecture teaching method (Mahesh Deelip et al., 2016). We know that, in general, the English teaching method always focuses on two sides. Namely the approach to language use such as speaking and understanding text, podcasts, and oral. Another concern is language analysis, namely, understanding the grammar rules in English (Murcia, 2002).

The number of researches that discuss the English Teaching Method in Covid-19 Pandemic needs to map to find the field of articles. The way to map the English Teaching Method area in the Covid-19 Pandemic is by using bibliometrics analysis. Bibliometric analysis is a method for analyzing, evaluating bibliographic data available in research journals. that can be presented quantitatively, mathematically, and statistically, which can later be used as reference material for scientific or research development trends. (Yu et al., 2019); (Ellegard, 2018); (Ardito, L. et al., 2019). Bibliometrics is responsible for checking scientific article references, indexing article citations, grouping related scientific articles, and mapping journals' scientific fields. This bibliometrics will provide an overview of the characteristics of changes and developments in research on current trends and future trends, making it easier for researchers to plan and conduct their research (Basuki, 2002); (Nobre & Tavares, 2017).

From the theories above, this study aims to expose: (1) The article number of English Teaching Method in Covid-19 Pandemic; (2) The number of journals and the publisher published articles of English Teaching Method in Covid-19 Pandemic; (3) The research trend of English Teaching Method in Covid-19 Pandemic; (4) The next topic will have the potential to study.

METHOD

This study conducts the Bibliometrics Analysis method to analyze the citation of the article. The study population adopts article primer data of English Teaching Method in Covid-19 Pandemic by searching through Google scholar with the key "English Teaching Method in Covid-19 Pandemic" using Publish or Perish (PoP) software in December 2020. There are 989 articles provided in the Software. The processed article sample is some articles that focus on English Teaching Method in Covid-19 Pandemic. Then, data processing will use other soft wares: Microsoft Excel, Mendeley, and VOSviewer.

This study has four steps to get the English teaching method data in the Covid-19 Pandemic. The first step is initial searching by using Publish or Perish Software, were found 989 articles. The second step is filtering by analyzing the articles, which are categorized as citations or books. The third step is filtering the articles which are not required as an article of the English Teaching Method in Covid-19 Pandemic. The last step is data processing, which is obtained after filtering in steps two and three. The following is the data filtering procession:

Table 1. Data purification of 989 Articles

No	Journal Search Screening	The Number of Articles
1	The number of Initial Search Journal	989
2	Unidentified/citation link/book	10
3	Not Required as English Teaching Method in Covid-19 Pandemic	916
4	English Teaching Method in Covid-19 Pandemic	63

Table 2. Initial Data Metrics and Data Purification in Publish or Perish (PoP) Software

Metric data	The Initial Search	The End Search Data
Publication Years	2019-2020	2019-2020
Citation Years	1(2019-2020)	1(2019-2020)
Papers	989	63
Citations	11320	147
Cites/year	11320.00	147.00
Cites/paper	11.45	2.33
Author/paper	2.82	1.94
H-index	42	6
G-index	90	10
hI, norm	29	3
hI,annual	29.00	3.00
Paper with ACC	>=1,2,5,10,20:760,652,341,179,93	>=1,2,5,10,20:35,24,7,3,2
Year_first	2019	2019
Year_last	2020	2020

RESULT AND DISCUSSION

Article Distribution of English Teaching Method in Covid-19 Pandemic:
 Based on the Publication Year

Based on the obtained data, the distribution of sixty-three articles of English Teaching Method in Covid-19 Pandemic is published in 2019 and 2020. The majority of articles are published in 2020 that hold fifty-two articles. While remainder, amounting to eleven articles, are published in 2019. The following is the table 4 list of articles published each year:

Table 4. List of articles published each year

Publication Year	Number of Articles	Percentage
2019	11	17,46%
2020	52	82,54%
Total	63	100 %

The data above shows that the English Teaching Method's research trend in the Covid-19 Pandemic increases. The increasing trend is significant enough to increase by 60% from publication year in 2019 to 2020.

Article Distribution of English Teaching Method in Covid-19 Pandemic:
 Based on the Quartile at SCImago

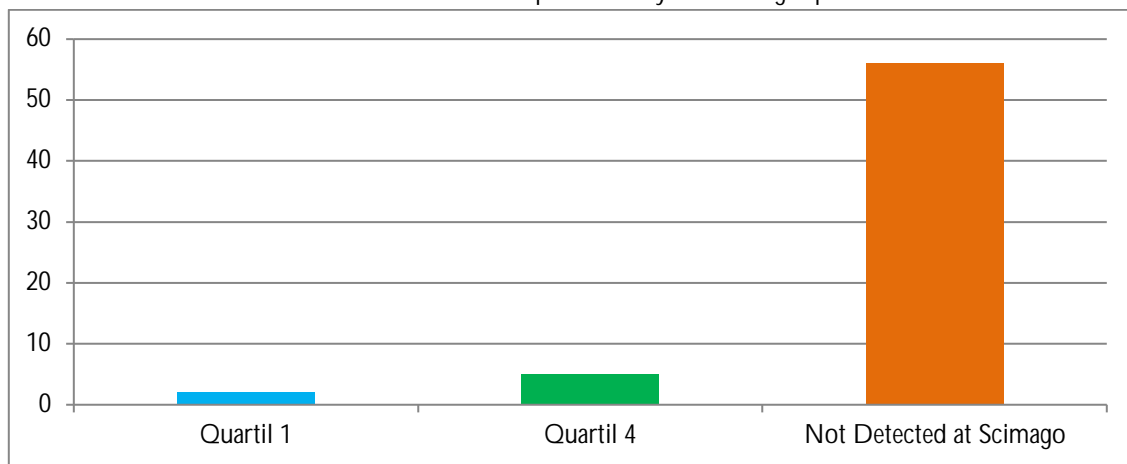
After searching scientific articles through Publish or Perish (PoP) Software on database Google Scholar by using the keyword "English Teaching Method in Covid-19 Pandemic", only sixty-three articles relate to the

context. The analysis uses the platform SCImago to know how many articles are included in Quartile 1-4. Based on the data, seven articles are available in SCImago, where two articles are required in Quartile 1 (3,2%), five articles are required in Quartile 4 (7,9%), and fifty-six are not available in SCImago (88,9%). Below are table 3 and chart 1 of the number of articles published by the Scimago quartile.

Table 3. The distribution of the number of articles published by the Scimago quartile

No	Rank	Number of Articles	Percentage
1	Quartile 1	2	3,2 %
2	Quartile 4	5	7,9 %
3	Not Detected at SCImago	56	88,9 %
Total		63	100 %

Chart 1. The distribution of the number of articles published by the Scimago quartile



Article Distribution of English Teaching Method in Covid-19 Pandemic: Based on Country of Publisher

The sixty-three articles which discuss English Teaching Method in Covid-19 Pandemics are published from various countries. Eleven countries have published sixty-three articles in this study. The United States is a country that contributes to the most significant number of articles. The United States has published forty-four articles of sixty-three articles. Then, Indonesia is the second country that bestows the most significant number of articles with seven articles. Germany, Turkey, the United Kingdom, and Switzerland are countries that each affords two articles.

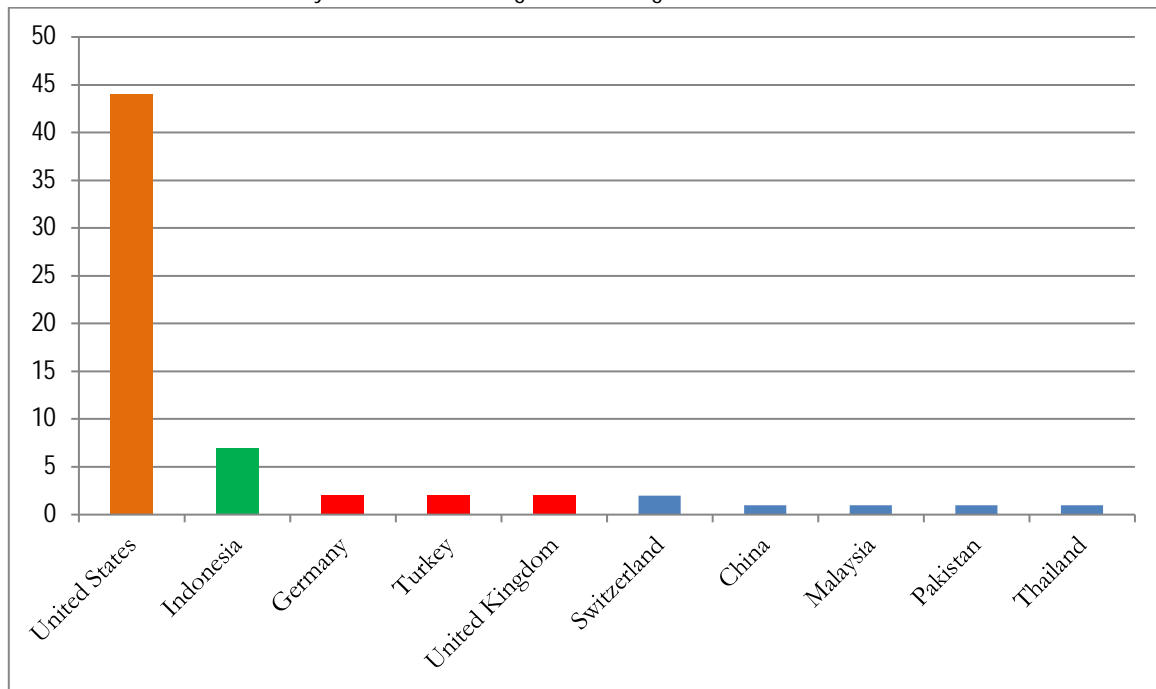
Meanwhile, China, Malaysia, Pakistan, and Thailand are countries that place the last position. Each of them assigns one article. The following are table 6 and chart 3 of the country that publish English Teaching Method in Covid-19 Pandemic:

Table 6. List of Countries that Publish English Teaching Method in Covid-19 Pandemic

No	Country of Publisher	Number of Articles	Percentage
1	United States	44	69,84 %
2	Indonesia	7	11,11 %
3	Germany	2	3,17 %
4	Turkey	2	3,17 %
5	United Kingdom	2	3,17 %
6	Switzerland	2	3,17 %

No	Country of Publisher	Number of Articles	Percentage
7	China	1	1,59 %
8	Malaysia	1	1,59 %
9	Pakistan	1	1,59 %
10	Thailand	1	1,59 %
	Total	63	100 %

Chart 3. The Chart of Country that Publishes English Teaching Method in Covid-19 Pandemic



Article Distribution of English Teaching Method in Covid-19 Pandemic: Based on Publisher

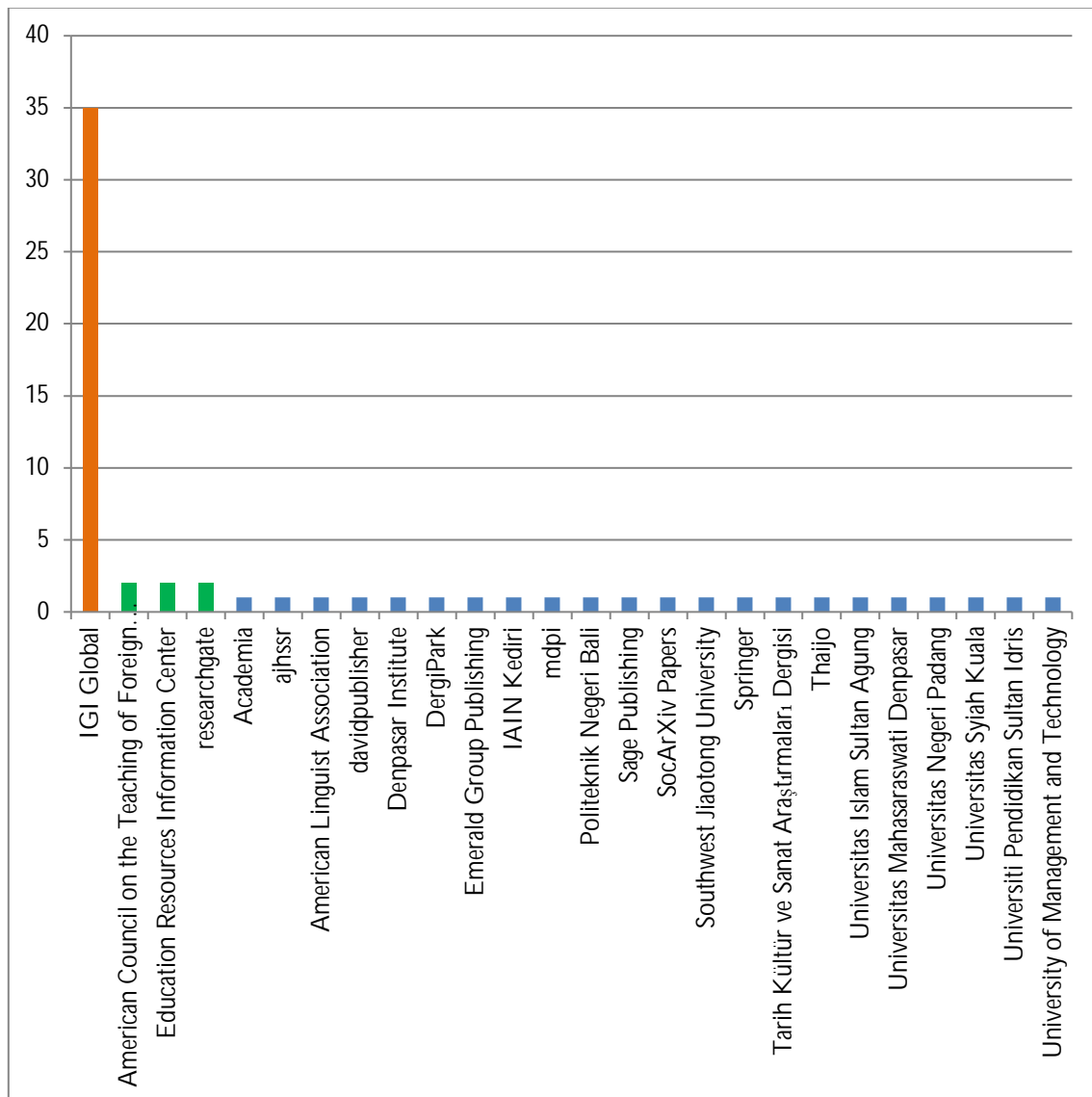
While the point of view of analyzing the number of publishers, twenty-six reputed publishers have published sixty-three articles discussed in this study. Among them, the publisher that dominates the most significant number is IGI Global. IGI Global has published thirty-five articles of sixty-three articles. It takes half of the number of articles discussed in this study, equivalent to 55.56%. It is then followed by the American Council on the Teaching of Foreign Languages as the publisher that is in second-largest number. These two articles were published by the publisher of the American Council on the Teaching of Foreign Languages, which is equivalent to 3.17%.

Furthermore, there are Education Resources Information Center Publisher and Researchgate publishers in third and fourth place with the same number of articles. Meanwhile, the remaining twenty-two publishers only publish one article in this discussion. The followings are table 5, list, and chart 2 of publishers.

Table 5. List of Publishers who have published articles of English Teaching Method in Covid-19 Pandemic

No	Publisher	Number of Articles	Percentage
1	IGI Global	35	55,56 %
2	American Council on the Teaching of Foreign Languages	2	3,17 %
3	Education Resources Information Center	2	3,17 %
4	Researchgate	2	3,17 %
5	Academia	1	1,59 %
6	Ajhssr	1	1,59 %
7	American Linguist Association	1	1,59 %
8	davidpublisher	1	1,59 %
9	Denpasar Institute	1	1,59 %
10	DergiPark	1	1,59 %
11	Emerald Group Publishing	1	1,59 %
12	IAIN Kediri	1	1,59 %
13	Mdpi	1	1,59 %
14	Politeknik Negeri Bali	1	1,59 %
15	Sage Publishing	1	1,59 %
16	SocArXiv Papers	1	1,59 %
17	Southwest Jiaotong University	1	1,59 %
18	Springer	1	1,59 %
19	Tarih Kültür ve Sanat Araştırmaları Dergisi	1	1,59 %
20	Thaijo	1	1,59 %
21	Universitas Islam Sultan Agung	1	1,59 %
22	Universitas Mahasaraswati Denpasar	1	1,59 %
23	Universitas Negeri Padang	1	1,59 %
24	Universitas Syiah Kuala	1	1,59 %
25	Universiti Pendidikan Sultan Idris	1	1,59 %
26	University of Management and Technology	1	1,59 %
	Total	63	100 %

Chart 2. The Chart of Publishers, which have published articles on English Teaching Method in Covid-19 Pandemic



The data above also gives the following researchers who will publish the article in the same field to choose which publisher to follow.

Article Distribution of English Teaching Method in Covid-19 Pandemic: Based on Journal Name

The journal names published sixty-three articles of English Teaching Method in Covid-19 Pandemic in 2019 to 2020 are forty-seven journals. The leading journal, which publishes five articles, is "Examining Content and Language Integrated Learning (CLIL) Theories and Practices." Then it is followed by "the International Journal of Virtual and Personal Learning Environments," which publishes four articles. Meanwhile, three journals are in the same position, and each publishes three articles. They are "Engaging Immigrant Families and Promoting Academic Success for English Language Learners; ICT-Based Assessment, Methods, and Programs in Tertiary Education; Using Literature to Teach English as a Second Language." Furthermore, the last ranks are "Cultivating Literacy in Diverse and Multilingual Classrooms; Foreign Language Annals; and Innovations and Technologies for Soft Skill Development and Learning," contributing two articles.

Table 7. List of Journal which Publishes articles of English Teaching Method in Covid-19 Pandemic

No	Journal Name	Number of Articles	Rank
1	Examining Content and Language Integrated Learning (CLIL) Theories and Practices	5	1
2	International Journal of Virtual and Personal Learning Environments	4	2
3	Engaging Immigrant Families and Promoting Academic Success for English Language Learners	3	3
4	ICT-Based Assessment, Methods, and Programs in Tertiary Education	3	3
5	Using Literature to Teach English as a Second Language	3	3
6	Cultivating Literacy in Diverse and Multilingual Classrooms	2	4
7	Foreign Language Annals	2	4
8	Innovations and Technologies for Soft Skill Development and Learning	2	4

The eight journals above are the journal that publishes more than two articles in this study where all of them are published by IGI Global as the publisher.

Productivity distribution of topic articles citation of English Teaching Method in Covid-19 Pandemic

Based on bibliometrics analysis of sixty-three articles in this study, each article's sundry number of citations shows their rank. The article was written by MDG Allo entitled "Is the online learning good in the midst of Covid-19 Pandemic? The case of EFL learners" is the leading citation. It has been cited thirty-two times. After that, the article of AEP Atmojo and A Nugroho entitled "EFL Classes Must Go Online! Teaching Activities and Challenges during COVID-19 Pandemic in Indonesia" is the second largest number of citations that have been cited twenty-three times. Below is the top ten articles cited with the most significant number of citation:

Table 8. 10 Articles Which Have Largest Citation that Identified by PoP Software

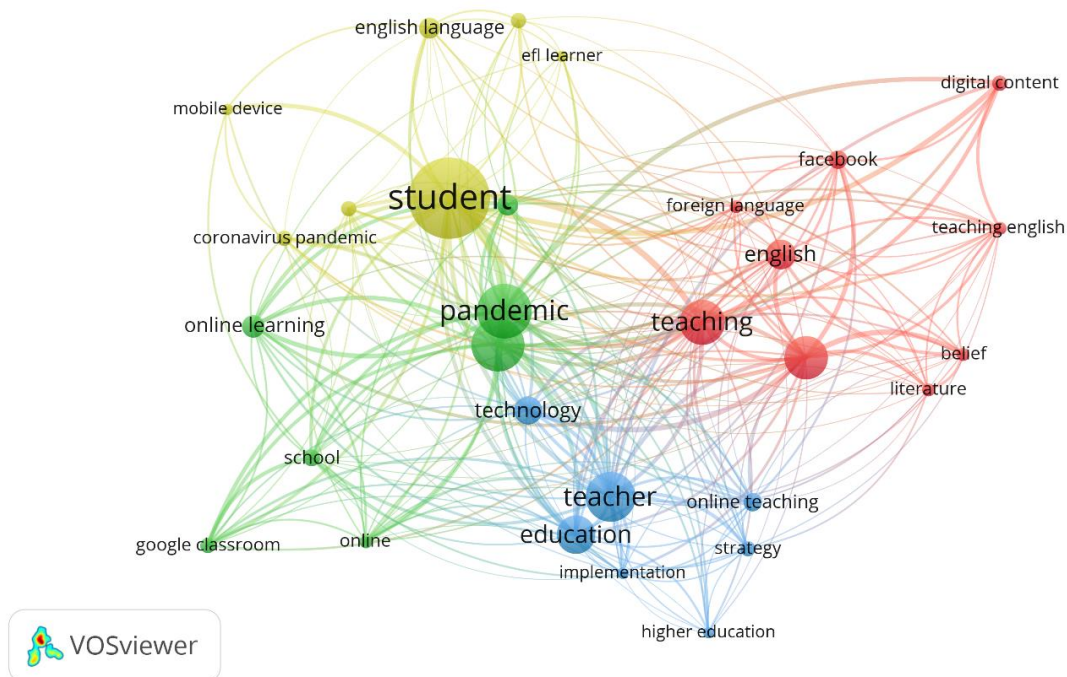
Authors	Title of Articles	Number of Cites	Cites per Year	Rank
MDG Allo	Is online learning good during the Covid-19 Pandemic? The case of EFL learners	32	32.00	1
AEP Atmojo, A Nugroho	EFL Classes Must Go Online! Teaching Activities and Challenges during COVID-19 Pandemic in Indonesia	23	23.00	2
I Kostka, HW Marshall	Flipped learning in TESOL: Past, present, and future	10	10.00	3
X Zhu, B Chen, RM Avadhanam, H Shui...	Reading and connecting: using social annotation in online classes	8	8.00	4
AH Fansury, R Januarty, S Ali Wira Rahman	Digital content for millennial generations: Teaching the English foreign language learner on COVID-19 pandemic	6	6.00	5
ASN Agung, MW Surtikanti, CA Quinones	Students' Perception of Online Learning during COVID-19 Pandemic: A Case Study on the English Students of STKIP Pamane Talino	6	6.00	5
FM Amin, H Sundari	EFL students' preferences on digital platforms during emergency remote teaching: Video Conference, LMS, or Messenger Application?	5	5.00	6
SK Shahzad, J Hussain, N Sadaf, S Sarwat...	Impact of Virtual Teaching on ESL Learners' Attitudes under COVID-19 Circumstances at Post Graduate Level in Pakistan.	4	4.00	7

Authors	Title of Articles	Number of Cites	Cites per Year	Rank
AA Yassin, NA Razak, NRM Maasum	Investigating the Need for Computer-Assisted Cooperative Learning to Improve Reading Skills Among Yemeni University EFL Students: A Needs Analysis Study	4	4.00	7
DAL Tan, BC Lee, M Ganapathy...	Language Learning in the 21st Century: Malaysian ESL Students' Perceptions of Kahoot!	4	4.00	7

Mapping and Future Research Potential of English Teaching Method in Covid-19 Pandemic

This study's mapping uses VOSViewer Software, which focuses on co-words or index-keywords that is co-occurrence written by the author. The mapping exposes the English Teaching Method's research trend in the Covid-19 pandemic from 2019 to 2020. Based on the analyzing result, the data shows thirty keywords through the co-occurrence of author keywords. The thirty keywords are divided into four clusters. The following is the figure of cluster mapping of English Teaching Method in Covid-19 Pandemic:

Figure 3. Cluster Mapping of English Teaching Method in Covid-19 Pandemic



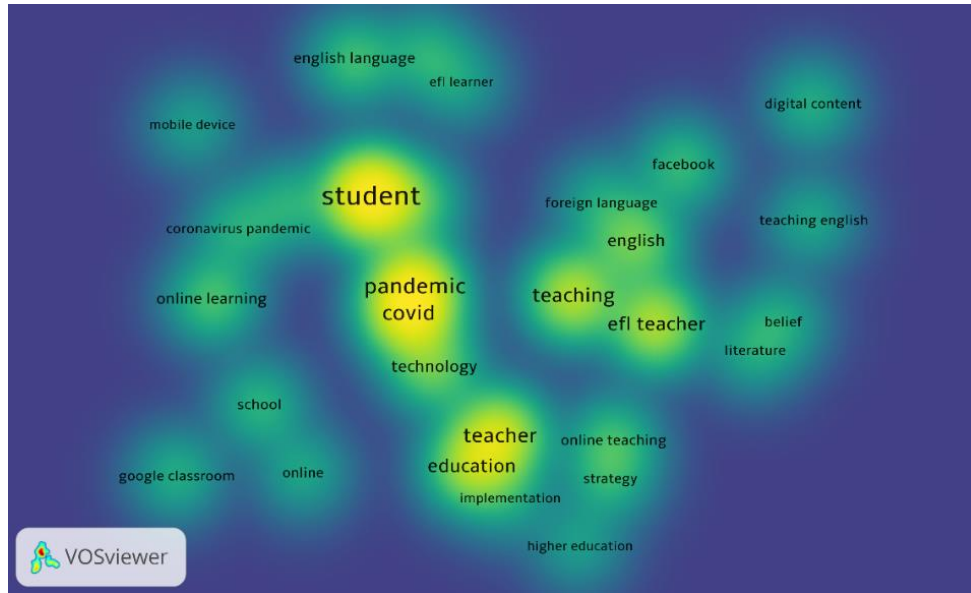
Based on cluster taxonomy, the figure shows that the research trend is in the keyword that appears the most of sixty-three articles such as *student, pandemic Covid, teacher, education, teaching, and EFL Teacher*. The research trend is dominated by red color or cluster 1. Therefore, there are four colors, which means four clusters. In cluster 1, nine items are obtained as keywords such as *Belief, Digital Content, EFL Teacher, English, Facebook, Foreign Language, Literature, Teaching, and Teaching English*. Then, in cluster 2 (green color), seven items are obtained as a keyword such as *Covid, Google Classroom, Online, Online Learning, Pandemic, Perception, and School*.

In cluster 3 (blue color), seven items are obtained as a keyword: *Education, Higher Education, Implementation, Online Teaching, Strategy, Teacher, and Technology*. Moreover, the last is in cluster 4 (yellow color), which is obtained seven items as a keyword, such as *Coronavirus Pandemic, EFL Learner, English Language, Language Learning, Mobile Device, Student, and Vocabulary*. The following is the articles with co-occurrence keywords and the figure of density visualization:

Table 9. Articles with Co-Occurrence Keywords

Cluster	Keywords	Articles
Cluster 1 (9 Items) Red	Belief, digital content, EFL Teacher, English, Facebook, Foreign Language, Literature, Teaching, Teaching English	(Altam, 2020; Hamzah Fansury et al., 2020; Inpeng & Nomnian, 2020; Khatoony & Nezhadmehr, 2020; Marshall & Kostka, 2020; Nugroho & Mutiaraningrum, 2020; Obdalova, 2020; Rakıcıoğlu-Söylemez et al., 2019)
Cluster 2 (7 Items) Green	Covid, Google Classroom, Online, Online Learning, Pandemic, Perception, School	(Agung & Surtikanti, 2020; Allo, 2020; Altam, 2020; Amin & Sundari, 2020; Atmojo & Nugroho, 2020; Bagus & Mantra, 2020; Fuentes Hernández et al., 2020; Hamzah Fansury et al., 2020; Inpeng & Nomnian, 2020; Jones, 2020; Karataş & Tuncer, 2020; Khatoony & Nezhadmehr, 2020; Knight, 2020; Kohnke & Moorhouse, 2020; Marshall & Kostka, 2020; Okmawati, 2020; Shahzad et al., 2020; Younesi, 2020; Zhu et al., 2020)(Amin & Sundari, 2020; Amponsah & van Wyk, 2020; Okmawati, 2020)
Cluster 3 (7 Items) Blue	Education, Higher Education, Implementation, Online Teaching, Strategy, teacher, technology	(Agung & Surtikanti, 2020; Amin & Sundari, 2020; Atmojo & Nugroho, 2020; Fuentes Hernández et al., 2020; Hasnine et al., 2020; Inpeng & Nomnian, 2020; Jones, 2020; Karataş & Tuncer, 2020; Khatoony & Nezhadmehr, 2020; Kohnke & Moorhouse, 2020; Marshall & Kostka, 2020; Ng et al., 2020; Nugroho & Mutiaraningrum, 2020; Okmawati, 2020; Pavón-Vázquez, 2020; Pinto-Llorente, 2020; ŞENER et al., 2020; Shahzad et al., 2020; Tan et al., 2019; Widiastuti et al., 2020; YANG Xiao & HUO Ran, 2020; Zhu et al., 2020)
Cluster 4 (7 Items) Yellow	Coronavirus pandemic, EFL Learner, English Language, Language Learning, Mobile Device, Student, Vocabulary	(Al-Khresheh & Al-Ruwaili, 2020; Allo, 2020; Altam, 2020; Amin & Sundari, 2020; Bagus & Mantra, 2020; Fuentes Hernández et al., 2020; Hasnine et al., 2020; Hijazi & AlNatour, 2020; Kaid & Touhami, 2020; Khatoony & Nezhadmehr, 2020; Murcia, 2002; Ng et al., 2020; Obdalova, 2020; Pham, 2019; Tan et al., 2019; Widiastuti et al., 2020)

Figure 4. Density visualization of English Teaching Method in Covid-19 Pandemic Mapping



The distinct color shows that many researchers from the data above have conducted the research area of it. It means that the research on the following topic has less potential to conduct. Besides, the opaque colors show that the researchers rarely use the research area. It shows that they can be developed by the next researcher, especially in clusters 3 and cluster 4.

In addition, this study analyzes the English teaching method available in the Google Scholar database, where the researches in the same area are contained. Future researchers may conduct other topics such as English teaching media in the Covid-19 Pandemic as shown in the VOSviewer before.

CONCLUSION

This study analyzes sixty-three articles of English Teaching Method in Covid-19 Pandemic by using four Softwares: Publish or Perish (PoP), Microsoft Excel, Mendeley, and VOSViewer. The data was found after filtering 989 articles obtained by searching through Publish or Perish (PoP) Software on the Google Scholar database using the keyword "English Teaching Method in Covid-19 Pandemic" in 2019-2020. This study analyzes sixty-three articles based on quartile in SCImago, Publication Year, Publisher, Country of Publisher, Journal name, and citations. Then the analysis continued by using VOSViewer to map the keywords that many researchers used. Hence, the research trend is in the keyword that appears the most of sixty-three articles such as *student*, *pandemic Covid*, *teacher*, *education*, *teaching*, and *EFL Teacher*. Besides, it gives the next researcher the information to conduct another English Teaching Media in the Covid-19 pandemic. This study has two weaknesses. The first is that personal touch cannot be avoided, which can be an error of analysis. The second is limited keywords available in the Google scholar database as the primary source of this study. The following study can use another database to get more quality data, such as a database of Scopus, web of science, PubMed, Microsoft Academic, Crossref, etc.

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