



Bibliometric Analysis of Suggestopedia in Learning

Wahyu Nuning Budiarti (Universitas Nahdlatul Ulama Al Ghazali Cilacap, Indonesia)
Aris Naeni D (Universitas Nahdlatul Ulama Al Ghazali Cilacap, Indonesia)
Endang Rifani (Universitas Nahdlatul Ulama Al Ghazali Cilacap, Indonesia)
Mawan Akhir Riwanto (Universitas Nahdlatul Ulama Al Ghazali Cilacap, Indonesia)
Yusuf Hasan (Universitas Nahdlatul Ulama Al Ghazali Cilacap, Indonesia)
Shafa Salsabila (Universitas Nahdlatul Ulama Al Ghazali Cilacap, Indonesia)

Correspondence Author Email: wahyu.nuning.b@unugha.ac.id

Keywords

*Suggestopedia,
Bibliometric
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Abstract

This bibliometric review examines the use of suggestopedia in the context of learning. This study encompasses papers from 1993 to 2023, with the objective of identifying emerging trends and examining novel research that will be highly valuable for future investigations. This study demonstrates substantial expansion in research on suggestopedia in the context of language acquisition. Overlay Visualization Result: The association between suggestopedia research is deemed novel and significant, as demonstrated by the yellow bar. Recent study indicates that suggestopedia is more focused on the precise use of the suggestopedia method in the context of teaching or learning.

Introduction

Suggestopedia is an educational approach that is based on the principles of suggestion, derived from the field of suggestology. Suggestology is a psychotherapeutic system developed by Georgi Lozanov in Bulgaria. It utilizes strategies of physical and mental relaxation to facilitate therapy (Bancroft, 1995a, 1995b; Lozanov, 2004; Воронцова & Валеева, 2020). Lozanov posited that employing relaxation and concentration techniques would enable students to tap into their subconscious reservoirs and absorb and understand a larger quantity of vocabulary and more robust linguistic structures than they initially considered achievable. The references cited are Caskey and Texas (1976) and Hasmi (2018).

Suggestopedia is the application of suggestion in the field of education, particularly in language instruction. The process (1) is grounded in the manner in which children acquire their native language (Cook, 2001; Mannheim, 2022; Persici et al., 2022; Pesková, 2021), wherein they first develop listening comprehension abilities before learning speaking, reading, and writing skills. (2) Both approaches agree that acquiring a second language should occur in a natural manner, focusing on the ability to communicate effectively and use authentic speech. (3) They possess a comprehensive understanding of the language on a global scale, with a particular focus on emphasizing attention to detail throughout the later stages of the learning process. (4) They prioritize the utilization of the right hemisphere for implicit learning.

Suggestopedia is an inventive and progressive instructional approach that stems from a novel educational perspective. According to contemporary studies on cognitive function and memory, this strategy arranges information in a manner that facilitates easy retrieval and assimilation into the learner's existing knowledge.(MIHĂESCU & from Pitești, 2008; Nematova, 2019; Исакова, 2014).

To cultivate a comfortable classroom climate, one can employ many strategies such as playing soothing music during lessons, promoting active involvement among students, displaying visually appealing posters to emphasize important information, and fostering a consistently positive emotional state among students. Feelings or emotions are intrinsic aspects of both individual existence and culture. An individual's physical appearance and facial expression are frequently influenced by the standards and expectations of the marginalized group they belong to. The utilization of language not only reveals many facets of an individual but also influences potential opportunities that lie ahead (Ivanova & Dimova-Severinova, 2021; Jane Bancroft, 1999; Kurniawan, 2019).

This approach has the potential to inspire students (Prabawati, 2022) by creating the perception that learning would take place in a warm and secure setting. This approach not only focuses on the instruction of language (Ahsan et al., 2021; Chiu & Ho, 2007; Clancy, 2004; Dalpé, 2002; Farrell, 2009; Johnson, 1991; Khasanova, 2020; Mocanu, 2012; Rosokhata et al., 2021; M. Tsay & Shu, 2011; M. Y. Tsay, 2008), but also on the facilitation of language classes (Bakkehaug, 2017; Gempeso & Mendez, 2021; Hagiwara, 2020; Kabilan, 2000) through the instructor's guidance and the learning environment. It utilizes psychological, pedagogical, and artistic methods to accomplish its objectives. The Suggestopedia Method, despite being a contemporary language teaching approach, relies on optimizing the learning potential of the human brain. The Suggestopedia approach is utilized in basic foreign language training, specifically for Turkish and Arabic, to facilitate language acquisition and expand vocabulary.(Guclu, 2015; Prihartini et al., 2019; Suntasi, 2023).

Methods

This research method uses bibliometric analysis with the Pop Vos Viewer application. Understanding the exact parameters calculated by bibliometrics will help their use effectively in evaluating researchers and journals, can reduce the possibility of misuse, and allow these parameters to serve as objective metrics of academic productivity.(Chai & Xiao, 2012; Choudhri et al., 2015; Donohue, 1973; Glanzel, 2003; Haddow, 2013; Patra et al., 2006).

Bibliometric research is closely related to communication aspects, writing rules such as citations, journal articles and content. It applies quantitative methods to a body of literature to arrive at an understanding of the communication patterns, trends and also networks found or occurring in that literature.(Glanzel, 2003; Haddow, 2013; Patra et al., 2006). Create bibliometric network visualizations. First, the most commonly studied types of bibliometric networks (Eck & Waltman, 2014; Waltman et al., 2010).

In order to get a thorough and complete set of data for analysis, we performed a comprehensive search of academic literature using a specialized database called Google Scholar. The search

was limited to scholarly articles, conference papers, books, and patents that were published within the timeframe of 2003 to 2023. Selecting this specific time frame enabled us to document the progression of research in this particular topic across the past decade. The search query was specifically formulated to focus on articles and publications pertaining to the application of Suggestopedia in the field of education. The keyword combinations and their variations that we utilized were "Suggestopedia," "Language learning," "Publish or Perish (PoP) application help," "Mendeley," and "Vos Viewer." By employing an extensive array of keywords, we achieved the comprehensive retrieval of a diverse selection of pertinent material.

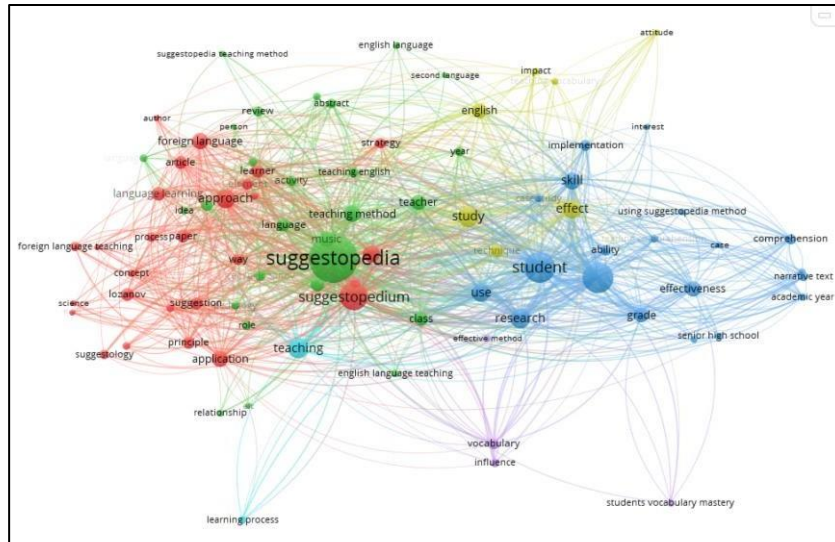
Bibliometric analysis is a rigorous approach to quantitatively and qualitatively assess publications, authors, institutions, and research patterns within a specific discipline. This analysis enables us to discern patterns, correlations, and motifs that arise in the gathered dataset.

Results and Discussion

The search query was specifically formulated to target articles and publications that explore the integration of Suggestopedia with language acquisition. By employing the keyword combinations and variations: utilizing the Publish or Perish (PoP) and Mendeley programs. By employing an extensive array of keywords, we were able to encompass a diverse selection of pertinent material.

Table 1. Matrix Data Penelitian

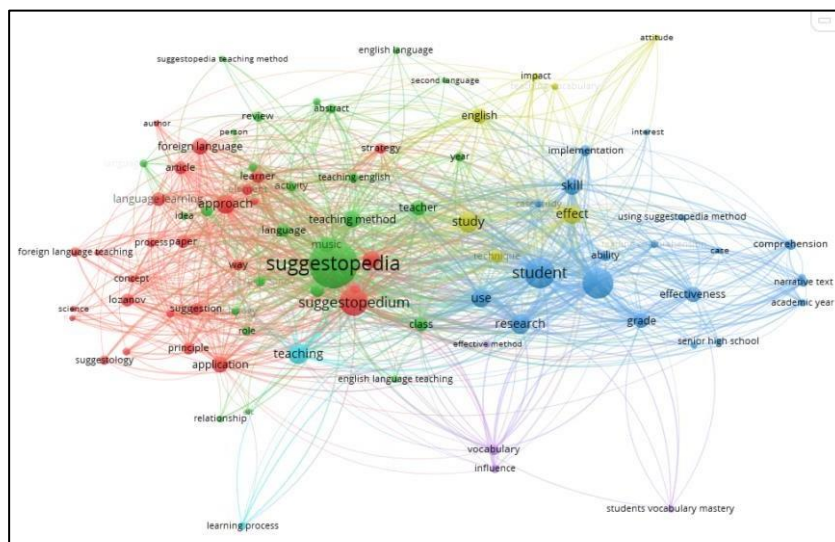
Metrics Data	Information
Publication years	1993-2023
Citation years	30(1993-2023
Papers	470
Citations	3642
Cites/year	121.40
Cites/paper	7.75
Cites/author	3107.42
Papers/author	394.22
Authors/paper	1.43
h-index	24
g-index	55
hI,norm	21
hI,annual	0.70
hA-index	10



Picture 1. Mapping Results using Vos Viewer

The results of the bibliometric analysis are focused on data mapping and suggestopedia in language learning. The findings were obtained using data collection and analysis methods including using the VOS viewer visualization.

Network Visualization is a suitable relationship in a network, no items are included in the same cluster, if several clusters have a direct relationship then the line color will be the same, but if the line color and location are quite far apart then this is not directly related and can become a gap in research regarding suggestopedia in learning. Analysis in the image above shows that there are 87 items with cluster 6 having 1452 links and a total link strength of up to 4258. Based on this, a gap in the mapping results between suggestopedia and language learning can be seen in the picture below.

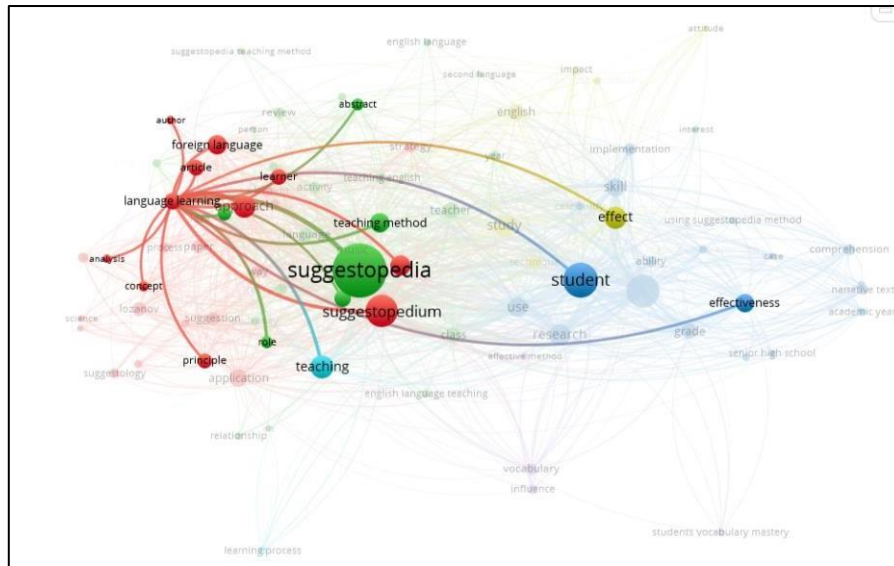


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Picture 2. The Gap between Suggestopedia and Language Learning

In language learning, quite a lot has a fairly close relationship with things related to methods in language learning and there is a direct relationship with suggestopedia and suggestopedium, but if you look at the picture below, the latest research is more about the use of the suggestopedia method which is related to several types of language learning.

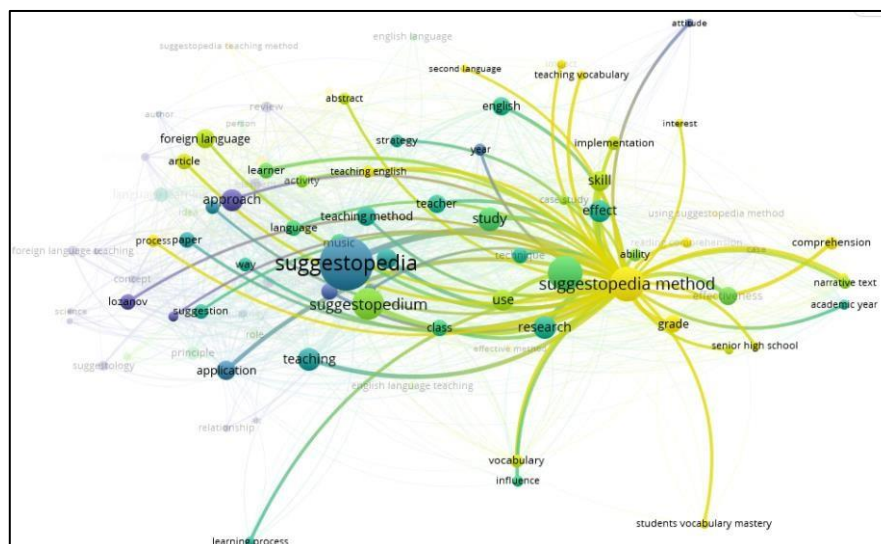
Table 2. Keyword Analysis

Most Occurrences		Fewer occurrences	
Occurrences	Term	Occurrences	Term
120	Suggestology	22	Skill
118	foreign language teaching	21	Learning
101	narrative text	21	teaching method
67	teaching english	19	Use
59	georgi lozanov	16	Effect
53	implementation	16	Approach
46	element	15	Research
43	theory	14	Study
42	suggestion	11	Teaching
41	paper	11	Suggestopedium
38	technique	11	Student
37	article	10	suggestopedia method
35	language learning	10	suggestopedia

This section discusses keywords with the most occurrences and keywords with the fewest occurrences in citation analysis. Understanding the importance of these keywords and their relevance in integration provides insight into key research areas and potential directions for further investigation.

The most related research regarding suggestopedia from 1993-2023 is about suggestology, but in the picture below the type of research shifts to the suggestopedia method or to suggestopedia, the results of these occurrences show keywords in the latest research regarding suggestopedia. The term "suggestology" emerged as the keyword with the highest number of occurrences across all clusters. This reflects the important role of suggestion which cannot be separated from suggestopedia, especially in research on suggestion and psychometrics in the learning process. In accordance with several statements, suggestology has a very close relationship with suggestopedia. (Bayuk & Bayuk, 1980; Hagan, 2002; Moon, 1986; Tarnopolsky, 2016)

Researchers are interested in exploring how these suggestions spread in learning. (Altun, 2023; Bakkehaug, 2017; Bancroft, 1982; Eggers, 1984; Heah, 1984; Mustapha, 2018; Nematova, 2019; Rustipa, 2011; Syarifuddin et al., 2022)The second keyword is foreign language teaching, this word that appears frequently indicates that Suggestopedia is related quite a lot to articles about foreign language learning.



Picture 3. Mapping Result Form Overlay Visualization

Result from Overlay Visualization, It is considered new and important in terms of the relationship between suggestopedia research, indicated by the yellow bar. The latest research shows that suggestopedia is more specific in the use of the suggestopedia method in relation to some teaching/ learning (Bakhromova & Ergashev, 2022a, 2022b; Kharismawati, 2014; Kharismawati & Susanto, 2014), comprehension (Castillo, 2023; Lisnawati & Suyadi, 2020a, 2020b; Matharoa, 2019; SARI, 2023), and some in teaching narrative text.

Conclusion

Suggestology is closely related to suggestopedia, in that research conducted from 1993 to 2023 was dominated by research on suggestology followed by foreign language teaching and learning regarding narrative texts then followed by language learning. From this it can be concluded that suggestopedia in language learning has become a study that has been carried out by many researchers until 2023.

Recommendations

The most recent research that has been carried out is regarding the suggestopedia method which has been applied in language learning regarding narrative text and several studies in foreign language learning and also regarding vocabulary learning. If you carry out research in these areas you will be able to dig deeper into suggestopedia in language learning.

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Authors Information

Wahyu Nuning Budiarti

Universitas Nahdlatul Ulama Al Ghazali
Cilacap
Jl. Kemerdekaan barat no 17 Kesugihan
Cilacap, Indonesia
Contact :
E-mail Address:
wahyu.nuning.b@unugha.id

She is a lecturer in the Elementary School Teacher Education study program with a concentration in Indonesian in Elementary Schools.

Endang Rifani

Universitas Nahdlatul Ulama Al Ghazali
Cilacap
Jl. Kemerdekaan Barat no.17, Kesugihan
Cilacap
Contact :
E-mail Address: endangrifani0@gmail.com

The third author is a lecture in Department Guidance and Counseling, concentration in Individual Counseling

Yusuf Hasan B

Universitas Nahdlatul Ulama Al Ghazali
Cilacap
Jl. Kemerdekaan Barat no.17, Kesugihan
Cilacap
Contact :
E-mail Address:

The fifth author is a lecture in Department Guidance and Counseling, concentration in Individual Counseling

Aris Naeni Dwiyantri

Universitas Nahdlatul Ulama Al Ghazali
Cilacap
Jl. Kemerdekaan barat no 17 Kesugihan
Cilacap
Contact :
E-mail Address: arisnaeni@unugha.id

The second author is a lecturer in the Elementary School Teacher Education study program with a concentration in science education in elementary schools.

Mawan Akhir Riwanto

Universitas Nahdlatul Ulama Al Ghazali
Cilacap
Jl. Kemerdekaan barat no 17 Kesugihan
Cilacap, Indonesia
Contact :
E-mail Address: mawan.pgsd@unugha.id

He is a lecturer in the Elementary School Teacher Education study program with a concentration in science education in elementary schools.

Shafa Salsabila Putri

Universitas Nahdlatul Ulama Al Ghazali
Cilacap
Jl. Kemerdekaan barat no 17 Kesugihan
Cilacap
Contact :
E-mail Address:
shafasalsa1708@gmail.com

The sixth author is 5th semester student of the Elementary School Teacher Education study program