

Research Focus And Development Trend Of Picture Book Education For Children

-- Knowledge Mapping Analysis Based On Related Literature From 2006 To 2019

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Abstract

Picture book education is a kind of pluralistic education, and its healthy development is conducive to promoting the comprehensive and harmonious development of children's morality, intelligence, body, beauty and labor. A systematic review of the research hotspots and development trends of Picture Book Education in recent ten years will contribute to a deeper understanding of the research value of Picture Book Education in the chemical industry, and provide effective reference for future research. Based on the idea and method of bibliometrics and knowledge mapping, this paper uses the related data analysis software bicomb2.0, spss22.0 and CiteSpace 5.5 to analyze 617 related literatures retrieved from CNKI from 2006 to 2019 in terms of the number of published papers, source journals, research subjects and key words, and draws the related mapping of preschool picture book education. The results show that the number of literature on the theme of picture book education for children is gradually rising in waves, and the number of literature broke 100 for the first time in 2017, but the overall quality is low; The source journals mainly focus on the field of preschool education, and the other fields have low continuous concern about them; The main body of the study is mainly concentrated in kindergarten, and other institutions have a little less enthusiasm for the study of picture books education; Key words mainly focus on the universal value of language reading in picture book education, and lack of the research on the derivative value of picture book education. In order to further promote the healthy and high-quality development of picture book education research, we should ensure that the quality and quantity of picture book education research are improved at the same time, and constantly strengthen the research in weak areas and attach importance to the construction of picture book education research team.

Keywords

Picture Book Education for children; Hot spots and development trends; Analysis of knowledge map.

1. Introduction

Picture book is an important carrier that integrates words and pictures to promote children's multi-dimensional development of language, aesthetics, reading, etc. [1] its impact on children's all-round development can not be ignored. In recent years, how to use picture book education to promote children's development has been paid more and more attention by kindergartens. In particular, a lecture with the theme of "implementing the 13th five year plan of language and writing and doing a good job of language and writing work according to law" was held in Xuzhou in 2017. The lecture involved the cultivation of children's reading ability and the teaching of picture book reading in kindergartens, and put forward suggestions and new ideas on how to

further strengthen the language and writing work in kindergartens, once again pushing picture books in front of the public, And then attracted a large number of educational researchers to participate in the research of picture book education. The influence of picture book education on children's development and the educational mode of picture book education itself have gradually received different degrees of attention in the society. With the multi-dimensional characteristics of picture book education itself and its indispensability for children's development spreading in today's society, it is necessary to grasp its functions, research hotspots and development trends.

2. Sample Selection and Research Methods

2.1. Sample Selection

Generally speaking, academic papers published in journals are more accurate and sensitive than monographs and research reports [2] Therefore, this paper selects the journal papers related to "picture book education for children" collected in CNKI as the data source for quantitative analysis. The literature was collected on October 1, 2019. Firstly, the data samples are obtained by more accurate advanced retrieval method in CNKI, and the "title" is selected to determine the research field in the retrieval, with the time cycle from 2006 to 2019; Then, 618 literatures were retrieved by inputting "picture book" with "children" or "Picture Book Education" with "children"; Then input "picture book" with "function" or "picture book" with "function" in the key words, and a total of 94 literatures were retrieved. In order to further ensure the authority and credibility of the literature, the type of literature is defined as "Journal", and core journals, CSSCI and other types are selected in the source category. A total of 34 core journals are retrieved. Finally, according to the literature inclusion criteria and elimination requirements, the data were cleaned up, and the relevant conferences, newspapers and repetitive literatures that did not meet the research topic were screened out. [3] there were 617 valid literatures remaining, including 29 in the audit journal.

2.2. Research Methods and Tool Selection

Choosing scientific research methods and accurate research tools plays an important role in accurately analyzing the hot spots and development trend of picture book education for children. This study mainly uses the bibliometric analysis method, with the help of CiteSpace software to analyze the related literature of children's Picture Book Education retrieved from CNKI. CiteSpace is a visual analysis software based on CO citation analysis theory and meridian searching network algorithm, which can transform the data in the recognizable file and form the analyzable map, and then display the research hotspots and development trends of related research fields[4] In this study, CiteSpace version 5.5 is selected to complete the transformation of input and output through data and the transformation of data and project in new to get the final analysis data. Then, the running functions such as time node and threshold are selected and set, and then the relevant information in the generation interface is filtered and set, so as to draw an ideal map in line with the research direction. In order to more systematically and accurately analyze the hot spots and development direction of early childhood picture book education research, we also use the bibliometric co-occurrence analysis software bicomb2.0 and spss22.0. First, we use bicomb2.0 to analyze the key fields of related literature, such as keywords, time, author and author unit, and then import the results into spss22.0 for cluster analysis, and make the corresponding cluster analysis tree diagram, so as to analyze and interpret the research hotspots and development trends of preschool Picture Book Education in many aspects.

3. Sample Measurement Analysis and Result Statistics

3.1. Analysis of Time and Number of Papers

The distribution of time of research literature in a certain field can reflect the theoretical level and development speed of academic research in this field to some extent. [5] therefore, the research on the literature age distribution of "picture book education for children" and the number of documents published in each period of time is not only conducive to understanding the rise of picture book education research, but also the overall development context. Using BICOMB 2.0 co-occurrence analysis software, select "age" as the key field to extract, and set the frequency threshold of 1. The distribution of the number of papers published in the study of picture book education for children in 2006-2019 is obtained by statistical analysis. The results are shown in Figure 1.

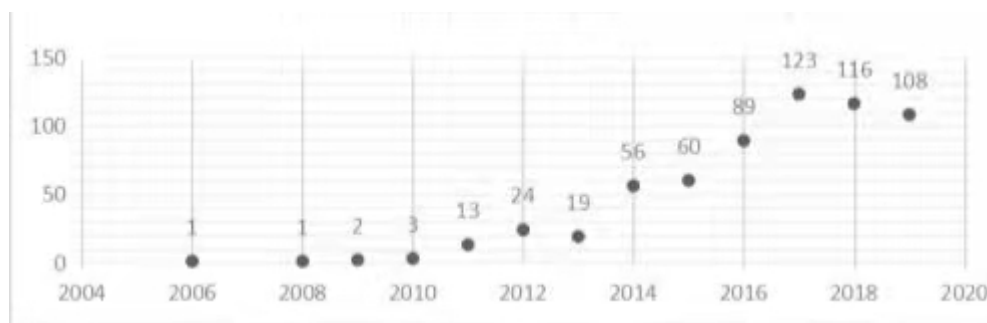


Figure 1. Time variation of the number of published papers of picture book education from 2006 to 2019

As can be seen from the figure, with the passage of time, the research literature on "picture book education for children" from 2006 to 2019 basically maintains a curve upward trend. From 2006 to 2012, the number of publications increased steadily and slowly, and then decreased in 2013; And then it continued to rise in the four years from 2013 to 2017, and in the 17 years, the number of publications reached 123, accounting for 20% of the total number of publications. The main reason is that the "training activity for key kindergarten directors of language and writing work in 2017" was successfully held in Xuzhou from June 4 to 10, 2017, and a lecture with the theme of "implementing the 13th five year plan of language and writing and doing a good job of language and writing work according to law" was held, which further emphasized the national language and writing laws, regulations and policies, This paper introduces the current situation of language and writing work in China and the key areas of work. The activities also involve the related training of children's reading ability and picture book reading teaching in kindergartens, and puts forward some suggestions and new ideas on how to further strengthen the language and writing work in kindergartens[6] In August of the same year, Shibe District of Qingdao deeply promoted the curriculum reform of basic education, carried out the corresponding activities of "improving reading literacy and deepening curriculum reform", and also developed the reading course, Picture Book Mathematics and other courses; In September, the national reading activities entered a period of accelerated development, and the corresponding policies of "public cultural security law" and "Regulations on the promotion of national reading" were issued. With the introduction of various reading policies and regulations and the development of reading activities in 2017, more and more researchers shift their research focus to reading. Social hot spots and related policies are often the driving force of a certain research field. Under the promotion of reading activities and related policies, children as a special group with great development potential in language reading, picture books are an important carrier of children's language development and

reading. Therefore, the relationship between children and picture books has important research value, and has been paid more and more attention by researchers.

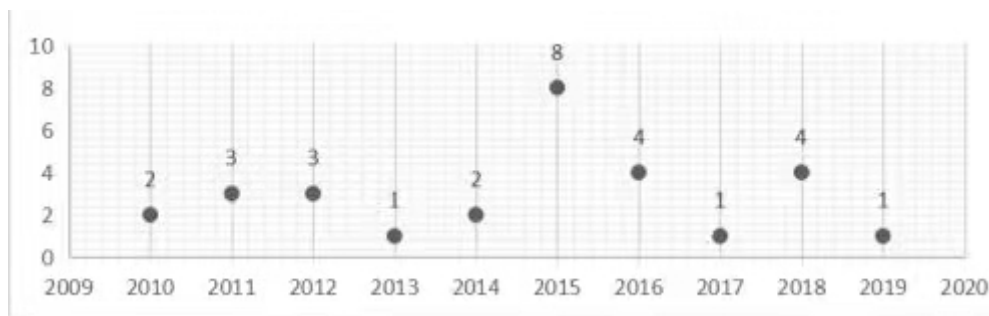


Figure 2. Changes in the number of published articles in Picture Book Education from 2006 to 2019

On the research topic of "children picture book" in terms of the number of papers published. According to figure 2, 2010 is a boundary, and no nuclear journals appeared in 2006-2010. Since 2010, the total number of audit journals is 29, of which, the number of audit journals in 2015 is the first, accounting for 27.6% of the total number. The main reason is that the national water education plan (2015-2020) formulated in 2015 (hereinafter referred to as "the plan") mentioned that children are in an important period of life outlook, values and world outlook formation, so that they should be educated with interesting picture books to form a good life habit, In the plan, picture book education has been promoted again in the development of children[7] In the fourth national preschool education publicity activity in 15 years, experts were organized to prepare ten groups of picture book stories with the theme of "love" for parents and children, emphasizing the importance of reading by parents and children. In the next four years, the State Council issued the opinions on strengthening the care and protection of rural left behind children, which also mentioned strengthening the education of left behind children through video and picture books; And the "guidelines for playing teaching aids and Book allocation in kindergartens" issued by the State Council of the CPC Central Committee on deepening the reform and standardized development of preschool education pointed out that excellent picture books should be selected in accordance with the characteristics of physical and mental development of children. The fluctuation of the volume of text distribution shows the continuous concern of the educational circles on the research theme of picture book education for children, and reflects the increasing of researchers in the field of picture book education and the rising research results, which provides an effective support for the comprehensive and harmonious development of children.

From the above analysis, it can be seen that the literature on the theme of children's picture book reading research is basically on the rise in recent years, and broke through 100 for the first time in 17 years, and the number of publications in the past three years has exceeded 100, which is a good trend for the field of children's picture book research, and proves that the research on picture book education has been paid attention to in different degrees recently. From the perspective of the number of papers published in core journals, there are few quality literatures in recent years, which reflects the lack of research level in this field. From the time node of the sudden increase in the number of articles published in various journals, it is closely related to the policies issued in that year and the national pre-school education publicity activities, which further shows that the national policies and social hot spots have played a positive role in promoting the research of children's picture book reading, and also attracted more researchers' attention.

3.2. Journal Analysis

The periodical statistics of children's picture book education research can show the current research level of children's picture book education, so that readers can accurately grasp the quality of literature and guide the correct reading direction[8] Based on bibomb2.0, there are 117 kinds of journals, including 18 core journals[9] According to the statistical results, the top ten journals are ordinary journals, and the top three in terms of publishing volume are the road to success, education and Teaching Forum and Literature Education (middle), accounting for more than 4%. The statistical results show that most of the papers on the subject of picture book education for children are published in general journals, among which the road to success, education and Teaching Forum and literature education are relatively more. In order to obtain more representative and authoritative literature, BICOMB 2.0 is used again and the same method is used for statistical analysis of core journals. The results are shown in Table 1. It can be seen from the figure that the top three core journals are preschool education research, China Publishing and education exploration, with 8, 4 and 2 articles respectively, while the other core journals have only one article. The top three core journals account for 1.3%, 0.6% and 0.3% of the total number of published articles respectively. From the data, we can see that the core literature on the theme of picture book education is very few, and its overall research quality needs to be improved; From the distribution of core journals, the research topics of picture book education for children are distributed in the field of preschool education, other education fields and social fields, which shows that the research of picture book education for children is not only concerned by the field of preschool education, but also by other fields, but the degree of continuous attention is not high, and most of the core journals have published only one article, It further shows that the research topic of picture book education for children is lack of sustained attention from the outside world, and the quality of literature needs to be improved. Generally speaking, the academic influence of picture book education research is expanding and covering a wide range, but in terms of its overall quality, its research authority and credibility need to be improved.

Table 1. Statistical table of core journals of picture book education from 2006 to 2019

Serial number	Key fields	Frequency of occurrence	Percentage %	Cumulative percentage%
1	Preschool education research preschool education research	8	27.59	27.59
2	Published in China	4	13.79	41.38
3	Educational exploration	2	6.90	48.28
4	Educational research in Shanghai	1	3.45	51.72
5	Publishing wide angle	1	3.45	55.17
6	Modern publishing	1	3.45	58.62
7	Library Science Research	1	3.45	62.07
8	Library Forum	1	3.45	65.52
9	Library work and research	1	3.45	68.97
10	Journal of Capital Normal University (SOCIAL SCIENCE EDITION)	1	3.45	72.41
11	JOURNAL OF NANJING ART INSTITUTE (Art and Design)	1	3.45	75.86
12	People's education	1	3.45	79.31
13	Technology and publishing	1	3.45	82.76
14	Education Research Monthly	1	3.45	86.21
15	Journal of Education	1	3.45	89.66
16	Journal of Hebei University (PHILOSOPHY AND SOCIAL SCIENCES)	1	3.45	93.10
17	E-education Research	1	3.45	96.55
18	Big stage	1	3.45	100.00

3.3. An analysis of the Author and the Unit of the Picture Book Paper

3.3.1. Number of Authors Per Paper

According to the number of authors listed in the journals, 537 of them were published in their own name, accounting for 87.1% of the total; Secondly, 60 papers were published by two people, accounting for 9.7% of the total; 16 papers and 4 papers were published by 3 and 4 people respectively, accounting for 2.6% and 0.6% of the total respectively. The data show that most of the papers published by the authors in their own name are published by themselves, while the proportion of the papers published by the authors in cooperation with the authors is small.

Table 2. Number of authors per paper

Number of people	frequency	percentage	Effective percentage
1	537	87.1	87.1
2	60	9.7	9.7
3	16	2.6	2.6
4	4	0.6	0.6
the sum	617	100.0	100.0

4. Conclusion Discussion

4.1. Existing Research Results and Analysis

4.1.1. The Research Results Show A Wave Trend, But the Quality Needs to Be Improved

From 2016 to 2019, the overall research on picture book education is on the rise, especially in the 17 years, the research volume has reached the peak, mainly because of the successful "2017 training activity for key kindergarten directors of language and writing work" held in Xuzhou from June 4 to 10, 2017; In August of the same year, Shibe District of Qingdao deeply promoted the curriculum reform of basic education, carried out the corresponding activities of "improving reading literacy and deepening curriculum reform", and also developed courses such as "Reading Course" and "Picture Book Mathematics", which made children's language development and picture book as a special language carrier get extensive attention, Scholars' enthusiasm for research also continues to rise, a large number of research results emerge as the times require, and the whole growth context presents a sudden turning point. However, from the perspective of core journals, the number of articles published is very small. Even in 2017, when the total number of articles published is 123, there is only one core journal on related topics, and 2015 is the year with the largest number of nuclear journals, namely 8. In general, the number of papers is gradually increasing, and there will be a high turning point under the stimulation of relevant documents. In other words, we should enhance the attention of picture books from various policy documents, and attract more researchers to pay attention to the related research of picture book education; Furthermore, from the perspective of nuclear journal, its overall quality is not high. Therefore, while encouraging researchers to do picture book education research, it is also necessary to improve the awareness of researchers to control the quality of papers.

4.1.2. The Research Field Is Expanding, But the Development Is Not Balanced

As a special language carrier, picture books have obvious effects on children's language and reading development. Therefore, most of the researches on picture book education are carried out in the field of language. With the multi-dimensional changes of society and children's development, more and more researchers try to excavate the complete value of picture book education from the fields of health, art, society and science, so as to realize children's all-round development. Although in recent years, the research on picture book education has shown a

decentralized development, but on the micro level, the lower concept of children's picture book education research is relatively less, such as the use of picture books to strengthen children's understanding of life and death or the grasp of numbers. In other words, compared with the research on the universal value of picture book education, the research on its derivative value is very weak, and the overall development is extremely unbalanced.

4.1.3. The Sources of Journals Are Widely Distributed, But There Are Few Core Journals

Based on the analysis of the overall distribution of journals, there are 117 kinds of journals involved in this field, among which the top ten are general journals, including the road to success, education and teaching forum, literature education (middle), etc; However, only 29 papers have been published in 18 high-level Chinese nuclear journals, such as research on preschool education, China publishing, education exploration and Shanghai Education Research. Although the distribution of published literature is relatively wide, the number of nuclear journals is relatively small, accounting for only 15.4% of the total number of journals.

4.1.4. The Core Author Effect Is Not Significant, And the Cooperation Level Is Not High

According to price's law, the research on picture book education has not formed a core author group in a strict sense. There are too many sudden researchers and too few tracking researchers, and the amount of relevant literature of the author is also very small. In addition, the trend of cooperative research in this field is not obvious. 87.1% of the total literatures are published in the name of individuals, 9.7% are published by two people, 2.6% are published by three people, and 0.6% are published by four people. The data show that the number of cooperative groups in this field is very small, which further shows that the relationship between researchers in this field is not close and the sense of cooperation is not strong, and the research on the differentiation between fields is obvious. This will restrict the multidimensional development of picture book education research in depth and breadth.

4.2. Problems That Should Be Paid Attention to in the Future of Picture Book Education Research

4.2.1. Pay Attention to the Improvement of Picture Book Education Research in Both Quantity and Quality

In 2017, the amount of literature on picture book education reached a high peak, because in 17 years, we carried out relevant lectures on the theme of "implementing the 13th five year plan of language and writing, and doing a good job in language and writing work according to law", involving related children's reading ability training and kindergarten picture book reading teaching, which raised the attention of front-line teachers and educational researchers. Strengthening the social and national attention to picture book education can promote the research on picture book education to a certain extent, and ensure that the amount of literature on picture book education research has an upward trend. At the same time, future researchers should pay attention to the targeted and innovative research of picture book education, avoid the duplication with previous research and weaken its academic value, and ensure the quality of the published literature.

4.2.2. Strengthen the Research on the Weak Areas of Picture Book Education to Ensure Its Balanced Development

Future researchers should pay attention to the multi-dimensional development of picture book education research, strengthen the discussion and Research on picture book education theory and children's development law, and focus on art, science, health and other weak fields. At the same time, we should also pay attention to the research of subordinate concepts in various fields, such as aesthetics, life, etc., complete the ontological value of picture book education, and enrich the research field of picture book education. Strengthen the research in weak areas,

make the research form a joint force in various fields, and promote the balanced development of picture book education research.

4.2.3. Pay Attention to the Scientific Research Team Construction of Picture Book Education

The research of picture book education involves many fields and levels, and the construction of a good scientific research team can not be ignored. We should actively absorb and cultivate new forces to expand this field, and at the same time accumulate high-level researchers to integrate the research force in this field, so as to ensure that the research in the field of picture book education continues to develop in a healthy and high-quality direction. And the research found that there is a significant positive correlation between the degree of cooperation between researchers and the academic influence of scientific research output. This means that strengthening the cooperation among researchers can enhance the academic influence of scientific research output [10]. Therefore, we should be aware of the relationship between the intensity of cooperation and academic influence while building a team. The high-quality production of a researcher has little impetus to the picture book education research, and the team cooperation is the key to the positive and healthy development of the field and the core element of the high-quality development of the field.

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