

# Research on Famous Teacher Studios in China in Recent Ten Years

## -- Review and Prospect

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### Abstract

By using bibliometric method and CiteSpace information visualization technology, this paper draws a realistic picture of the research results of China's famous teacher studios from 2011 to 2020: The main body of the research is universities, and the core author group has not yet been formed; Various research hotspots are gradually emerging, focusing on the operation mechanism; The research methods are mainly speculative, and the awareness of multiple methods is gradually highlighted. In the future, in order to better promote the research of famous teacher studio with Chinese characteristics, we should expand the research team and strengthen Multi-party cooperation on the research subject; In terms of research content, we should promote the research in key areas and broaden the research on marginal topics; In terms of research methods, we should deepen qualitative research and enhance the awareness of method application.

### Keywords

Research on Famous Teacher Studio; Citespace Information Visualization; Realistic Picture.

### 1. Introduction

The concept of teacher learning community, as a learning organization team based on cooperative learning, began in the 1990s. In 1997, the southwest education development center published a report on professional learning community, which was the first to advocate this concept. After more than 30 years of development, teacher learning community has moved from theoretical discussion to social practice, and has become the trend of educational reform in the world. In 2001, Baoshan District of Shanghai set up the first batch of 18 famous teacher studios. Since then, more and more attention has been paid to the establishment of famous teacher studios, especially since 2011, in order to achieve the strategic goal of "building a high-quality professional and innovative teacher team" in 2035. Practice is always new and theory is always new. At present, the practice of professional teacher team and famous teacher studio are in full swing. However, the effectiveness of "building professional teachers team" needs to be further evaluated, and the theoretical thinking on the construction of famous teacher studio needs to be further deepened. In view of this, with the help of CiteSpace visualization analysis tool, this paper combs the existing research results in China in recent ten years, and looks forward to the development trend of follow-up research.

## 2. Data Sources and Research Design

### 2.1. Data Sources

As the journals with high academic value in the field of Humanities and Social Sciences, core journals and CSSCI journals can fully represent the mainstream trend and research level in the field of Humanities and social sciences. Therefore, the core journals of Peking University and CSSCI in CNKI database are used as literature sources. In order to collect the research literature of famous teacher studio as much as possible, "famous teacher studio" is used as the qualifier of "subject" for advanced retrieval, and the publication time is set from 2011 to 2020. After manually eliminating the invalid papers such as meeting notice, 287 papers from Peking University core journals and CSSCI journals were selected.

### 2.2. Research Design

CiteSpace is a knowledge map analysis software developed by Professor Chen Chaomei of Drexel University using java language. Its technical principle is based on co-citation analysis theory and Pathfinder algorithm. At present, it has become the mainstream application tool of contribution research at home and abroad. With the built-in function of CiteSpace 5.7.R2 software, the rework format document imported from CNKI is transformed into CiteSpace 5.7.R2. In the parameter setting, the time span is from 2011 to 2020, and every year is a time slice. When the node type selects author, the threshold top N of each slice is set to 50, and the map pruning mode is pathfinder, pruning sliced networks and pruning the merged network; When the key word is selected as the node type, in order to achieve the best effect of the atlas, the time slice is set to 2 years, the threshold value of each slice (C, CC, CCV) is (2, 3, 20), (3, 3, 20), (4, 3, 20), and the minimal spanning tree is selected as the pruning mode of the atlas. The 287 literatures are analyzed respectively, and the knowledge atlas is drawn to form a visual analysis.

## 3. Analysis of the Main Body, Hot Spot and Method Characteristics of the Research on Famous Teacher Studio

In this paper, CiteSpace and other visual tools are used to systematically review the research results of middle school teacher studio from three dimensions. Specifically, three observation points, namely "research subject", "research hotspot" and "research method", are set. The key words co-occurrence map and core author co-occurrence map were drawn, and the hot spots and frontiers of literature research were deeply analyzed. According to the statistical analysis, the number of core journals and CSSCI journals related to the research of famous teacher studio fluctuates greatly. In the first period (2011-2015), the annual number of papers increased slowly, but in the interval (2015-2016), it increased rapidly, and reached the peak in 2016, with a peak of 48 papers; In the interval (2016-2017), there is a negative growth trend, and in the interval (2017-2020), the growth rate tends to be flat. The overall scale of the research is still small, which shows that there is a large space for the research of famous teacher studio to continue to deepen and expand.

### 3.1. Research Subject: Universities are the Main Position, and the Core Author Group has not Yet been Formed

According to the main publishing institutions (see Table 1), Changchun vocational and technical college, Liaoning Normal University and Northeast Normal University are the top three in the number of research papers published by famous teacher studios in China; The top 10 research institutions published 29 papers, accounting for about 10.1% of the total, which objectively reflects the phenomenon that the distribution of research institutions in China famous teacher Studios is relatively scattered. In addition, from the perspective of

organization type, colleges and universities are the main position to carry out the research on famous teacher studio, which also reflects the weak attention of other stakeholders in this field.

**Table 1.** Information of main publishing institutions of research on famous teacher studios in China (2011-2020)

Number of papers published	Issuing organization	Organization type	Territory
5	Changchun vocational and Technical College	colleges and universities	Jilin Province
4	Liaoning Normal University	colleges and universities	Liaoning Province
3	Northeast Normal University	colleges and universities	Jilin Province
3	Middle school teaching reference magazine	Magazine	Shaanxi Province
3	Fujian Normal University	colleges and universities	Fujian Province
3	Qingdao No.16 middle school, Shandong Province	middle school	Shandong Province
2	Shanghai University	colleges and universities	Shanghai
2	Guizhou Normal University	colleges and universities	Guizhou Province
2	Zhangye No.2 Middle School in Gansu Province	middle school	Gansu Province
2	Tongxiang No.1 middle school, Zhejiang Province	middle school	Zhejiang Province

**Table 2.** Distribution of core authors in the research field of famous teacher studios in China (2011-2020)

sort	Core author	Number of papers published	Affiliated units
1	Wang Aihua	3	Qingdao No.16 middle school, Shandong Province
2	Yan Yunjin	3	Liaoning Normal University
3	Zhu Ningbo	2	Liaoning Normal University
4	Wang Jinwei	2	Shanghai University
5	Chi Enyu	2	Changchun vocational and Technical College
6	Han Shuang	2	Northeast Normal University
7	Zhu Guangqing	2	Changzhou teacher training center, Jiangsu Province
8	Miao aiming	2	Tianxinghu middle school, Nantong City, Jiangsu Province
9	Shen Kunlin	2	Tongxiang No.1 middle school, Zhejiang Province
10	Zeng Yan	2	Shanghai Normal University

Core authors refer to the researchers who have made great contributions to academic research in the discipline field. Their agglomeration in the academic research space network forms the core author group, and the index to measure the core author is the number of papers published. It can be seen from table 2 that the maximum number of papers published

by a single author in the research field of famous teacher studio in China is 8. According to Price Law, it can be determined that the minimum number of papers published by core authors in this field is 2. Table 2 below shows that there are 10 core authors in this field, and the total number of published papers is 22, accounting for about 8% of the total number of literatures, which is far lower than 50% of what Price Law rules; According to CiteSpace, there are 5210 nodes, 91 connections, and the network density is 0.0041, which shows that although the authors of the famous teacher studio occasionally cooperate, they are mainly independent research, and the degree of collaborative research is low.

### **3.2. Research Hotspots: Various Research Hotspots Appear, Focusing on the Operation Mechanism**

In this paper, CiteSpace is used to analyze the key words of CNKI core journals and CSSCI source journals on the research of famous teacher studio, and 1 year per slice is used as the time slice condition to draw the keyword co-occurrence map of famous teacher studio. In the atlas, the frequency of keywords in the literature is reflected by the font size, and the links between them reflect the co-occurrence relationship. There are 487 co-occurrence links and 301 keyword nodes, and the co-occurrence network density is 0.0108. Among them, high-frequency keywords mainly include host, teacher studio, teacher professional development, teacher professional growth and so on. According to the statistics of the research topics of the relevant literature from 2011 to 2020, the research focuses on what is "famous teacher", why to set up "famous teacher studio", what is its purpose or function, what is achievements and existing problems, how to operate the mechanism, and how to build it in the future. The operation mechanism is just like the engine of the car, which plays the role of the engine. Therefore, whether from the perspective of what should be or what is, the operation mechanism has gradually become the focus of research, and even many researchers show the operation mode of the samples they investigated more clearly by drawing charts. At the same time, from the statistical table of the research subjects, we can see that the main body is concentrated in the characteristic primary and secondary school famous teacher studios in Jiangsu and Zhejiang, and other areas are scattered. Jiangsu and Zhejiang, as the forefront of education reform, also bear the arduous responsibility of scientific research. As a new way to promote the construction of teaching staff, it is urgent to explore the development path suitable for this region and then spread to the whole country.

### **3.3. Research Methods: Based on Speculative Research, the Awareness of Multiple Methods is Highlighted**

This research divides educational research methods into four types: speculative research, quantitative research, qualitative research and mixed research combined with the data analysis, it can be seen that the research of famous teacher studio in China is mainly speculative research, relying on theoretical thinking, and the literature using this method accounts for about 60.5% of the total effective literature. The content of literature mainly focuses on the exploration of famous teacher studio itself (including the rise background, value concept, operation mechanism, team building, etc.) Research on the relationship between famous teacher studio and related fields (including the relationship with vocational education, higher education, basic education, teacher learning community, teacher professional development, etc.). The results of the other three research methods are less, of which only one is pure quantitative research method; The literature using qualitative research methods accounted for 18.5% of the total effective literature, while the rest mainly used mixed research methods. Researchers carry out systematic and logical deduction, taking theory as the starting point. Or case study, the content of such literature is mainly concentrated in famous teacher studio named by famous teachers, and the number of literature is also scattered. But in the past five years, due to the improvement of objective

aspects such as the use of data and field survey tools, as well as the awakening of subjective aspects such as research awareness, as time goes on, researchers awareness of using multiple methods to carry out empirical research highlights.

#### **4. Summary of the Research on Famous Teacher Studio and its Future Prospects**

To sum up, Chinese scholars have made a multi-disciplinary perspective and multi-dimensional analysis of the famous teacher studio, and achieved fruitful research results, but on the whole, its theoretical research and practical exploration are still in the primary stage. As the concept of famous teacher studio has gradually become a common understanding in the field of basic education and higher education in China, the research on it has gradually changed from theoretical research to empirical research. In view of this, this paper looks forward to promoting this research in the future from three aspects of research subject, content and method.

##### **4.1. Research Subjects: Expand Research Team and Strengthen Multi-party Cooperation**

At present, the research of famous teacher studio has gradually attracted the attention of the academic circles, but there are still a few stakeholders whose attention is weak, and there is a lack of mutual cooperation between the concerned subjects. This can be seen from the analysis of the publishing organization and the core author group. In fact, the construction and research of famous teacher studio is closely related to each subject, which needs the active participation and contribution of each individual. In order to promote the connotative development of the research on famous teacher studio, we should pay attention to the establishment of a strong research team, which mainly includes the following aspects: First, promote the cooperation between regions with strong teachers and regions with weak teachers, share research results and explore research experience. Under the influence of integration, we should promote the exchange and mutual learning of famous teachers in primary, middle schools and college among different regions, to promote their professional development. Second, strengthen the cooperation between the advanced and backward regions. The eastern coastal areas have unique advantages in education, and the teaching and research activities led by famous teachers are numerous. In order to promote the national high-quality education, the research of famous teacher studio in the eastern, central and western regions is urgent to form a strong joint force and achieve complementary advantages. Third, strengthen the cooperation between research institutions and schools, such as promoting the exchanges and cooperation among middle schools, universities, academies of educational sciences, education bureaus and other research institutions, deepening the professional development and practical difficulties of front-line teachers, closely combining with teaching practice, and constantly improving the authenticity and reliability of research. By expanding the research team and strengthening the diversified cooperation, it is helpful to enrich the content and form of the research, and expand the breadth and depth of the research.

##### **4.2. Research Content: Promote the Research of Key Areas, Broaden the Research of Marginal Themes**

The construction of famous teacher studio is a systematic project, which involves the cooperation of many organizations, such as research institutions, universities, famous teacher leaders, young teachers and so on. The research of famous teacher studio also includes many fields, such as preschool education, basic education, vocational education, higher education and so on. In the future, the research on famous teacher studio should continue to promote

the key field of basic education, and effectively solve the problems existing in this field, such as how to play the leading role of famous teachers, how to cultivate young teachers, how to establish a more perfect operation mechanism, and how to promote the reform and development of basic education. At the same time, we should continue to pay attention to and enrich the research in other related fields. Therefore, we should also attach great importance to the reform of higher education and vocational education. Under the guidance of teacher community, we should jointly build a "Overpass" of famous teacher studio, promote the integration of famous teacher and teaching, and strive to build an orderly operation mechanism of famous teacher studio, especially a reasonable evaluation mechanism.

### 4.3. Research Methods: Deepen Qualitative Research and Enhance the Awareness of Method Application

The establishment of famous teacher studio is not only a theoretical topic, but also a complex practical topic. It is not only the need of the development of regional and famous teachers, but also the need of the development of the whole group of teachers and the field of education. Therefore, we need to enhance the awareness of the use of multiple methods, not only to enhance the depth of speculative research, but also to broaden the breadth of qualitative research and mixed research, not only limited to the research named after the famous teacher. At the same time, enhance the operability of the research of famous teacher studio. Specifically speaking, on the one hand, it is necessary to extract the experience and characteristic mode of the construction of famous teacher studio from the educational practice all over the country. There are differences in the construction between coastal areas, especially in Jiangsu and Zhejiang, and inland areas. Therefore, based on the principle of adjusting measures to local conditions, we should take root in the practice of various regions and explore their implementation results. The effectiveness of the implementation can be determined by establishing a number of observation points, such as the number of famous teachers and the quality of team development. On the other hand, we should seriously summarize and rationally promote the experience of the construction of famous teacher studio all over the country, and explore the optimization path, so as to provide a better practice mode for the construction of famous teacher studios in China.

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