

# *Analysis on the Influencing Factors of Discipline Construction and Postgraduate Education in Higher Education*

Yifan Li

*Nanjing Audit University, Nanjing, Jiangsu Province 211815, China*

**Keywords:** Higher Education; Discipline Construction; Graduate Education; Influencing Factors; CiteSpace

**Abstract:** Discipline construction and graduate education are one of the important ways to realize the high-quality development of higher education and high-quality personnel training. However, at present, discipline construction and graduate education in higher education do not develop together, and the influencing factors on discipline construction and graduate education have not been clarified. This paper by combining CiteSpace software, comprehensive analysis of the existing periodic research results, with "discipline construction in higher education and graduate education influencing factors analysis" as the theme, the subject construction and graduate education of post, keyword word frequency and clustering, and summarizes the research results, can effectively promote the construction of discipline and the coordinated development of graduate education.

## 1. Introduction

Building a world-class university and its disciplines is a major strategic deployment made by the CPC Central Committee and the State Council. Discipline construction is the leading force of the development of colleges and universities and the core force of university competition [1]. Discipline construction was first mentioned by Luan Chun Qingchun in 1983, who pointed out that it was necessary to treat science as a new discipline [2]. It provides a preliminary idea for the discipline construction in China. In 2001, Fang Wen No [3]. Put forward the concept of discipline system, and analyze the development process of the department of social psychology. Since then, all walks of life have launched a heated discussion on discipline construction, and discipline construction has become the most basic and cutting-edge issue in higher education, thereforeAttach importance to the construction of discipline education conforms to the law of the development of higher education [4-5].

There is a mutual promotion and synergistic development relationship between discipline construction and graduate education. Discipline construction is the foundation and guarantee of graduate education, and graduate education is the extension and expansion of discipline

construction [6]. The relationship between the subject construction and graduate education is inseparable. The quality of graduate education is an important index to measure the discipline construction [7]. It is also the important content and fundamental purpose of discipline construction. The relationship between discipline construction and graduate education has attracted wide attention from scholars. Liang Chuanjie [8]. It is pointed out that the construction and development of colleges and universities is the premise and foundation of carrying out graduate education. Graduate education is an important way to realize the function of discipline construction.

However, the existing research on discipline construction is relatively scattered, only focusing on a specific discipline, and the understanding of important issues such as what is a discipline and how to build a discipline is not perfect. In addition, in educational practice, discipline construction and graduate education do not develop in coordination, and a clear understanding of the discipline construction and the influencing factors of graduate education.

Therefore, through the study of discipline construction and the influencing factors of graduate education, help to understand the graduate education under the background of operation mechanism and law, explore the bottleneck and obstacle restricting the development of discipline construction and graduate education, promote the reform and innovation of higher education system, grasp the social demand and expectations of higher education, provide the society with more high-quality talent and intellectual support.

At present, the discipline construction and graduate education is in a key stage of development, in order to further analyze the influencing factors of higher education discipline construction and graduate education, this paper with Citespace software as a measurement tool, the related subject literature analysis and sorting, and post, keywords, comprehensive analysis of discipline construction in higher education and graduate education, for the coordinated development of both research strategies and new ideas.

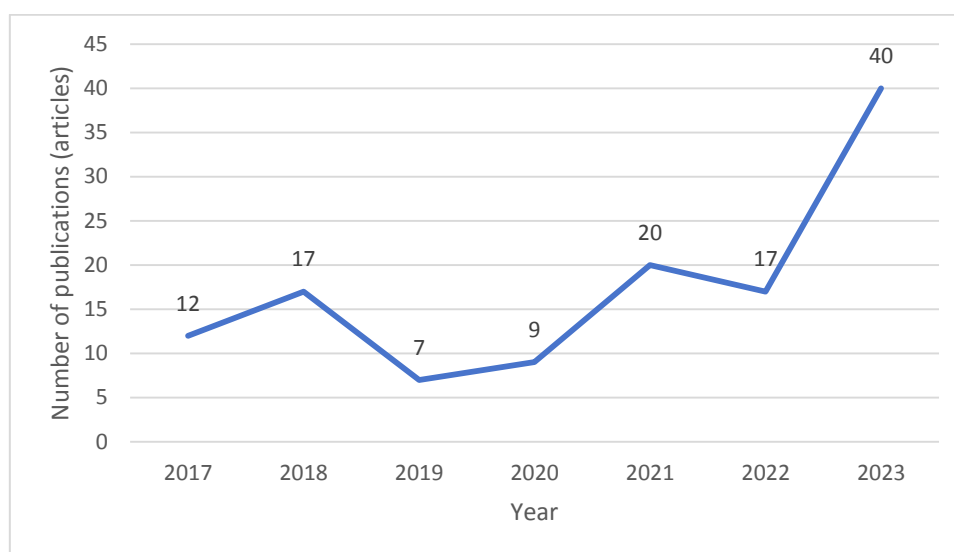
Set the Citespace software parameters in this article

Set the CiteSpace6.2.R6 software options as follows, Timespan: 1993 / 01-2023 / 12 (Years Per Slice =1 year); Selection Criteria (TOPN%: 10%; TOP: 50); Pruning: Pathfinder and Pruning sliced networks.

## **2. Discipline construction**

### **2.1 Statistics**

According to the statistical results of 122 documents (related to the theme of "discipline construction" from 2017 to 2023) related to the theme of China National Knowledge Network (CNKI), the annual chart of discipline construction research (Figure 1) is drawn. As can be seen from Figure 1, the number of publications increased from 2017 to 2018, slowly recovered from 2018 to 2021, and increased from 2021 to 2023. On the whole, the annual number of documents shows a rising trend of shock, which to some extent reflects the trend of discipline construction research.



*Figure 1. Annual statistics of the amount of discipline construction issued*

## 2.2 Key word frequency statistics

The nine most frequently occurring words in the research field of discipline construction, from 2017 to 2023, are shown in Table 1. It can be seen that the research field of discipline construction is mainly concentrated in local universities, double first-class, first-class disciplines, universities, talent training, Chinese characteristics, etc.

*Table 1. Keyword frequency of subject construction top9*

keyword	a particular year	frequency	centrad
discipline construction	2017	100	1.63
Local colleges and universities	2017	12	0.28
Double first-class	2017	11	0.15
First-class discipline	2017	9	0.22
colleges and universities	2017	9	0.1
personnel training	2017	7	0.06
Chinese characteristics	2019	5	0.14
new epoch	2020	4	0.03
institution of higher learning	2018	4	0.03

## 2.3 Keyword cluster analysis

In order to better grasp the hot topics of discipline construction research, we drew a keyword cluster map. In the keyword cluster map, the cluster with a smaller cluster serial number contains

the larger the number of keywords [8]. There are 7 clusters in the research field of discipline construction, among which the most popular clusters include effective evaluation, first-class disciplines, educational evaluation, academic journals, etc.

## 2.4 Study results

As can be seen from the key words such as "first-class disciplines", "talent training" and "academic journals", the construction of superior disciplines, the improvement of discipline teams and the training of high-quality talents are the hot issues of most researchers. The factors influencing discipline construction are closely related to the development of graduate education.

## 3. Graduate education

### 3.1 Statistics

A total of 126 documents related to the theme of "graduate education development" in CNKI (CNKI) were selected, and the trend map of domestic graduate education literature from 1984 to 2023 was drawn with the help of Excel software. As can be seen from Figure 2, the number of literature on the development of graduate education in China shows an upward trend. From 1984 to 2021, the number of publications increased rapidly from 2022 to 2023, and reached the peak in 2023.

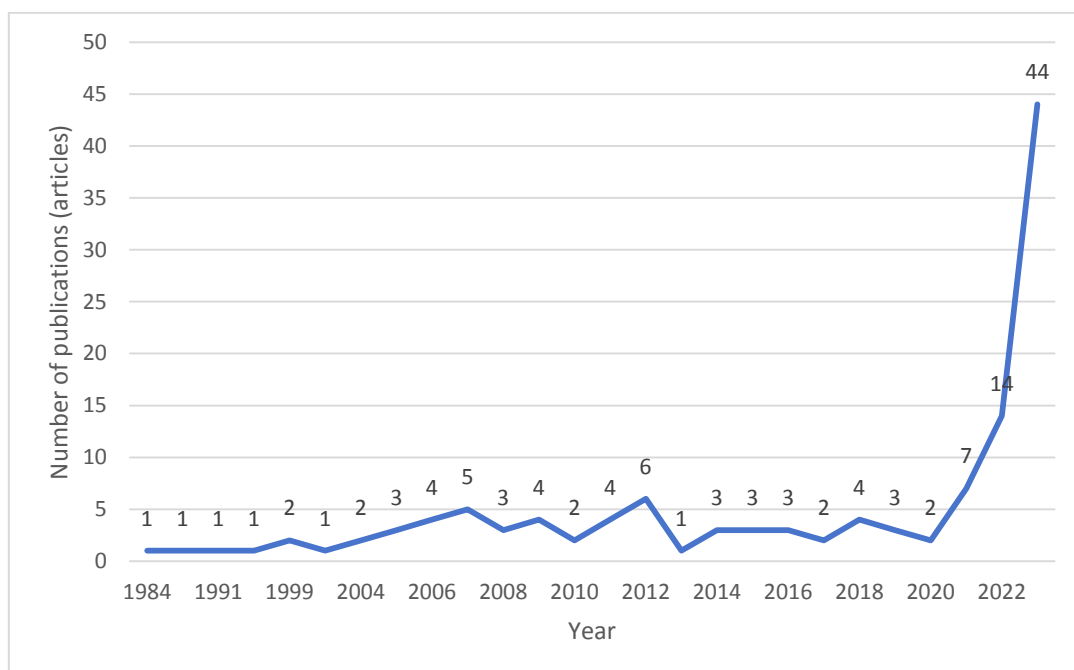


Figure 2. Annual statistics of the number of graduate education development

### 3.2 Key word frequency statistics

The 10 most frequent words among the highly correlated keywords in the field of graduate education development are shown in Table 2. As can be seen from Table 2, the main studies include "graduate students", "professional degree", "new era" and "development strategy".

Table 2. Key words of the development of graduate education

keyword	year	frequency	centrad
postgraduate	2004	27	0.65
Professional degree	2010	12	0.26
new epoch	2022	6	0.02
develop	1999	5	0.13
development strategy	2003	5	0.12
strengthen moral education and cultivate people	2022	4	0.1
academic degree	2007	3	0.05
development tactics	2015	3	0
development countermeasure	2006	2	0.07
Guide learning relationship	2021	2	0.07

### 3.3 Keyword cluster analysis

With the help of Citespace's cluster analysis function, the closely linked keywords are clustered into six categories: graduate student, professional degree, thinking, mentor, status quo and structural defects.

### 3.4 Study results

The keywords "graduate degree", "professional degree", "development strategy" and "moral education and cultivating people" show that the education and development planning of graduate students has always been a hot issue for researchers in this field. The keywords clustering "professional degree", "tutor team" and "structural defect" show that the influencing factors of graduate education are directly related to the discipline construction.

## 4. Conclusion

From the above studies, we have obtained the following conclusions: in recent years, discipline construction and graduate education have become more and more hot issues in the field of higher education research. In the field of higher education research, scholars have conducted extensive and in-depth research on subject construction and graduate education. Discipline construction covers discipline layout, talent training, resource allocation and other aspects. The influencing factors of graduate education include development strategy, education system, guidance relationship, etc., and the current graduate education has great structural defects. As an important part of higher education, discipline construction and graduate education influence and restrict each other.

Therefore, in higher education, we should further clarify the internal connection between discipline construction and graduate education, further optimize the structure of graduate education and improve education quality; find bottlenecks and obstacles restricting discipline construction and

postgraduate education, such as insufficient policy support, uneven distribution of internal resources, weak strength of tutor team, and formulate rectification measures; continuously optimize discipline structure, strengthen the construction of superior disciplines and support emerging and interdisciplinary development to form a characteristic discipline system to enhance the competitiveness and influence of the whole higher education system. Finally, the discipline construction and the graduate education should be carried out closely around the social needs. According to the social needs, we should adjust the discipline setting and the direction of graduate training, vigorously cultivate interdisciplinary talents, and realize the coordinated development of the two.

In short, discipline construction and graduate education are hot issues in the field of higher education research, and their development is of great significance for improving the quality of higher education and promoting talent training and scientific research. With the rapid development of society and the continuous progress of science and technology, discipline construction and graduate education are also facing new challenges and opportunities. Colleges and universities need to constantly adapt to the needs of The Times, strengthen the international integration, promote the integration of disciplines, and cultivate high-level talents with a global vision and innovative spirit.

## References

- [1] Ge Xianlong, Liang Yonghong.— *Take Chongqing Jiaotong University as an example [J]. Education and Teaching Forum, 2023, (11): 125-128.*
- [2] Luan is in the early spring. *On the discipline construction of Science [J]. Science and Science and Technology Management, 1981, (01): 10-12.*
- [3] fang wen. *The Evolution of Social Psychology: a disciplinary institutional perspective [J]. Social Sciences of China, 2001, (06): 126-136 + 207.*
- [4] Feng Xiangdong. *Disciplines, specialty construction and talent training [J]. Higher Education Research, 2002 (03): 67-71.*
- [5] Xie Debao, Wang Hongcai. *New thinking of discipline construction in higher education — From the logic of "epistemology" to "axiology" to [J].2021(2016-1):1-8.*
- [6] Li Yi Fan. *Visualization analysis of the relationship between discipline construction and graduate education [J]. Rainbow, 2023, (4): 170-173.*
- [7] Jia Zhaoshuai, Zhang Jie, Zhang Zhe. *Research on improving the strategy of graduate education quality under the new development concept [J]. Journal of Lanzhou Institute of Education, 2019,35 (12): 3.*
- [8] Liang Chuanjie. *Adjustment of graduate education subject catalogue: theoretical logic, historical logic and practical logic [J]. Academic Degree and Postgraduate Education, 2023 (2): 1-9)*