



ISSN: 3029-1844(Print) ISSN: 3029-1852(Online)

# Student-centeredness: Connotation, Logic, and Practical Path

### Xiangyi Ci\*, Xi Li

Jilin International Studies University, Changchun 130000, Jilin, China

**Copyright:** © 2025 Author(s). This is an open-access article distributed under the terms of the Creative Commons Attribution License (CC BY 4.0), permitting distribution and reproduction in any medium, provided the original work is cited.

#### Abstract:

The "student-centered" educational philosophy is a key direction in current educational reforms, emphasizing the central role of students in the learning process and advocating for the enhancement of educational quality by focusing on individual differences and fostering students' autonomous learning abilities. This paper systematically explores the connotations, logic, and practical pathways of the "student-centered" educational philosophy from both theoretical and practical perspectives. On the theoretical level, the paper clarifies the connotations and theoretical foundations of the "student-centered" approach. It then delves into the current implementation status of the "student-centered" philosophy both domestically and internationally. On the practical level, by examining reforms in teaching methods, evaluation systems, and other aspects, this paper provides practical pathways for the ongoing advancement of educational reform.

#### Keywords:

Student-centered Educational concept Teaching method

Online publication: March 27, 2025

#### 1. Introduction

### 1.1. Research background

In recent years, with the advancement of global education reform, educational philosophies have undergone profound changes. In particular, the "student-centered" approach has gradually become one of the mainstream directions in international education development. This philosophy, which originates from constructivist theory, emphasizes the student's subject position in the learning process. Globally, many countries and regions have

gradually promoted the implementation of this concept, and the "student-centered" teaching model is widely recognized as an effective way to improve the quality of education and promote personalized student development.

In China, with the acceleration of education modernization, the "student-centered" educational philosophy has gradually gained attention. Since the release of the "Education Planning Outline," the country has continuously pushed forward educational reform, especially proposing new requirements for teaching

<sup>\*</sup>Author to whom correspondence should be addressed.

methods and curriculum settings. In the "Overall Plan for Deepening Education Evaluation Reform in the New Era," the Ministry of Education clearly stated the need to deepen education and teaching reform, promote comprehensive student development, and put students at the center of teaching activities <sup>[1]</sup>. In this context, domestic education has gradually begun to focus on how to implement the "student-centered" philosophy into specific teaching practices, aiming to improve the quality of education and cultivate high-quality talents with an innovative spirit and practical abilities.

### 1.2. Research purposes

This article aims to deeply explore the connotation, logic, and practical application paths of the "student-centered" educational philosophy. Firstly, it systematically analyzes the core idea of the "student-centered" educational philosophy, explores its theoretical foundation, discusses its position and role in education, and specifically examines how focusing on individual student needs and promoting active learning can enhance teaching quality. Secondly, by integrating research results from both domestic and international contexts, the article discusses the experiences and challenges encountered during the implementation of this educational philosophy. Through comparative analysis, the study aims to reveal the universal applicability and individualized differences of the "student-centered" approach, providing a theoretical basis for its global implementation. Finally, considering China's current educational background and practical situation, the study focuses on exploring the specific application paths of the "student-centered" philosophy in Chinese educational practices, proposing feasible teaching reform strategies, and providing practical guidance for educators and decision-making references for education policymakers. By achieving these research objectives, this article aims to provide theoretical support and practical guidance for the reform and development of the educational field in China.

### 2. Research significance

### 2.1. Theoretical significance

This article further enriches and deepens the academic discussion on the "student-centered" philosophy.

By systematically analyzing the connotation of this educational philosophy, it not only provides a new perspective for the development of educational theory but also promotes applied research on constructivist learning theory. Additionally, by integrating domestic and international research results, this article explores the implementation effects of this philosophy in different cultural backgrounds, providing valuable theoretical evidence for the field of education. This contributes to advancing theoretical innovation in education reform and promoting deep integration in education concepts, methods, and policies in China.

### 2.2. Practical significance

Implementing the "student-centered" philosophy plays a crucial role in improving education quality and promoting personalized student development. This article provides specific teaching reform strategies for educators, helping teachers better understand and practice studentcentered teaching methods, thereby enhancing teaching effectiveness. Through in-depth research on the "studentcentered" philosophy, this article offers innovative ideas and practical paths for educators. As the Ministry of Education proposes to "strengthen student-centered evaluation" in the "Overall Plan for Deepening Education Evaluation Reform in the New Era," the research findings of this article can provide theoretical support for the improvement and implementation of education policies, promote the reform of China's education evaluation system, and further stimulate students' learning potential.

# 3. The connotation of student-centeredness

The formal formation of the "student-centered" educational philosophy can be traced back to the late 19th century to the early 20th century, particularly in the theories of American educator John Dewey, where it was initially systematically elaborated. Dewey broke away from the traditional paradigm of didacticism, proposing a new "Three Centers Theory," namely, "student-centered, experience-centered, and activity-centered." He emphasized that teachers should respect students' growth processes, recognizing that students are not only the objects of education but also its subjects. Under

this viewpoint, schools should fully leverage students' subjectivity, enhance their voice and autonomy in the classroom, and promote their active participation and self-development <sup>[2]</sup>. This ideology laid the theoretical foundation for the later "student-centered" educational philosophy.

In the 1940s, Carl Rogers further developed this concept, introducing a student-centered teaching theory that explicitly shifted the focus of instruction from teachers to students. He underscored students' self-directed learning, fostering confidence in learning, and a student-centered perspective on teaching. Rogers advocated for creating a learning environment in the classroom that stimulates students' interest and deep engagement. He believed that teachers' roles were no longer as knowledge dispensers but as guides for learning, encouraging students to internally embrace learning goals, self-evaluate, and consider teaching and learning issues from their perspective [3].

"Teacher-centered" and "student-centered" represent two opposing but complementary teaching models. The former emphasizes the teacher's dominant role in the classroom, while the latter focuses on students' initiative and autonomy in the learning process. Shifting from "teacher-centered" to "student-centered" involves not just a change in teaching methods but a comprehensive transformation in the educational paradigm, including reforms in evaluation philosophies, standards, and methodologies. Specifically, in the "student-centered" educational philosophy, teaching should not only concentrate on imparting knowledge but also on students' learning experiences, processes, and the cultivation of comprehensive abilities [4].

Within domestic academic circles, Zhao Juming's definition of "student-centeredness" has gained widespread recognition. He posits that the core of the "student-centered" philosophy is to place students' growth, development, and learning outcomes at the center of teaching. Classroom instruction must start from meeting students' needs and promoting their development, tapping into their potential and fostering their abilities for self-directed and active learning. Teaching activities should be more attentive to students' learning experiences and gains, with students' learning outcomes serving as the primary evaluation criterion [5]. Furthermore, teaching

evaluation should not only consider students' academic achievements but also focus on the learning environment jointly created by teachers and students, assessing its effectiveness in supporting students' learning progress and enhancing their learning capabilities.

In summary, the "student-centered" philosophy is an educational ideology that emphasizes students' subject status and individualized development. It requires teachers to shift from their traditional role as knowledge transmitters to learning facilitators, creating a learning atmosphere that stimulates students' initiative and innovativeness. In practice, this philosophy not only emphasizes the design of teaching content but also values interaction and the depth of student engagement during the teaching process. In the context of modern educational reform, the promotion and implementation of the "student-centered" philosophy provide a theoretical basis and practical guidance for enhancing education quality and students' comprehensive development.

### 4. The logic of student-centeredness

### 4.1. Theoretical basis

#### 4.1.1. Constructivist learning theory

As a crucial component of modern educational theories, constructivist learning theory emphasizes that students are active constructors of knowledge. The learning process is seen as a continuous construction and reconstruction of cognitive structures through students' interaction with their environment. This theory views learning as a proactive activity, highlighting that students are not passive recipients of knowledge but actively discover, explore, and construct new knowledge through the interaction of personal experiences and external information. Thus, within the constructivist framework, the teacher's role shifts from being a traditional knowledge transmitter to being a facilitator and guide for learning [6]. Teachers not only help students establish new cognitive structures but also focus on students' learning backgrounds, understand their current knowledge levels and development needs, and adjust teaching strategies and methods accordingly.

Specifically, in the educational philosophy of "student-centeredness," constructivist learning theory provides significant theoretical support. Based on this

theory, teaching activities should start from students' practical experiences, stimulate their proactive learning and exploratory spirit, and encourage them to deepen their understanding and application of knowledge through problem-solving and independent exploration. The teacher's task is no longer merely to impart knowledge but to create a learning environment that supports students' cognitive construction. This involves helping students integrate new knowledge with their existing experiences, promoting deep understanding and critical thinking. Teachers should skillfully utilize teaching resources, consider students' individual differences, design diversified learning activities, motivate students' learning, and facilitate their cognitive development through effective interaction and feedback.

### 4.1.2. Marx's Theory of Comprehensive Human Development

Marxism believes that comprehensive human development involves not only the improvement of intelligence and physical strength but also the balanced development of thoughts, abilities, social relationships, and individuality. Its core lies in three aspects: firstly, the comprehensive and universal development of human productive forces; secondly, the all-round improvement of various talents of individuals; and finally, the free and comprehensive development of humans <sup>[7]</sup>. This theory emphasizes that education should not only focus on imparting knowledge but also pay attention to the comprehensive growth and independent development of individual students, helping them fully unleash their potential in multiple aspects.

Within this framework, the "student-centered" educational philosophy gains profound theoretical support. This philosophy advocates that students should be the subjects of learning, and teaching activities should revolve around students' development needs. In classroom teaching, the teacher's role transitions from being a traditional knowledge transmitter to being a guide and promoter of student learning. Teachers should not only focus on students' academic performance but also pay attention to their growth and development in multiple dimensions such as personality, interests, emotions, and social interactions. Through this student-centered teaching method, teachers can help students develop their ability

to learn independently, improve problem-solving skills, and cultivate comprehensive qualities adapted to future society while engaging in academic learning.

Furthermore, the transformation of the teaching evaluation system is also a core component of "student-centeredness." The traditional teacher-led evaluation model is gradually shifting to evaluation criteria that focus more on students' development processes. Evaluation should not only concern the knowledge and skills students have mastered but also examine their investment in learning, interest, confidence, and how they integrate what they have learned into real life and career goals. Therefore, teaching evaluation should focus more on students' growth status rather than just the final results, better reflecting the educational philosophy of Marxism's theory of comprehensive human development.

# 4.2. Transformation of educational ideology: From "Teacher-Centered" to "Student-Centered"

The traditional educational model has long emphasized a "teacher-centered" approach to teaching. In this model, teachers are seen as the sole source of knowledge, and students often play a passive role in the classroom, merely receiving information. The primary responsibility of teachers is to impart predetermined knowledge to students, who are positioned at the end of the learning process and typically do not have sufficient space and opportunities for active exploration. This model focuses on knowledge transmission and teaching efficiency, overlooking the diversity of students' differences, interests, and needs. Although this traditional approach has provided basic education to most students over the past decades, with social development and the increasing demand for personalized education, the limitations of the traditional "teacher-centered" model have gradually become apparent.

The "student-centered" educational philosophy has emerged as an important reflection and breakthrough from the traditional teaching model. The introduction of this philosophy marks a fundamental shift from a "teacher-centered" to a "student-centered" approach. According to the educational theory of American educator John Dewey, the essence of education should be to promote students' comprehensive development,

rather than merely imparting knowledge. Dewey believed that education should respect students' experiences and interests, emphasizing their initiative and participation in learning. He stated, "Education is not preparation for life, education is life itself." This viewpoint underscores students' subjectivity in the educational process. The role of teachers should shift from being "knowledge transmitters" to "guides" and "facilitators," guiding students to achieve cognitive and autonomous ability improvement through active participation and reflection, while respecting their differences.

With the continuous development of educational theory, Carl Rogers further refined this concept in the 1940s by introducing the "student-centered" teaching theory. Rogers emphasized that education should focus on students' emotional needs and personal development. The classroom is not just a place for knowledge transmission but also a space for self-discovery and self-realization. He believed that teachers should create a supportive learning environment that allows students to freely express, explore, and reflect, thereby enhancing their interest in learning and autonomy. This perspective played a significant role in the formation and development of the "student-centered" educational philosophy.

In a "student-centered" educational system, students are no longer passive recipients of knowledge but active learning subjects. Teachers' roles shift to guides and supporters. They assist students in actively exploring and constructing knowledge by stimulating their interest, promoting participation, and providing appropriate learning resources and feedback. Teachers should attend to students' individual needs, respect their learning paces and styles, encourage them to choose learning content based on their interests, and enhance their learning motivation and autonomous learning abilities. In the classroom, students not only acquire knowledge but also learn how to learn, think, and apply what they have learned to solve practical problems.

The core of this transformation is that education is no longer merely a process of knowledge transmission but a dynamic, interactive, cooperative, and creative process. In this process, students' autonomy and sense of participation are significantly enhanced. They become the protagonists in the classroom, and teachers utilize flexible teaching methods to assist students in freely exploring the vast sea of knowledge, cultivating their critical thinking and innovation abilities. This shift in educational philosophy aligns with today's demand for high-quality talent and echoes the increasing emphasis on personalized education and diverse student development requirements in the educational field.

From theory to practice, the educational sector has continuously explored and experimented with the "student-centered" teaching philosophy. Under the guidance of this philosophy, teaching methods, classroom organization, and the role of teachers have undergone significant changes. For example, the emergence of new teaching models such as active learning, cooperative learning, and flipped classrooms is a manifestation of the "student-centered" philosophy in practice. Teachers are no longer the "controllers" of knowledge but rather the guides, supporters, and collaborators in students' learning processes. Teaching activities are increasingly emphasizing students' active participation and subjectivity in the learning process. This transformation is not only reflected in changes in classroom teaching formats but also in deep reflection and reconstruction of students' learning methods and content.

Overall, the shift in educational philosophy from "teacher-centered" to "student-centered" represents not only an innovation in teaching models but also a profound reflection on traditional educational ideas and methods. By empowering students with more autonomy and a sense of participation in their learning, the essence of teaching has shifted from "imparting knowledge" to "facilitating students' growth and development." The proposal and practice of this philosophy mark a move towards more personalized and diversified education, providing broader opportunities for students' comprehensive development.

## 5. Current status of related research at home and abroad

### 5.1. Domestic related research

In recent years, research on the "student-centered" educational philosophy by Chinese education scholars has gradually increased, and significant progress has been made in related research outcomes. Scholars have explored various aspects such as theoretical connotations, teaching strategies, and practical applications, providing

valuable insights for innovative reforms in China's educational philosophy.

Li Peigen pointed out that with the increase in student population and diversification of educational needs, schools should pay more attention to students' actual demands and development, enhance their learning experience and well-being, thereby improving the attractiveness and quality of education [8]. Li Lian emphasized that the "student-centered" philosophy helps promote teaching reform and improve teaching quality [9]. Liu Xianjun also proposed that the focus of education should shift from "emphasizing teaching" to "emphasizing learning." Therefore, educators should fully recognize the importance of this philosophy and actively apply it in teaching practice [10]. Meanwhile, the "Education Planning Outline" promulgated in 2010 also clearly states that students' subject status in the teaching process should be established, their enthusiasm for learning should be stimulated, and promoting their comprehensive talent development should be the core task of education, focusing on their diverse needs.

Shi Tong *et al.* proposed a new perspective, suggesting that the "student-centered" philosophy should be integrated into scientific research and teaching. They encouraged students to conduct independent scientific research and combine classroom theory with scientific research practice for deep exploration of knowledge [11]. Ma Haihua *et al.* mentioned that the "learning paradigm" teaching model based on the "student-centered" philosophy is different from the traditional "teaching paradigm." The latter focuses on knowledge imparting by teachers, while the former emphasizes providing students with space and an environment for independent discovery and knowledge construction [12].

Regarding the practical application of "student-centered" teaching, Zhao Juming emphasized that the teaching process should focus on students' psychological development and actual needs. The focus of teaching should be on students' learning effectiveness rather than the teaching process itself. Teachers should adjust teaching plans and evaluation criteria based on student feedback [13]. Zhu Jianfang proposed that the teaching model should integrate teaching, learning, and practice. More engaging teaching methods should stimulate students' active participation and enhance their ability to

apply learned knowledge to solve practical problems [14].

In summary, domestic scholars' research on the "student-centered" educational philosophy has gradually enriched and improved not only in theory but also made some progress in teaching practice. Overall, scholars believe that implementing this philosophy requires a three-pronged approach: teachers should respect students and teach according to their aptitudes; the teaching process should focus on student learning effects and adjust teaching strategies based on feedback; and the management level should reflect humanistic care and fully consider students' individualized needs. The implementation of this philosophy not only helps improve education quality but also promotes students' comprehensive development, which has important practical significance.

### 5.2. Related foreign research

In recent years, with the advancement of global education reform, the "student-centered" educational philosophy has received widespread attention and practice in educational systems worldwide. This philosophy emphasizes students' subject status in the educational process and advocates improving education quality by focusing on individual differences among students and developing their autonomous learning abilities. Numerous international studies have shown that the student-centered education model has significant advantages in improving students' learning effects and promoting their cognitive and emotional development.

Firstly, constructivist theory provides strong theoretical support for the "student-centered" educational philosophy. Piaget believed that students are active participants in knowledge construction, and learning is not just a process of receiving information but rather a process where students actively construct their own cognitive structures through interaction and dialogue with the external environment [15]. Based on this, Vygotsky further proposed the theory of the "Zone of Proximal Development," emphasizing that teachers should promote students' further development by guiding them into their cognitive threshold zone. This theory provides a framework for the student-centered teaching model [16].

Regarding specific teaching practices centered on students, recent research has emphasized innovations in teaching methods and strategies. Bonwell *et al.* proposed that active learning is one of the core teaching strategies to achieve a student-centered approach. Through formats such as group discussions and case studies, active learning shifts students from passively receiving knowledge to actively participating in its construction <sup>[17]</sup>. Michael also pointed out that active learning not only improves students' academic performance but also enhances their critical thinking skills, helping them develop problem-solving abilities <sup>[18]</sup>.

Furthermore, cooperative learning, another teaching method aligned with the student-centered philosophy, has garnered widespread attention. Johnson *et al.* suggested that cooperative learning not only promotes knowledge sharing among students but also enhances their social skills and collective problem-solving abilities <sup>[19]</sup>. Topping emphasized that in the process of group cooperation, students not only learn to collaborate but also improve their cognitive level and self-reflection abilities through mutual feedback <sup>[20]</sup>.

In terms of teaching evaluation, the traditional teacher-centered assessment model is gradually shifting towards a student-centered evaluation system that focuses on individual learning outcomes and development processes. Black *et al.* proposed that formative assessment should be an essential component of student-centered education. Formative assessment helps students understand their learning progress through continuous feedback, adjust learning strategies, and thus improve learning effectiveness <sup>[21]</sup>. Further research by Hattie *et al.* indicated that feedback plays a significant role in student learning, and high-quality feedback can significantly enhance student learning outcomes <sup>[22]</sup>.

However, despite the significant achievements of the "student-centered" philosophy's application worldwide, it still faces many challenges in practical implementation. Biggs *et al.* pointed out that the traditional nature of educational systems and cultural backgrounds can be obstacles to transforming educational philosophies. Teachers' teaching concepts, abilities, and understanding of students' individualized needs all have a significant impact on the implementation of the philosophy. Shulman proposed that teachers' professional development is key to successfully applying the "student-centered" teaching philosophy. Teachers need to continuously improve

their educational philosophies, teaching strategies, and classroom management skills [23].

## 6. Practical paths for student-centeredness

### 6.1. Student-oriented instructional design

A "student-centered" instructional design should start from the needs and characteristics of students, with the core objective of promoting students' comprehensive development. When designing courses, teachers should not only consider the systematicness of knowledge content and subject characteristics, but also formulate teaching plans based on students' interests, needs, cognitive levels, and learning backgrounds. This type of instructional design requires teachers to have a deep understanding of individual differences among students, ensuring that the course content can stimulate students' interest and meet their learning needs.

In this process, teachers should focus on designing diversified learning tasks and activities, providing students with options for selecting learning content, and stimulating students' motivation and ability for self-directed learning. Teachers can guide students to learn through practice and exploration, rather than simply imparting knowledge through traditional lecturing methods, by utilizing project-based learning, case studies, role-playing, and other teaching activities. This not only enhances students' knowledge mastery but also cultivates their ability to solve practical problems and critical thinking. Course design should also consider students' multiple intelligences, ensuring that students can experience a sense of accomplishment through various approaches during the learning process.

### **6.2. Diversification and interactivity of teaching methods**

In the "student-centered" teaching philosophy, the diversification and interactivity of teaching methods are core aspects of realizing students' subject status. Traditional teacher-centered teaching methods often emphasize the one-way transmission of knowledge, whereas "student-centered" teaching focuses more on student participation, interaction, and self-directed learning. It advocates dynamic interaction and diversified

methods in the teaching process to enhance students' learning experience and deep learning.

The diversification of teaching methods requires teachers to shift from a single lecturing mode to more diverse and interactive approaches. Instead of relying solely on traditional "spoon-feeding" methods, teachers should design challenging and stimulating teaching activities based on students' learning characteristics and needs. Teachers can encourage active participation through discussions, debates, project tasks, and other formats, thereby enhancing classroom interactivity. In this teaching mode, students are not only receivers of knowledge but also active participants in the learning process, while teachers' roles shift to being guides and supporters.

Interactivity is another key element of "student-centered" teaching. In this mode, teachers need to enhance interaction between teachers and students, as well as among students, by designing interactive segments. Through interaction, students can deepen their understanding of the learned content, expand their horizons, and enhance the depth and breadth of their thinking through collaboration. Teachers can encourage students to express their views and questions in class through questioning, feedback, and group discussions. Interaction not only enhances students' sense of participation but also stimulates their thinking, promoting the development of critical thinking and creativity.

The diversification of teaching methods also implies considering individual differences and learning styles among students in instructional design. Each student has a different learning pace, interests, and way of thinking. Teachers should employ differentiated teaching methods to cater to students' personalized needs. This involves not only presenting content differently but also organizing teaching activities, providing learning resources, and implementing differentiated evaluation methods. Teachers can flexibly adjust teaching strategies and set personalized learning tasks or goals based on students' interests and ability differences. Through this approach, teachers can help students grow in their preferred learning styles, promoting the development of their comprehensive abilities.

## 6.3. Integration of teaching, learning, and evaluation and student engagement

The diversification of teaching evaluation is closely related to student engagement, and both work together to improve student learning quality and educational outcomes. Traditional evaluation methods often focus on final exams or standardized tests. However, in "student-centered" teaching, evaluation places greater emphasis on continuous tracking and comprehensive development of students' learning processes, emphasizing the integration of teaching and evaluation. Through diversified evaluation methods, teachers can more comprehensively understand students' learning progress, promote their active participation, and enhance their autonomous learning and reflective abilities.

"Student-centeredness" requires diversity in evaluation content and methods, no longer limited to traditional knowledge-based exams. Teachers should adopt various forms, such as classroom performance, project work, group discussions, presentations, etc., to comprehensively evaluate students' progress in knowledge mastery, thinking ability, and practical application. These diversified evaluation methods can help students showcase their abilities in all aspects, thereby better promoting their growth in multiple dimensions.

Student engagement in teaching evaluation is the core of the "student-centered" philosophy. Unlike traditional evaluation models, students are no longer passive recipients but active participants in evaluation. Students can not only conduct self-evaluation and reflect on their learning progress but also obtain feedback on their learning process from peers through peer review. This interactive evaluation method can enhance students' sense of responsibility and initiative in their learning, while also helping to cultivate their critical thinking and cooperation skills.

Furthermore, the integrated model of teaching evaluation further strengthens the close integration of evaluation and teaching. In this model, teachers' teaching and students' evaluation are no longer separate but form an organic and integrated whole. Teachers not only impart knowledge in the classroom but also track students' learning in real-time through formative evaluation and provide timely feedback. Through this integrated teaching evaluation model, teachers can more accurately

understand students' learning needs and adjust teaching strategies based on student feedback to ensure that students receive maximum support and guidance during the learning process.

### 7. Summary

This article explores the connotation, logic, and practical pathways of "student-centeredness." "Student-centeredness" is not just a shift in teaching methods but a fundamental change in educational philosophy and teaching models. It emphasizes placing students at the core of educational activities, focusing on individual

differences among students, and promoting their autonomous learning and comprehensive development.

The significance of this article lies not only in providing further reflection on the theoretical construction of the "student-centered" philosophy but also in presenting practical and actionable suggestions for its application. Through in-depth discussions on reforms in teaching methods and evaluation systems, this article provides theoretical support and practical pathways for the continuous advancement of educational reform, aiming to provide a theoretical basis and practical guidance for improving education quality and promoting students' comprehensive development.

#### Disclosure statement .....

The author declares no conflict of interest.

### References

- [1] The Central Committee of the Communist Party of China, State Council, 2020, Overall Plan for Deepening the Reform of Educational Evaluation in the New Era. People's Daily, 2020-10-14.
- [2] Dewey J, 2014, Democracy and Education. China Light Industry Press, Beijing, 1–20.
- [3] Zhang Q, 2017, Rogers' Humanistic Learning Theory and the Transformation of Students with Learning Difficulties. Middle School Political Education, 651(9): 79–80.
- [4] Yu J, 2016, Learning-Centered: A New Paradigm for Teaching Evaluation in Higher Education. Exploration of Higher Education, 2016(11): 11–15 + 20.
- [5] Zhao J, 2016, On the New Three Centers: Concepts and History Part One of the Research on SC Undergraduate Teaching Reform in the United States. Research on Higher Engineering Education, 2016(3): 35–56.
- [6] Li X, Tian L, 2019, Deep Learning from the Perspective of Constructivism. Teaching and Management, 769(12): 1–4.
- [7] Zhu R, 2018, The Logical Path and Value Purpose of Marx's Theory of Comprehensive Human Development Also on Promoting Comprehensive Human Development as the Highest Proposition of Socialism with Chinese Characteristics. Journal of Henan University (Social Science Edition), 58(2): 8–15.
- [8] Li P, 2014, Education Should Be Truly Student-Centered. Shandong Education, 2014(30): 64.
- [9] Li L, 2014, Analysis of the Connotation of the "Student-Centered" Educational Concept. Heilongjiang Education (Higher Education Research and Evaluation Edition), 2014(3): 57.
- [10] Liu X, 2014, Development Trends of University Course Construction. Higher Education Research, 35(2): 65.
- [11] Shi T, Li R, Yang B, 2021, Research on the Problems and Countermeasures of Scientific Research Education in Graduate Education Combining Specific Practices in a University. Journal of Higher Education Studies, 2021(9): 69.
- [12] Ma H, Deng M, Zhang H, 2021, Exploration of the Student-Centered Teaching Paradigm Reform Under the "Double Ten Thousand Plan". Journal of Henan University of Technology (Social Science Edition), 37(1): 91.
- [13] Zhao J, 2017, Opening the Black Box: The Scientific Foundation of Learning and Development (Part 1) The Second Part of the Research on "Student-Centered" Undergraduate Teaching Reform in the United States. Research on Higher

- Engineering Education, 2017(3): 37.
- [14] Zhu J, 2019, Research and Practice of the "Student-Centered" Internal Teaching Quality Guarantee System in Universities. Heilongjiang Research on Higher Education, 37(5): 140.
- [15] Piaget J, 1976, Piaget's Theory of Cognitive and Affective Development: Foundations of Constructivism. Longman, London, 1–20.
- [16] Vygotsky L, 1978, Mind in Society: The Development of Higher Psychological Processes. Harvard University Press, Cambridge, 1–20.
- [17] Bonwell CC, Eison JA, 1991, Active Learning: Creating Excitement in the Classroom. ERIC Digest, Washington, 1–20.
- [18] Michael J, 2006, Where's the Evidence That Active Learning Works?. Advances in Physiology Education, 30(4): 159–167.
- [19] Johnson DW, Johnson RT, Smith KA, 1998, Cooperative Learning Returns to College: What Evidence Is There That It Works?. Change, 30(4): 26–35.
- [20] Topping KJ, 2005, Trends in Peer Learning. Educational Psychology, 25(6): 631–645.
- [21] Black P, Wiliam D, 1998, Assessment and Classroom Learning. Assessment in Education: Principles, Policy & Practice, 5(1): 7–74.
- [22] Hattie J, Timperley H, 2007, The Power of Feedback. Review of Educational Research, 77(1): 81–112.
- [23] Shulman L, 2005, Signature Pedagogies in the Professions. Daedalus, 134(3): 52–59.

#### Publisher's note

Whioce Publishing remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.