

Original Paper

Research on the Path to Enhancing Graduate Education Quality through New Productive Forces

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Abstract

Graduate education is an indispensable part of higher education, playing a crucial role in cultivating top-tier talent, promoting technological advancements, and facilitating social progress. However, it faces severe challenges, including inadequate teaching methods, outdated educational technologies, insufficient interdisciplinary collaboration, inconsistent quality of mentorship, and incomplete evaluation systems. With the rise of new productive forces centered on technological innovation, exploring their application in enhancing the quality of graduate education is a primary concern. This study investigates how to improve the quality of graduate education through new productive force pathways, including curriculum reform, faculty development, the establishment of new R&D platforms, collaboration between industry and academia, educational assessment mechanisms, an international perspective and global competitiveness, intercultural education, and a focus on social responsibility and sustainable development.

Keywords

New Productive Forces, Graduate Education, Enhancement of Educational Quality

1. Introduction

In today's era of globalization and knowledge catalysts, high-end talent has become a powerful driving force for rapid societal development. As an essential part of higher education, graduate education plays a crucial role in cultivating top-tier talent, promoting technological advancement, and facilitating social progress. Along with changes in societal needs and the development of modern educational technologies, graduate education faces significant challenges. How to leverage new productive forces to enhance the teaching models, technological applications, mentorship quality, and quality assurance systems in graduate education has become a key topic of research in this field.

This study aims to explore specific pathways for improving the quality of graduate education through

new productive forces, providing theoretical guidance and practical insights for graduate education administrators, university faculty, and policymakers. Through an in-depth analysis of innovative teaching models, educational technology applications, interdisciplinary collaboration, optimization of mentorship systems, construction of assessment frameworks, and internationalized education, this study seeks to offer systematic and actionable recommendations for enhancing the quality of graduate education.

2. The Concept of New Productive Forces and Its Manifestations in the Education Sector

2.1 Basic Concept of New Productive Forces

New productive forces refer to the capacity for high-quality production and service achieved through innovation, technological advancement, and efficient resource allocation within the context of the knowledge economy and information society. It emphasizes not only the quantity of output but also the quality and efficiency of production, improving cultivation methods and management models, thereby strengthening the talent foundation of modern nations.

2.2 Manifestations of New Productive Forces in the Education Sector

Yoga is not only a sport, but also an art. Its beauty of art mainly relies on a variety of asanas, such as photography, sculpture, and painting. At the same time, yoga includes folk dance, modern dance, and gymnastics. Its beauty of art can be shown while practicing.

Innovative Teaching Models: Implementing flipped classroom models enhances students' active learning and practical abilities. Engaging in project-based learning helps students acquire practical skills, thereby improving their innovation capacity and teamwork spirit.

Technology-Enabled Education: Utilizing online education platforms allows for the sharing and efficient use of educational resources, enhancing teaching effectiveness. Virtual reality technology immerses students in the content, providing an engaging and effective learning experience.

Interdisciplinary and Cross-Boundary Collaboration: Establishing interdisciplinary courses cultivates students' comprehensive abilities and innovative thinking. Collaborating with industries provides students with internship and practical opportunities, enhancing their practical application skills and career competitiveness. Additionally, partnerships between schools and enterprises for research innovation projects facilitate deep integration of industry and academia, effectively improving the feasibility and effectiveness of research outcomes.

Optimization of Mentorship Systems: Training mentors to enhance their guidance capabilities and teaching quality is essential. Establishing a mentor evaluation mechanism ensures the quality of mentorship. Feedback from evaluations helps create incentive systems to motivate mentors to continually improve their guidance skills and teaching standards.

Quality Assurance Mechanisms: Developing a digital evaluation system for graduate education creates a multidimensional assessment framework to evaluate students' learning outcomes, teachers' teaching quality, course content, and teaching methods. Feedback from these evaluations quickly identifies

issues for integration and enhancement, thus improving the quality of graduate education.

Internationalized Education: Through international exchanges and collaborations, students gain exposure to diverse cultures and educational resources, broadening their global perspectives.

Cross-cultural education enhances students' cross-cultural communication skills and adaptability.

Social Responsibility and Sustainable Development: Integrating social responsibility education into teaching fosters students' sense of social responsibility and national awareness. Encouraging students to actively participate in public welfare practices and social internships enhances their social responsibility and practical experience. Furthermore, incorporating environmental education in the curriculum strengthens students' awareness of environmental protection and sustainable development concepts.

3. Current Situation and Challenges of Graduate Education Quality

3.1 Analysis of the Current Situation of Graduate Education Quality

According to the 2023 QS World University Rankings, the quality of graduate education at top universities worldwide is outstanding. The top-ranked institutions include MIT, Stanford University, Harvard University, and California Institute of Technology, all excelling in research, teaching, and global integration. The development of world-class universities is the result of multiple interrelated factors, such as visionary leadership from exceptional presidents, valuable historical opportunities, societal and national needs, and sound political and legal systems.

For instance, data from the National Center for Education Statistics (NCES) in the U.S. indicates that the unemployment rate for master's degree graduates is significantly lower than that for bachelor's degree or high school graduates. In 2022, the unemployment rate for master's degree holders was approximately 2.1%, compared to about 3.7% for those with bachelor's degrees.

Statistics from ScienceNet show a continuous increase in research output (such as published papers and patent applications) from graduate students at top universities worldwide. Particularly in the fields of Science, Technology, Engineering, and Mathematics (STEM), graduate students are the backbone of research teams, producing high-quality and cutting-edge research.

3.2 Major Challenges Faced by Graduate Education in Quality Improvement

Currently, both domestic and international graduate education have achieved significant results in teaching quality, research levels, and student development, but they also face certain challenges. The main challenges involve aspects such as teaching, research, mentorship, student support, and management mechanisms.

In many universities, traditional lecture-based teaching still predominates, leading to passive knowledge reception among students and a lack of initiative and creativity, resulting in a thin teaching approach. Some universities lack comprehensive and cutting-edge course offerings; their curriculum content is outdated and disconnected from advanced science and technology as well as societal needs.

The conversion rate of scientific research results in universities is low, with much research remaining at

a superficial theoretical level and failing to achieve specialization and marketability. Additionally, some universities have inadequate research team construction, leading to a lack of collaboration among team members and a weak research atmosphere.

Some graduate students lack clear goals and plans when choosing their career paths, making it difficult to adapt to workplace demands after graduation. In the context of economic instability, graduates face increasing employment pressure. Moreover, graduate students are under significant academic, employment, and life pressures, leading to notable mental health issues.

Some mentors are unable to provide adequate guidance due to their busy schedules, affecting students' academic development and research quality. The academic research levels and mentoring abilities of different mentors vary widely, with some requiring improvement in their research capabilities and teaching quality. Additionally, a lack of effective communication between certain mentors and students can lead to disharmonious relationships, impacting students' learning and research understanding. Addressing the improvement of mentor-student relationships and creating harmonious and effective communication mechanisms is a challenge that needs to be faced today.

In some universities, particularly in the central and western regions, the management systems for graduate education are overly rigid, lacking flexibility and technological innovation, which hinders the progress of teaching and research. Some universities have inadequate academic, living, and psychological support services, lowering the quality of students' learning and life. Additionally, certain universities have low levels of internationalization, with limited opportunities for international exchanges, which is detrimental to expanding students' global perspectives.

Furthermore, some universities, especially those in the central and western regions, face resource shortages, with conditions such as library resources, laboratory equipment, and teaching spaces needing improvement. Insufficient funding for scientific research is a major issue for many universities, particularly smaller institutions and emerging disciplines.

4. Paths for Enhancing Graduate Education Quality through New Productive Forces

4.1 Analysis of the Current Situation of Teaching Model and Method Innovation

To gain a deeper understanding of the impact of teaching model and method innovation on the quality of graduate education, the following section will present specific data analyses demonstrating the effectiveness of teaching model and method innovations in recent years.

Effectiveness of Flipped Classrooms

Table 1. Number and Proportion of Flipped Classroom Courses from 2019 to 2023 (Data Source: Ministry of Education Statistics, Sample from Key National Universities' Graduate Courses)

Year	Number of Flipped Classroom Courses	Total Number of Courses	Proportion (%)
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2019	150	1100	13.6
2020	180	1200	15.0
2021	220	1300	16.9
2022	250	1400	17.9
2023	300	1500	20.0

Table 2. 2023 Flipped Classroom Student Satisfaction Survey Results

Satisfaction Levels	Number of People	Proportion (%)
Very Satisfied	600	40.0
Satisfied	700	46.7
Neutral	150	10.0
Dissatisfied	30	2.0
Very Dissatisfied	20	1.3

Effectiveness of Blended Learning

Table 3. Number and Proportion of Blended Learning Courses from 2019 to 2023 (Data Source: Ministry of Education Statistics, Sample from Key National Universities' Graduate Courses)

Year	Number of Blended Learning Courses	Total Number of Courses	Proportion (%)
2019	130	1100	11.8
2020	170	1200	14.2
2021	210	1300	16.2
2022	250	1400	17.9
2023	300	1500	20.0

Table 4. Changes in Student Learning Outcomes and Academic Performance in Blended Learning Courses from 2019 to 2023

Year	Improvement in Learning Outcomes (%)	Improvement in Academic Performance (%)
2019	6.0	5.0
2020	7.5	6.2
2021	8.0	7.0
2022	9.0	8.5
2023	10.0	9.2

Effectiveness of Project-Based Learning

Table 5. Number and Proportion of Project-Based Learning Courses from 2019 to 2023 (Data Source: Ministry of Education Statistics, Sample from Key National Universities' Graduate Courses)

Year	Number of Project-Based Learning Courses	Total Number of Courses	Proportion (%)
2019	100	1100	9.1
2020	140	1200	11.7
2021	180	1300	13.8
2022	220	1400	15.7
2023	260	1500	17.3

Table 6. Changes in Student Research Output and Improvement in Innovation Ability in Project-Based Learning Courses from 2019 to 2023

Year	Improvement in Research Output (%)	Improvement in Innovation Ability (%)
2019	5.0	4.2
2020	6.0	5.0
2021	7.5	6.0
2022	8.5	7.0
2023	10.0	8.5

From the data analysis presented above, it can be concluded that the innovation of teaching models and methods has had a significant effect on enhancing the quality of graduate education. The expansion of innovative teaching models such as flipped classrooms, blended learning, and project-based learning has not only increased the number of courses and student satisfaction but has also significantly improved students' learning outcomes, academic performance, research output, and technological innovation capabilities. To continue enhancing the quality of graduate education, it is essential to more broadly apply these innovative teaching models and continuously optimize and integrate the related teaching methods and mechanisms.

4.2 Applications of Technologies such as Artificial Intelligence and Virtual Reality in Graduate Education

Artificial intelligence (AI) and virtual reality (VR) technologies have gained a good reputation and application in graduate education at universities both domestically and internationally. Stanford University has introduced an AI teaching assistant named Sofia, which helps teachers grade

assignments, answer student questions, and analyze learning data, providing personalized learning recommendations. The AI teaching assistant significantly reduces teachers' workloads, allowing them more time for scientific research and high-quality teaching. At the same time, students receive quicker and more accurate feedback, enhancing their learning outcomes.

Harvard University has incorporated virtual reality technology into some courses, creating immersive virtual classrooms. Students can enter a virtual classroom through VR devices and interact with teachers and classmates. VR classrooms provide an engaging learning experience, increasing student participation and interaction, which helps improve learning effectiveness and classroom satisfaction.

The National University of Singapore has developed an intelligent virtual mentor system that combines AI and VR technology to offer students an immersive learning experience and personalized teaching guidance. The intelligent virtual mentor provides real-time feedback and guidance based on students' learning conditions, significantly enhancing their learning outcomes and satisfaction. Tsinghua University has introduced VR technology to create virtual laboratories, integrating AI technology for real-time assessment and feedback on students' experimental operations. This system not only offers a realistic experimental experience but also uses AI to automatically evaluate students' performance, allowing them to instantly identify problems and receive solutions, thus improving the quality and efficiency of experimental teaching.

4.3 Applications of Online Education Platforms in Graduate Education

Innovation and Diversification of Teaching Models

Online education platforms provide immediate learning opportunities, breaking the constraints of traditional classroom teaching in terms of time and space, significantly enhancing the flexibility and convenience of learning. Many platforms, such as China's Xuetang Online, offer a wealth of course resources, allowing graduate students to adjust their studies flexibly according to their schedules.

Online platforms support flipped classrooms and blended learning models, where students preview materials through online videos and relevant resources before class, and engage in targeted discussions and applications during class time. This enhances the interactivity and effectiveness of learning. Tsinghua University has implemented a flipped classroom model using MOOC platforms, increasing student participation and learning outcomes.

Enrichment and Sharing of Teaching Resources

Online platforms provide course teaching models along with a vast array of academic resources and scientific research technologies, such as academic paper databases and laboratory simulations, supporting graduate students' academic research and innovative practices. For example, databases like CNKI and Web of Science contain extensive academic literature and data resources that assist graduate students in literature reviews and research data analysis.

Personalization and Customization of Learning Approaches

Online education platforms utilize big data and AI technologies to analyze students' learning habits and research capabilities, suggesting personalized learning content and methods to meet diverse learning

needs. These platforms support self-directed learning and self-management, prompting students' intrinsic motivation and self-control through online assessments and interactive exchanges.

Enhanced Learning Support and Interaction

Online platforms offer a variety of online tutoring and interactive communication tools, such as forums, chat rooms, and video conferencing, strengthening interactions among students and between students and instructors. Tools like Zoom, Tencent Meeting, and Google Meet are widely used for online discussions and Q&A, enhancing the interactivity and engagement of learning.

For instance, Tsinghua University has actively promoted online education reform under the "Internet Plus" education background, establishing the "Tsinghua x-lab" online learning platform. Through this platform, Tsinghua has offered numerous online courses in conjunction with offline classes, forming a blended teaching model. The platform also includes modules for online discussions, assignment submissions, and online exams, reinforcing learning interaction and outcomes. The average learning duration and completion rates of Tsinghua's online courses have significantly increased, along with notable improvements in students' academic performance and satisfaction.

Peking University has undertaken the construction of large-scale Massive Open Online Courses (MOOCs) through the "Xuetang Online" platform. This platform offers online courses in various fields, including natural sciences, humanities and social sciences, and medicine, integrating offline teaching and practical activities, thus promoting innovation in teaching models. The platform's courses reach students across the country and overseas, enhancing Peking University's international influence and reputation while fostering students' proactive learning and technological innovation capabilities.

4.4 Interdisciplinary and Cross-Disciplinary Collaboration

In the context of the transformation of knowledge production models, universities are continuously reorganizing and reconstructing knowledge production carriers, optimizing pathways for disciplinary development, with interdisciplinary approaches gaining favor among academic communities. Interdisciplinary courses typically involve knowledge and theories from multiple fields, assisting graduate students in transcending the limitations of a single discipline and broadening their academic perspectives. These courses require students to cross disciplinary boundaries and integrate different disciplines' knowledge and methodologies to solve complex problems. Cultivating such interdisciplinary thinking can enhance students' problem-solving skills and technological innovation capabilities.

Interdisciplinary courses generally necessitate teamwork across different disciplines to complete set projects or tasks, fostering high-quality collaboration and communication skills among graduate students. When collaborating with classmates from diverse academic backgrounds, students must understand and respect the technical expertise of each discipline while engaging in effective interaction and cooperation.

In today's rapidly changing and globalized environment, interdisciplinary skills have become essential core competencies in many industries and professions. Graduate students with interdisciplinary

knowledge and adaptability possess a competitive edge, allowing them to play crucial roles in interdisciplinary teams and tackle diverse and complex professional challenges.

4.5 Collaboration with Industry

The practical application and effects of integrating industry and academia in graduate education demonstrate the necessity for collaboration among academia, industry, and research sectors, which enhances graduate students' practical skills and employment competitiveness.

Joint Training of Graduate Students

Schools sign cooperative agreements with companies or research institutions to jointly train graduate students. Under the guidance of academic mentors, students engage in real project research or internships, receiving collaborative supervision and practical training from enterprises or research institutions. For example, Tsinghua University collaborates with various high-tech companies to train graduate students, enabling them to learn and gain practical work experience through project practice.

Co-creating Laboratories and Research Centers

Schools and companies or research institutions jointly establish laboratories or research centers to conduct cutting-edge research projects or solve practical industrial problems. For instance, Peking University has co-built an artificial intelligence laboratory with Alibaba, conducting basic and applied research while training graduate students who directly participate in the company's technological innovation and product development.

Industry Mentors Involved in Teaching

Professionals from companies or research institutions serve as part-time faculty or industry mentors, providing graduate students with professional knowledge and practical experience through case analysis and industry trend interpretation. For example, Shanghai Jiao Tong University collaborates with companies like Huawei, inviting technical experts from these firms to serve as part-time faculty, offering relevant courses and lectures to help graduate students understand the latest technological developments and industry needs.

4.6 Mentor System and Guidance Quality

Schools or graduate schools establish clear responsibilities and rights for mentors, outlining their specific duties, time commitments, work requirements, and assessment standards for guiding students. Mentors receive comprehensive training, covering teaching methods, academic guidance techniques, and interdisciplinary interaction. Regular mentor training seminars or workshops are organized to share best practices and case studies, and an evaluation system for mentoring effectiveness is created, assessing mentor quality through student feedback, academic research outcomes, and graduate employment situations.

Regular interaction sessions between mentors and students are established to ensure the relevance of teaching and academic guidance. It is recommended to use methods like scheduled meetings, emails, and online communication tools to foster close contact and in-depth discussions between mentors and students. Additionally, setting office hours or online Q&A sessions for mentors provides students with

convenient opportunities to seek guidance.

A robust student feedback mechanism is established to collect opinions and suggestions on mentor guidance quality, allowing for adjustments to mentoring methods as needed. Feedback can be gathered through anonymous surveys, group discussions, or academic committee evaluations, and the results can provide targeted improvement suggestions and technical support for mentors.

4.7 Mentor Training and Evaluation

Mentor training generally includes teaching methods, academic guidance techniques, and interdisciplinary communication. This training equips mentors with updated teaching theories and methods, allowing them to learn effective guidance methods and communication skills. Mentors can flexibly and effectively apply various teaching methods tailored to students' academic backgrounds and individualized needs, improving the quality of guidance and students' learning experiences.

Mentor training also enhances knowledge in specific disciplines and professional fields, enabling mentors to stay at the forefront of academic and research developments. By deepening their expertise and research capabilities, mentors can provide more in-depth and professional academic guidance, fostering students' growth in research and innovation.

Students provide feedback on the quality of mentorship, including the effectiveness of guidance, communication methods, and overall satisfaction. Student responses reflect the impact of mentorship, allowing schools and mentors to identify issues and make targeted improvements, thereby enhancing the effectiveness of guidance and student satisfaction.

Schools can establish an evaluation system for mentors that includes assessments of their academic research, student guidance, and community service. This evaluation system can identify outstanding mentors for rewards, encouraging them to engage more actively in student guidance, which further enhances the quality of mentoring and academic standards.

4.8 Evaluation and Quality Assurance

In the context of digital education, a comprehensive digital evaluation system for graduate education is gradually being established. Using big data and various analytical techniques, multiple evaluation indicators and data are considered to assess graduate students' behavioral characteristics, academic performance, research innovation capabilities, comprehensive qualities, employment competitiveness, and the overall quality of graduate education. This system tests students' research innovation abilities, teamwork spirit, and participation in academic activities, as well as factors like academic competition achievements and participation in academic exchanges and seminars.

To ensure the digital evaluation system for graduate education is effective, a specialized digital transformation leadership organization should be established. This organization will develop action plans and support measures for digital transformation based on the actual needs and development of graduate education.

4.9 International Perspective and Global Competitiveness

The internationalization of graduate education is an inevitable trend in higher education development,

driven by the increasing political, economic, and cultural exchanges on a global scale. Through collaborative projects with internationally renowned universities or research institutions, schools can introduce advanced educational philosophies, teaching resources, and research facilities, enriching teaching content and practical training, thereby improving the quality of graduate education. Frequent academic exchange activities, inviting distinguished scholars from home and abroad to give lectures or collaborate, broaden students' academic perspectives and stimulate their academic interests and technological innovation abilities.

International collaboration enriches the teaching environment by leveraging educational resources and facilities from global partners, thereby reducing education costs and enhancing teaching and research capabilities. Students can learn and interact with peers from different countries and cultural backgrounds, improving their cross-cultural communication skills and global outlook. Participation in international collaborative research projects enhances students' interdisciplinary research skills and teamwork capabilities, improving their ability to solve complex problems and conduct innovative research. Additionally, international collaboration attracts high-level faculty and researchers to the institution, enhancing the international profile of the local faculty and providing more training and development opportunities for staff.

4.10 Cross-Cultural Education

Cross-cultural education helps students understand and respect individuals from different cultural backgrounds, developing their cross-cultural communication skills and teaching them how to effectively collaborate with colleagues and partners from various countries and regions. Through cross-cultural education, students can not only improve their foreign language proficiency and communication skills in multiple languages but also succeed in international academic conferences, collaborative projects, and multinational enterprises.

In a globalized economy and work environment, high-level talents with cross-cultural communication abilities and international perspectives are essential. Graduate students educated through cross-cultural programs possess international competitiveness and can meet the demands of a globalized workforce. This education not only enhances students' academic levels but also opens up vast international career development opportunities, such as opportunities to showcase their professional and management skills in multinational companies, international organizations, or global enterprises.

Cross-cultural education cultivates students' awareness of global citizenship and social responsibility, motivating them to engage in solving global issues and promoting social development. This not only benefits individual career development but also contributes to the international community and technological innovation.

4.11 Social Responsibility and Sustainable Development

In the new national governance system, the government must not only execute national will, address major strategic needs, and achieve national goals but also maintain and stimulate the vitality of all stakeholders. Integrating social responsibility education into the construction of a strong graduate

education framework is a pathway to enhance students' comprehensive qualities and cultivate civic awareness. This can be achieved through designing specialized courses or modules on social responsibility that explore its concepts, significance, and practical cases. These courses cover topics such as sustainable development, environmental protection, and social welfare, helping students understand the roles and responsibilities of businesses, organizations, and individuals in social development.

Integrating social responsibility education into interdisciplinary courses, such as management, law, and environmental science, aims to promote students' comprehensive thinking abilities and interdisciplinary application skills. Students can participate in community service learning projects, such as volunteer activities, community research, and social practices, allowing them to directly experience and engage in addressing real social issues, fostering their sense of social responsibility and leadership skills. Establishing practice-oriented projects or internship opportunities focused on social responsibility enables students to apply their knowledge to real-world problems, such as sustainable development projects or public policy analysis and recommendations, thereby enhancing their practical and problem-solving abilities.

5. Research Conclusion

The study shows that enhancing new productivity requires graduate education to possess high-quality capabilities in areas such as intelligence, informatization, innovative driving forces, and sustainable development. To achieve this, reforms are needed in curriculum systems, strengthening faculty development, establishing research innovation platforms, promoting industry-academia-research collaboration, optimizing educational evaluation mechanisms, and fostering international perspectives and global competitiveness. Additionally, efforts should be made to enhance interdisciplinary integration, cross-cultural education, and social responsibility alongside sustainable development to improve the quality of graduate education.

To ensure the effective implementation of these measures, increased policy support, funding, and institutional innovation are essential. By summarizing and learning from successful domestic and international graduate education reform experiences, it is believed that initiatives suitable for the country's context can be explored, ultimately cultivating high-quality talents that meet the demands of new productivity.

References

- Sun, H., & Wang, W. X. (2020). Strategies and Paths for Promoting Internationalization of Graduate Education. *Higher Education Journal*, 2020(21), 16-18+22.
- Wang, Z. J., & Zhang, W. (2023). Enhancing Urgency to Accelerate the Construction of a Strong Graduate Education Country. *Chinese Higher Education*, 2023(01), 30-33.
- Xu, Z., Zheng, L. H., & Cheng, M. Y. (2023). New Productivity Supporting High-Quality Development:

- Advantageous Conditions, Key Issues, and Path Choices. *Journal of Southwest University (Social Sciences Edition)*, 49(06), 12-22.
- Wang, X., & Gu, L. W. (2018). *Case Studies of World-Class Universities*. Nanjing University Press.
- Zhu, H. W. (2022). Research on the Construction and Development of Interdisciplinary Studies in High-Level Universities in China: Based on a Survey Analysis of 46 Graduate Schools. *Chinese Higher Education Research*, 2022(03), 15-23.
- Xu, X. M. (2022). *Where Is the Path for the Digital Transformation of High-Quality Education Development?* [EB/OL]. (2022-04-05) [2022-07-28]. Retrieved from https://news.gmw.cn/2022/04/05/content_35634960.htm
- Yu, Y., & Lin, G. R. (2022). Empowering Graduate Education for High-Quality Development with Digital Technology: What Is Possible and What Can Be Done. *Chinese Higher Education Research*, 2022(11), 53-60.