
AI translation · View original & related papers at
chinaxiv.org/items/chinaxiv-202401.00252

JIPB's Path to Excellence: Benchmarking Against Internationally Renowned Plant Science Journals

Authors: He Ping, Tan Jingjing, Liu Guojun, He Ping

Date: 2024-01-23T00:00:00+00:00

Abstract

Objective Journal of Integrative Plant Biology (hereinafter referred to as JIPB) benchmarks itself against internationally renowned plant science journals to explore strategies and measures for catching up and surpassing, providing references and lessons for accelerating the construction of world-class scientific journals in China.

Methods Data comparative analysis and case study methods were adopted. VOSviewer software was used to construct keyword co-occurrence network maps. By benchmarking against the internationally renowned plant science journal Journal of Experimental Botany (hereinafter referred to as JXB), the main bibliometric indicators of JIPB and JXB were analyzed, including journal impact factor, total citation frequency, international paper ratio, journal citation indicator, author distribution, disciplinary radiation scope, annual publication volume, and top-tier papers.

Results Since receiving funding from the “Excellence Action Plan for Chinese Science and Technology Journals” (hereinafter referred to as the “Excellence Plan”), JIPB has achieved remarkable construction results by adopting a series of measures to catch up with and partially surpass JXB, including deep involvement of leading authoritative scientists from home and abroad in journal operation, publishing major achievements with original innovation, establishing a professional journal management system, and providing efficient and high-quality publishing services.

Conclusion Under the support of the “Excellence Plan” and benchmarking against internationally renowned plant science journals, JIPB has continuously improved its academic level and international influence. Its internationalization development strategy and journal operation practices represent beneficial

attempts at building excellent journals, exploring an excellence path for China to construct world-class scientific journals.

Full Text

Abstract

[Purpose] Journal of Integrative Plant Biology (JIPB) explores strategies for catching up with and surpassing internationally renowned botanical journals through benchmarking, providing valuable insights for accelerating the construction of world-class scientific journals in China. **[Methods]** This study employs comparative data analysis and case analysis methods. Using VOSviewer software, we constructed keyword co-occurrence network maps. By benchmarking against the internationally renowned Journal of Experimental Botany (JXB) in plant sciences, we analyzed key bibliometric indicators of both journals, including impact factor, total citations, international paper ratio, journal citation indicator, author distribution, disciplinary coverage, annual publication volume, and top-tier papers. **[Findings]** Since receiving funding from the “Excellence Action Plan for China STM Journals” (hereinafter “Excellence Plan”), JIPB has significantly narrowed the gap and partially surpassed JXB through measures such as deep involvement of leading domestic and international scientists in editorial operations, publication of major achievements with original innovation, establishment of a professional journal management system, and provision of efficient, high-quality publishing services. **[Conclusions]** Under the Excellence Plan’s support and using internationally renowned botanical journals as benchmarks, JIPB has continuously improved its academic level and international influence. Its international development strategies and editorial practices represent beneficial attempts at building excellent journals, charting an exemplary path for China to develop world-class scientific journals.

Keywords: Excellence Action Plan for China STM Journals; international development; performance analysis; Journal of Integrative Plant Biology

Funding: Excellence Action Plan for China STM Journals—Tiered Journal Project (Excellence Plan-C-143); Chinese Academy of Sciences Program for Introducing Excellent Talents in Journal Publishing (E341RG1001).

Authors: HE Ping (ORCID: 0009-0008-0515-8532), PhD, Senior Editor, Editorial Director of Journal of Integrative Plant Biology, E-mail: he1001@ibcas.ac.cn; TAN Jingjing, PhD, Associate Editor; LIU Guojun, MSc, *Corresponding author.

Scientific journals aggregate scientific discoveries, host academic exchanges, lead technological development, and preserve human civilization, serving as important indicators of a nation’s scientific competitiveness and cultural soft power [1]. In recent years, to accelerate the construction of world-class scientific journals, China has issued important policy documents including “Opinions on Deepening Reform to Cultivate World-Class Scientific and Technological Journals”

and “Opinions on Promoting the Prosperous Development of Academic Journals” [2], providing favorable development opportunities for scientific journals. In September 2019, the China Association for Science and Technology, Ministry of Finance, Ministry of Education, Ministry of Science and Technology, National Press and Publication Administration, Chinese Academy of Sciences, and Chinese Academy of Engineering jointly implemented the “Excellence Action Plan for China STM Journals” (hereinafter “Excellence Plan”) to promote high-quality development of Chinese scientific journals. The Excellence Plan aims to build world-class scientific journals, funding 22 leading journals, 29 key journals, and 199 tiered journals [3]. Journal of Integrative Plant Biology (JIPB), sponsored by the Institute of Botany, Chinese Academy of Sciences and the Botanical Society of China, was selected for the Excellence Plan’s tiered journal project.

Founded in 1952, JIPB differs from newly launched journals. As a traditional classic Chinese journal [4], JIPB has continuously broken through along the path of “old city renovation” [5-7] through difficult yet effective reform measures, gradually stepping onto the international academic stage. The journal actively promotes the concept of “integration,” publishing important innovative achievements in integrative plant biology research globally. It is currently indexed by 85 major databases including SCI, EI, and PubMed. Under the leadership of current co-Editors-in-Chief Academician Zhong Kang from the Institute of Botany, Chinese Academy of Sciences and Professor Gong Zhizhong from China Agricultural University, together with an international editorial board of 120 top experts from 11 countries and editorial office members, JIPB insists on being run by leading domestic and international scientists, continuously improving editorial and publishing quality. It has become an internationally influential, first-class academic journal in integrative plant biology representing China’s plant science development level.

Since being selected for the Excellence Plan’s tiered project, JIPB has implemented multiple measures to catch up with its international benchmark journal, Journal of Experimental Botany (JXB). JXB was chosen as the benchmark for several reasons: both are society-sponsored journals (JXB is the official journal of the UK Society for Experimental Biology, while JIPB is sponsored by the Botanical Society of China); both are classic, established journals with over 70 years of history (JXB founded in 1950, JIPB in 1952); both are published by internationally renowned publishing groups (Oxford University Press for JXB, Wiley for JIPB); and both are comprehensive plant science journals. JXB is dedicated to publishing research advances in plant science, profoundly influencing botany and its interdisciplinary fields with high international academic influence.

In 2022, JIPB’s impact factor ranked 10th among 235 journals in plant sciences, becoming one of the excellent journals entering the top 5% of international disciplinary rankings [9]. Previous studies have analyzed the effectiveness of Excellence Plan funding. Ding Zuoqi [10,11], Li Chuwei et al. [12], Yang Baohua et

al. [13], and Zhang Houquan et al. [14] evaluated and analyzed the international influence of all or selected Excellence Plan journals based on Dimensions and Altmetrics. Gao Yuan et al. [15] summarized the editorial practices and achievements of excellent journals. Guo Siqu et al. [16] compared excellent journals with their international counterparts to identify gaps. However, few studies have examined how excellent journals surpass their benchmark international journals.

This paper systematically compares key bibliometric indicators of JIPB and its benchmark JXB from 2018-2022 in fine granularity, focusing on influence, dissemination, and peer attention. It analyzes JIPB's strategies and practices for improving academic level and international influence, summarizing its measures and experiences in catching up with and partially surpassing JXB, to provide useful references for accelerating China's construction of world-class scientific journals.

1 Research Methods and Data Sources

This study primarily employs comparative data analysis and case analysis methods. Data acquisition, analysis, and summary are based on authoritative international databases including Web of Science (WoS), Journal Citation Reports (JCR), and official journal websites.

Through JCR, we queried bibliometric indicators for JIPB and JXB, including Journal Impact Factor (JIF), JIF Rank, Journal Impact Factor Percentile (JIFP; RJIFP), Total Cites (TC), Journal Citation Indicator (JCI), international paper ratio, author distribution, disciplinary coverage, annual publication volume, and top-tier papers. JCI, introduced by JCR in 2021 [14], reflects the average normalized citation impact of citable articles published by a journal in the past three years. We employed both absolute and relative bibliometric indicators for multi-dimensional comparative analysis. Using WoS Core Collection, we extracted keywords and article co-citation relationships for JIPB publications, constructing keyword co-occurrence network maps with VOSviewer software. The data collection period spanned 2018-2022, with data retrieved by March 12, 2023.

2 Comparative Analysis of Bibliometric Indicators Between JIPB and JXB

2.1 JCR Quantitative Indicators and Trends

We obtained JIF, JIF Rank, JIFP, TC, JCI, and article counts included in impact factor calculations for both journals over the past five years, with results shown in Table 1 .

Since 2019, JIPB's impact factor has increased annually, surpassing JXB in 2021 and further rising to 1.23 times that of JXB in 2022. JIPB also surpassed JXB in JIF Rank and RJIFP in 2021, with RJIFP reaching 96.03% in 2022.

JIPB's strong performance is noteworthy and not easily achieved [14]. These indicators demonstrate that during the Excellence Plan implementation period, JIPB has surpassed its international benchmark JXB, entering the ranks of first-class journals in the top 5% of plant science internationally [14].

JCI is calibrated so that the average JCI for all journals in a category over the past three years equals 1 [14]. Both journals' JCI values exceed 1, but JXB's JCI has declined over the past five years while JIPB's has continued to rise, showing favorable development momentum.

JIPB and JXB published 485 and 2,402 articles respectively included in impact factor calculations, with total citations of 28,152 and 265,674. JXB's publication volume is 4.9 times that of JIPB, and its total citations are 9.4 times greater. The average citations per article are 58 for JIPB and 110 for JXB, with JXB's being 1.9 times higher. This indicates that while JIPB's academic dissemination power has significantly improved in recent years, a gap remains compared to JXB.

2.2 Citing Literature Analysis

We compared the quantity and disciplinary distribution of citing literature for both journals over the past five years, with results shown in Table 2 .

JIPB had 9,952 citing documents, while JXB had 31,384, with JIPB's disciplinary influence reaching approximately 31.7% of JXB's. Given that JIPB's publication volume is about one-fifth of JXB's, this suggests JIPB's capacity to disseminate scientific research has gradually improved with enriched promotion methods, narrowing the gap with JXB. Among the top 10 disciplines of citing literature, plant sciences and biochemistry & molecular biology rank first and second for both journals. JIPB's citing literature from plant sciences accounts for 59%, slightly higher than JXB's. Approximately 82% of JIPB's citing literature originates from plant sciences and biochemistry & molecular biology, compared to only 71% for JXB, indicating JIPB's influence in these related fields is slightly higher than JXB's.

2.3 Author Geographic Distribution

We analyzed the country/region distribution of authors for both journals from 2018-2022, with results shown in Table 3 and Table 4 .

JIPB authors came from 34 countries/regions, while JXB authors were distributed across 88 countries/regions—a difference of 54 countries. JIPB's author distribution is 60% less than JXB's in terms of country count. In terms of author proportion, Chinese authors contributed the most to JIPB (57%), followed by US authors (15%) and German authors (5%). For JXB, Chinese authors also ranked first (19%), followed by US authors (11%) and German authors (9%). This indicates JIPB's internationalization level still lags significantly behind JXB's, and future efforts should intensify international promotion

to attract more global submissions.

2.4 Top-Cited Papers Comparison

We queried the WoS database to identify the top 10 most-cited papers from both journals during 2018-2022, with results shown in Table 5 and Table 6 .

JIPB's top 10 most-cited papers averaged 245.8 citations each, while JXB's averaged 218.1 citations, indicating JIPB's publications received higher attention during the study period. Further analysis of zero-citation papers showed JIPB had 18 such papers (3.3% of total publications) versus JXB's 107 (3.9%), further confirming JIPB's overall influence slightly exceeds JXB's.

In summary, within the study scope, JIPB has surpassed JXB in impact factor and related indicators as well as in average citations of top-tier papers. However, gaps remain in publication volume, average citations per article, disciplinary coverage of influence, and geographic distribution of authors.

JIPB's overall Excellence Plan targets were: JCR impact factor reaching 5.5, total citations reaching 6,000, disciplinary ranking within top 15, and publication volume reaching 90 articles. JIPB has already exceeded these targets ahead of schedule.

3 Proactive Exploration and Effective Measures for Catching Up and Surpassing International Benchmark Journals

With Excellence Plan support, JIPB has actively explored multiple avenues: soliciting excellent manuscripts to improve academic standards, expanding international influence through diverse promotion channels, and cultivating editorial talent through training and exchanges. Aiming at internationally renowned journals, JIPB has achieved outstanding results in building a high-level editorial board, professional editorial team with international vision, publishing major achievements with original innovation, establishing professional management systems and efficient publishing services, and accelerating integrated media construction to rapidly enhance article dissemination.

3.1 Deep Involvement of Leading Domestic and International Scientists

Attracting world-class plant scientists to establish an authoritative and committed international editorial board has been a crucial measure for JIPB's international development. Academician Zhong Kang from the Institute of Botany, Chinese Academy of Sciences and Professor Gong Zhizhong from China Agricultural University serve as co-Editors-in-Chief. Eight renowned domestic and international experts including Academician Ian Baldwin from the Max Planck Society serve as Deputy Editors. Outstanding researchers and energetic mid-career scientists have been recruited to strengthen the editorial board, which undergoes dynamic optimization to maximize initiative. Academic leadership,

judgment, and quality control are entirely managed by frontline scientists who play core roles in submission, peer review, and solicitation. The journal implements a responsible editor system for manuscript processing, with joint quality control by Editors-in-Chief, Deputy Editors, and Editorial Board Members. The editorial office actively supports the board by carefully compiling an Editorial Board Handbook and regularly holding international/domestic board meetings to discuss development strategies and future plans, enhancing board members' sense of belonging and honor. The board's forward-looking vision on international development drives the journal's rapid progress.

3.2 Highlighting “Integration” to Attract and Publish Major Achievements with Original Innovation

JIPB employs multiple measures to attract high-quality manuscripts with major originality, carefully selecting and publishing important research papers, breakthrough reports, new resources, new technologies, and commentaries in international plant biology. Highlighting “integration,” the journal focuses on ten major areas including plant cell and developmental biology, functional genomics and systems biology, and molecular physiology, covering significant progress and latest discoveries.

Using the WoS Core Collection database, we extracted keywords and article co-citation relationships for JIPB publications, constructing a keyword co-occurrence network map with VOSviewer (Figure 1 [Figure 1: see original paper]). The analysis shows that from 2018-2022, the journal's publications primarily addressed hot topics such as plant molecular evolution, growth and development, metabolism, environmental responses, and stress tolerance, with increasing research on crop-related topics like rice domestication, disease resistance, and genome design. This demonstrates JIPB's publications well cover important advances and research hotspots in plant science during this period.

Based on disciplinary research hotspots, JIPB annually plans and publishes special issues on important themes. From 2020-2022, nine thematic issues/special issues were organized, with an average citation frequency of 25 times per article (Table 7), compared to the overall average of 14 citations for 2020-2022 publications, indicating higher academic quality of special issue articles that effectively lead disciplinary development. Since 2020, the journal has invited renowned domestic and international scientists to write invited reviews on plant science advances, published annually at the beginning of each year. These invited review special issues have continued for three consecutive years, with citation data shown in Table 7. Analysis reveals that invited review articles from 2020-2022 had significantly higher average citations than other special issue articles. The 41 invited review articles published during this period received a total of 2,020 citations, averaging over 49 citations per article. As shown in Figure 2 [Figure 2: see original paper], the total citations of invited review special issues (one issue in 2020, one in 2021, and two in 2022) increased significantly.

JIPB emphasizes highlighting the “integration” characteristic by continuously enriching article types, adding Brief Communications and News and Views formats. The journal also demonstrates strong capacity for reporting latest research findings, with an immediacy index of 3.57 in 2022, ranking 6th among 235 international plant science journals.

After implementing strong measures, manuscript submissions increased rapidly. Total submissions were 312 in 2019, 2.5 times higher at 780 in 2020, and reached record highs of 819 in 2021 and 835 in 2022 (Figure 3 [Figure 3: see original paper]). While maintaining academic quality, publication volume has continuously increased, reaching 164 articles in 2022, an 86% increase from 88 articles in 2018 (Figure 3).

Meanwhile, publication influence continues to rise. According to Clarivate Analytics ESI data, 943 papers published by JIPB from 2011-2021 averaged over 19 citations each. Forty-three papers were recognized as global top 1% highly cited papers [17], with 65% (28 papers) published in 2019-2021, including four recognized as global top 1‰ hot papers [18-21].

3.3 Accelerating Integrated Media Construction to Rapidly Enhance Article Dissemination

Integrated media construction is crucial for scientific journals to enhance article dissemination. JIPB has built a world-class English website, continuously optimizing the interface to highlight key content, with over 20,000 active users. To boost international dissemination, the journal partnered with US-based PlantEditor to launch Twitter and Facebook accounts, promptly posting latest accepted articles and important journal information. By the end of 2022, Twitter averaged over 34,000 monthly visits, reaching nearly 3,000 users, with total tweet impressions of approximately 410,000, significantly strengthening international article influence. The journal also coordinates with Wiley’s social media accounts to promote newly published articles. Additionally, Chinese introductions of latest accepted articles are promptly pushed through WeChat, Weibo, and ScienceNet, with strengthened connections to mainstream academic websites and public accounts for widespread reprinting. In the first three quarters of 2021, JIPB was consecutively listed among China’s Top Academic Journals by WeChat Dissemination Power, ranking 6th in the third quarter. By the end of 2022, the journal’s WeChat public account had 26,000 followers, an 84% year-over-year increase.

3.4 Building a Professional Editorial Team with International Vision

All JIPB editorial staff hold doctoral degrees with professional disciplinary backgrounds and overseas study or visiting experience, providing excellent international service capabilities. Editorial members include recipients of the Chinese Government Award for Outstanding Editors and the Chinese Academy of Sciences Program for Introducing Excellent Talents in Journal Publishing, pos-

sessing rich professional knowledge and experience. Strict implementation of the “three reviews and three proofreads” system has ensured JIPB consistently receives excellent ratings in the Chinese Academy of Sciences’ annual journal review.

3.5 Professional Journal Management System and Efficient, High-Quality Publishing Services

JIPB’s editorial and publishing operations consistently follow international rules and conventions. Benefiting from Wiley’s comprehensive publishing system and processes, JIPB established a complete set of research integrity and publication ethics systems, copyright transfer mechanisms, and journal management systems over a decade ago, creating an efficient and 完善的 editorial process that meets international standards.

Manuscript processing follows the responsible editor system, Editor-in-Chief final review system, and high-quality manuscript rapid publication system, strictly implementing “three reviews and three proofreads” to control academic and editorial quality. JIPB was among the first to integrate the anti-plagiarism CrossCheck system into its submission platform, preventing some academic misconduct. Layout and cover design, content arrangement strive for novelty and aesthetics, continuously improving publishing service quality. JIPB has twice received the “China’s Most Beautiful Journal” award.

Processes have been repeatedly adjusted to simplify system operations and improve review efficiency. JIPB’s average time to first decision is currently 18 days, with accepted articles published online within 48 hours. High-quality, competitive manuscripts can access the PubExpress fast track, with final decisions made within 3-5 days, providing rapid, high-quality publishing services. For example, a paper by He Xinjian et al. in Issue 2, 2019 [22] was published just 7 days after submission.

3.6 Hosting Branded Academic Conferences to Build Exchange Platforms for Chinese Plant Science

JIPB has organized the biennial “International Symposium on Integrative Plant Biology” multiple times, with nearly 400 experts and scholars from renowned domestic and international universities and research institutes participating, including academicians from the Chinese Academy of Sciences, French Academy of Sciences, and University of California professors. The conference successfully showcased interdisciplinary developments and research frontiers in integrative plant biology. In 2020, JIPB successfully hosted another “Integrative Plant Biology Symposium,” with renowned plant biology experts and JIPB editorial board members delivering excellent presentations on plant gene editing and applications, molecular evolution, growth and development, and environmental responses, comprehensively demonstrating cutting-edge advances in China’s

integrative plant biology. Over 1,000 participants from multiple research institutes and universities attended through online and offline channels.

In recent years, JIPB has fully sponsored and participated in important domestic and international conferences in plant science including the “International Conference on Arabidopsis Research,” “National Plant Biology Conference,” and “National Symposium on Plant Stress Biology,” producing promotional materials and setting up exhibition booths to publicize the journal. The journal also actively participates in various journal development forums, sharing editorial experiences with attendees and showcasing the journal comprehensively.

3.7 International Publishing and Global Distribution

As a pioneer in international cooperative publishing, JIPB partnered with UK-based Blackwell Publishing (now Wiley) as early as 2005. Article language polishing undergoes dual quality control by Wiley and US-based Plant Editors, ensuring English language quality. The online version is released globally through Wiley’s publishing platform, with distribution reaching over 200 countries.

Under Excellence Plan support and using internationally renowned botanical journals as benchmarks, JIPB has strengthened its international editorial board and professional editorial team, published major scientific achievements with original innovation, provided efficient and high-quality publishing services, and accelerated integrated media construction to rapidly enhance article dissemination. Through high-quality project implementation, coupled with rapidly improved disciplinary ranking, quality content construction, and extensive dissemination capabilities, JIPB achieved excellent results in the Excellence Plan’s mid-term evaluation, ranking in the top 4% of national tiered journals. While improving academic level and international influence, JIPB has continuously increased publication volume, already exceeding its overall Excellence Plan targets ahead of schedule. This study’s limitation is that the comparison between the two journals focuses primarily on bibliometric indicators, without examining other aspects including JXB’s editorial measures. Future research should expand dimensions and communication channels to obtain more information for comprehensive multi-dimensional comparisons. To achieve further breakthroughs and compete with top international plant science journals such as *The Plant Cell* and *Plant Biotechnology Journal*, JIPB must continue exploring international development paths, accelerating digital transformation. As a traditional journal, it must pursue characteristic development, opening new tracks. It should explore transformation under current open science trends and break knowledge dissemination barriers by implementing open access to maximize article dissemination [23].

At 70 years, JIPB remains youthful! In this new era and new starting point, under the guidance of the “Four Orientations” of scientific and technological innovation and with the comprehensive advancement of the “Beautiful China”

strategy, JIPB will live up to its mission and set sail again!

A Path of Excellence for the Journal of Integrative Plant Biology Benchmarking with Internationally Renowned Journals

HE Ping, TAN Jingjing, LIU Guojun

Center for Documentation and Information, Institute of Botany, Chinese Academy of Sciences, Xiangshan Nanxincun 20, Beijing 100093, China

Abstract: [Purpose] Journal of Integrative Plant Biology (hereinafter referred to as JIPB) aims to explore strategies and measures for catching up with and surpassing internationally renowned botanical journals through benchmarking, providing reference for China to accelerate the construction of world-class STM journals. [Methods] Comparative data analysis and case analysis were used in this study. Using VOSviewer software, we constructed keyword co-occurrence network maps. By benchmarking against the internationally renowned Journal of Experimental Botany (hereinafter referred to as JXB) in plant sciences, we analyzed key bibliometric indicators of both journals, including impact factor, total citations, international paper ratio, journal citation indicator, author distribution, disciplinary coverage, annual publication volume, and top-tier papers. [Findings] Since receiving funding from the “Excellence Action Plan for China STM Journals” (hereinafter “Excellence Plan”), JIPB has significantly narrowed the gap and partially surpassed JXB through measures such as deep involvement of leading domestic and international scientists in editorial operations, publication of major achievements with original innovation, establishment of a professional journal management system, and provision of efficient, high-quality publishing services. [Conclusions] Under the Excellence Plan’s support and using internationally renowned botanical journals as benchmarks, JIPB has continuously improved its academic level and international influence. Its international development strategies and editorial practices represent beneficial attempts at building excellent journals, charting an exemplary path for China to develop world-class scientific journals.

Keywords: Excellence Action Plan for China STM Journals; international development; performance analysis; Journal of Integrative Plant Biology

Author Contributions:

HE Ping: Conceptualized the research, designed the framework, collected and organized literature, wrote and revised the manuscript;

TAN Jingjing: Retrieved, collected, and analyzed data, revised the manuscript;

LIU Guojun: Retrieved and analyzed data.

References:

[1] Zhang Yuzhuo: Steady progress in the digitalization and platformization of

China's scientific journals [EB/OL]. China News Service, (2022-08-26) [2023-03-01]. <http://www.chinanews.com.cn/cj/2022/08-26/9837419.shtml>.

[2] China Association for Science and Technology. Four ministries jointly issued “Opinions on Deepening Reform to Cultivate World-Class Scientific and Technological Journals” [EB/OL]. (2019-08-16) [2023-03-02]. https://www.cast.org.cn/art/2019/8/16/art_{{79}}_{{100359}}.html.

[3] China Association for Science and Technology Department of Academic Affairs. Work exchange and promotion meeting for Excellence Action Plan for China STM Journals held in Beijing [EB/OL]. (2021-04-21) [2023-03-02]. https://www.cast.org.cn/art/2021/4/21/art_{{79}}_{{153044}}.html.

[4] He Ping, Cui Jinzhong. Inheriting the pioneering spirit to create excellent journals—Achieving leapfrog development of Journal of Integrative Plant Biology [J]. *Acta Editologica*, 2008, 20(1): 54-56.

[5] Cui J, He P, Liu F, et al. 60 years of development of the Journal of Integrative Plant Biology [J]. *Journal of Integrative Plant Biology*, 2012, 54(10): 682-702.

[6] Chen Lingfeng, He Ping. Journal of Integrative Plant Biology promoting internationalization and quality editorial practices [J]. *Chinese Journal of Scientific and Technical Periodicals*, 2013, 24(4): 761-764.

[7] Liu Chunming, He Ping. How China's classic journals go global—Journal of Integrative Plant Biology. In: Pan Jiaofeng, ed. *Exploring the Path to Building Excellent International Scientific Journals* [M]. Shanghai Scientific and Technological Literature Press, 2013, 66-77.

[8] Zheng Jinwu. Journal of Integrative Plant Biology: Exploring the path of academic journal internationalization [N]. *China Science Daily*, (2020-12-15) [2023-03-02]. https://www.sohu.com/a/438305167_{{120873446}}.

[9] Excellence Action Plan for China STM Journals achieves remarkable results: 29 journals enter top 10% internationally in disciplinary ranking [EB/OL]. Xinhua News Agency, (2021-04-21) [2023-03-02]. http://www.gov.cn/xinwen/2021-04/21/content_{{5601202}}.htm.

[10] Ding Zuoqi. Evaluation of international influence of Excellence Action Plan journals based on Dimensions platform [J]. *China Publishing Journal*, 2020(20): 3-8.

[11] Ding Zuoqi, Li Chuwei. Multi-dimensional evaluation and development trend study of leading journals in Excellence Action Plan [J]. *Chinese Journal of Scientific and Technical Periodicals*, 2021, 32(9): 1201-1208.

[12] Li Chuwei, Ding Zuoqi. Characteristics analysis of top 100 Altmetrics-scored articles from Excellence Action Plan funded journals [J]. *Science-Technology & Publication*, 2020(10): 135-140.

[13] Yang Baohua, Zheng Yutong. Characteristic data analysis and development suggestions for English journals selected in Excellence Action Plan [J]. *Chinese*

Journal of Scientific and Technical Periodicals, 2020, 31(12): 1528-1534.

[14] Zhang Houquan, Li Siyu, He Jingfeng. Analysis of strong journal construction effectiveness of Chinese STM journals in the past decade [J]. Chinese Journal of Scientific and Technical Periodicals, 2022, 33(8): 1133-1146.

[15] Gao Yuan, Xu Xiuling, Zhang Bingzi, et al. Improving quality and increasing quantity for excellent development: Editorial practice and progress of National Science Review [J]. Chinese Journal of Scientific and Technical Periodicals, 2022, 33(2): 215-221.

[16] Guo Siqu, Guo Chenzi, Zhao Yang, et al. Light: Science & Applications' excellence plan construction path benchmarking world-class optics journals [J]. Chinese Journal of Scientific and Technical Periodicals, 2021, 32(7): 895-903.

[17] JIPB News and Views. JIPB papers selected for global top 1% highly cited papers and top 1‰ hot papers by ESI [EB/OL]. (2021-07-16) [2023-04-03]. <https://www.jipb.net/EN/news/news514.shtml>

[18] Wang W, Feng B, Zhou JM, et al. Plant immune signaling: Advancing on two frontiers [J]. Journal of Integrative Plant Biology, 2020, 62(1): 2-24.

[19] Chen K, Li GJ, Bressan RA, et al. Abscisic acid dynamics, signaling, and functions in plants [J]. Journal of Integrative Plant Biology, 2020, 62(1): 25-54.

[20] Yu J, Kang L, Li Y, et al. RING finger protein RGLG1 and RGLG2 negatively modulate MAPKKK18 mediated drought stress tolerance in Arabidopsis [J]. Journal of Integrative Plant Biology, 2021, 63(3): 484-493.

[21] Wang Z, Rong D, Chen D, et al. Salicylic acid promotes quiescent center cell division through ROS accumulation and down-regulation of PLT1, PLT2, and WOX5 [J]. Journal of Integrative Plant Biology, 2021, 63(3): 583-596.

[22] Zhao QQ, Lin RN, Li L, et al. A methylated-DNA-binding complex required for plant development mediates transcriptional activation of promoter methylated genes [J]. Journal of Integrative Plant Biology, 2019, 61(2): 120-139.

[23] Li Cuixia. Inheriting and pioneering to build an international first-class plant science journal—Interview with Dr. He Ping [J]. Chinese Journal of Scientific and Technical Periodicals, 2023, 34(4): 538-544.

Note: Figure translations are in progress. See original paper for figures.

Source: ChinaXiv — Machine translation. Verify with original.