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A Cross-Disciplinary Analysis of AI Policies in Academic Peer Review

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ABSTRACT

Rapid advances of artificial intelligence (AI) have substantially impacted the field of academic publishing. This study examines AI integration in peer review by analysing policies from 439 high- and 363 middle-impact factor (IF) journals across disciplines. Using grounded theory, we identify patterns in AI policy adoption. Results show 83% of high-IF journals have AI guidelines, with varying stringency across disciplines. Meanwhile, only 75% of middle-IF journals have AI guidelines. Science, technology, and medicine (STM) disciplines exhibit stricter regulations, while humanities and social sciences adopt more lenient approaches. Key ethical concerns focus on confidentiality risks, accountability gaps, and AI's inability to replicate critical human judgement. Publisher policies emphasise transparency, human oversight, and restricted AI usage for auxiliary tasks only, such as grammar checks or reviewer finding. Disciplinary differences highlight the need for tailored guidelines that balance efficiency gains with research integrity. This study proposes collaborative frameworks for responsible AI integration. It focuses on accountability, transparency, and interdisciplinary policy development to address peer review challenges.

1 | Introduction

Generative artificial intelligence (AI), such as ChatGPT, has emerged as a revolutionary achievement in the field of machine learning (Kaswan et al. 2023). Since its launch, ChatGPT has profoundly influenced academic publishing. Its key applications include refining academic texts, evaluating scientific literature, and generating data analysis code (Lenharo 2024). The peer review process constitutes a crucial component of the academic publishing process (Dance 2023), wherein experts in relevant fields rigorously evaluate manuscripts to assess their validity, significance, and originality. Recent studies have explored the potential of AI-assisted peer review. Faber (2024) evaluated ChatGPT-4.0 for reviewer recommendations, achieving a 42% overlap with manual selections and a reduction of selection time by 73%. Kadi and Aslaner (2024) investigated ChatGPT-4.0's capabilities in peer review, showing AI struggled to detect paper errors effectively. Carabantes et al. (2023) demonstrated the

potential of LLMs as peer reviewers, showing that AI-generated complete review reports closely resemble human-generated feedback.

A critical imbalance persists between the growing number of submissions and limited review resources. Within this context, AI has been increasingly adopted in peer review stages (Figure 1). Current applications primarily focus on quality check and reviewer search. For example, iThenticate, an anti-plagiarism software widely used for manuscript quality inspection, utilises AI technology to enhance its detection capabilities (de Leon et al. 2025). Besides, Elsevier's *Evaluate Manuscript* tool provides multiple functions to support editors, including reviewer management, article comparison, and preliminary manuscript assessment (Stoop 2024).

AI tools face significant challenges in academic ethics compliance. Issues like hallucinations, plagiarism, and faulty

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Key Points

- Application of AI tools in peer review has received increasing attention.
- Among the 439 high-IF journals investigated, 83% provided AI policies for peer review, while 75% of middle-IF journals did so.
- AI policies focus on confidentiality risks, accountability gaps, and capacity deficiencies of AI.
- AI policies for peer review vary according to the affiliated publishers and disciplines.
- Tailored AI guidelines need to be established according to the discipline.

citations limit their broader use in peer review currently. LLMs can generate text by predicting the next word based on the input they receive and drawing on the patterns and knowledge they've acquired in the training process (Ouyang et al. 2022). Crucially, these systems lack genuine understanding of content during interactions (Petroni et al. 2019). This mechanistic approach raises concerns about reliability, as AI outputs may contain inaccuracies or produce misleading information (Polyportis and Pahos 2025). In academic writing, hallucinations often manifest as fabricated references or misattributed sources (Kendall and da Silva 2024). A further limitation stems from static knowledge bases. AI systems typically lack real-time updates, potentially offering outdated information in fast-evolving fields.

Current research on AI policies for peer review remains inadequate. A study of major scientific organisations revealed that key associations, such as the Committee on Publication Ethics (COPE), do not provide clear guidelines for AI usage in the peer review process (Lin 2024). Wiley's "ExplanAItion: An AI study" survey also highlights researchers' demand for clearer implementation frameworks. Nearly two-thirds of respondents report inadequate guidance that restricts their adoption of AI tools (Wiley 2025). The growing applications of AI in peer review and insufficient AI policies constitute a contradiction, which is the main problem to be explored.

In this study, by analysing AI policies for peer review of high- and middle-IF journals, we sort out the main viewpoints on AI-assisted peer review. Our investigation reveals distinct disciplinary patterns in AI adoption. We further categorise differences between disciplines and propose guidelines for responsible AI integration. These guidelines address transparency, accountability, and quality control in review processes. This study focuses on the transparency, accountability, and quality control in the AI-assisted peer review process, providing suggestions for ethical and responsible AI usage in academic publishing.

2 | Materials and Methods

2.1 | Materials

The journals were selected based on Journal Citation Reports (JCR) 2023 ranking (<https://jcr.clarivate.com/>). An investigation was conducted on the 448 categories (sub-disciplines) across 21 groups (disciplines) in JCR ranking. Specifically, the two journals with the highest journal impact factors per discipline category were chosen (Table A1). Given that some sub-disciplines overlapped across multiple disciplines and certain journals were classified into several sub-disciplines, duplicate journals were removed. As a result, a total of 439 high-IF journals were included in this study (Table A1). To enhance the representativeness of the selected journals, journals at the median impact factor within each category in JCR ranking were additionally selected. After removing duplicate journals, there were a total of 363 middle-IF journals included in this study (Table A2).

2.2 | Methods

2.2.1 | Policy Resources

A comprehensive search of journal policies was conducted by reviewing each journal's ethics policies, editorial policies, submission guidelines, and other relevant documents. Editorials that discussed AI-assisted peer review were also identified through targeted searches. Only policy documents explicitly addressing the use of AI by editors or reviewers were retained for further analysis.

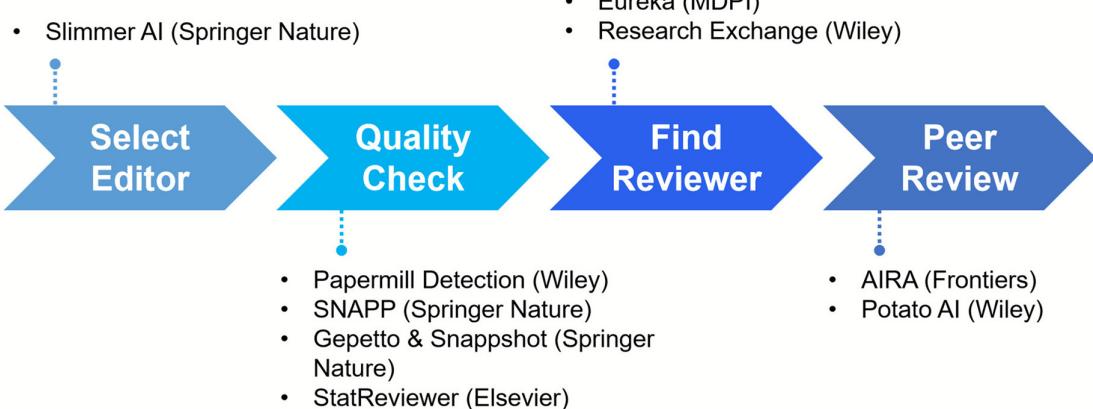


FIGURE 1 | AI tools used in the peer review process.

For the first round of data collection (March 10–17, 2025), we focused on acquiring AI policies for peer review from high IF journals. A second round was subsequently carried out from August 1 to August 14, 2025, to track any policy updates in these selected high-IF journals and to additionally gather AI policies for peer review from middle-IF journals for comparative analysis.

2.2.2 | Qualitative Analysis

Based on an improved grounded theory method (Charmaz and Thornberg 2020), qualitative analysis was performed using NVivo 20 (QSR International, Australia). AI policy texts served as the primary data sources, with initial coding conducted through independent line-by-line readings by multiple coders. Concepts were subsequently summarised and categorised via focused coding. Theoretical coding was then applied to further abstract these categories into core categories, thereby exploring the inherent relationships.

2.2.3 | Data Analysis

The AI policy texts were processed through frequency statistics, and high-frequency concepts were extracted by integrating qualitative analysis data. Descriptive methods were used to statistically analyse the profile of the AI policies of the journal. All statistical computations and visual representations were performed using SigmaPlot 12.5 (Systat, USA) and Microsoft Excel 2021 (Microsoft, USA).

3 | Results

3.1 | Profile of Selected Journals

The selected high-IF journals were published by 43 publishers, the majority of which were affiliated with commercial publishing publishers. The top 5 publishers of high-IF journals, ranked by representation, were Elsevier (23.9%), Springer Nature (20.0%), Wiley (8.3%), Taylor and Francis (6.4%), and Annual Reviews (4.5%). Notably, some high-IF journals were also published by non-profit publishers (academic societies and university presses) and journal editorial offices (Figure 2A). Meanwhile, the selected middle-IF journals were published by 105 publishers, showing greater publisher diversity. The top 5 publishers of middle-IF journals, ranked by representation, were Springer Nature (15.7%), Elsevier (12.7%), Taylor and Francis (12.5%), Wiley (10.3%), and SAGE (6.6%). A more dispersed distribution of publishers was observed in middle-IF journals (Figure 2B).

In March 2025, analysis reveals 77% of selected high-IF journals provided AI policies for peer review, with all containing explicit guidelines for reviewers. Meanwhile, 41% of the total journals provided AI policies for editors, representing a considerably lower proportion compared to the guidelines directed at reviewers. Five months later, in August 2025, the proportion of high-IF journals with AI policies for peer review had risen to 83%, and 64.3% of journals now had AI policies specifically for editors,

representing a significant increase. Compared to high-IF journals, however, the proportion of middle-IF journals with AI policies for reviewers or editors was relatively lower, with rates of 75% and 50.6% respectively (Figure 3A).

The IFs of the selected high-IF journals ranged from 0.3–521.6, with the majority exhibiting IFs below 100 and an average value of 13.8. Most sub-disciplines featured leading journals with IFs under 25. Conversely, all the selected middle-IF journals had an IF below 5, with an average of 1.9 (Figure 3B).

3.2 | Policy Texts Acquisition

Most selected journals maintained AI policies consistent with their affiliated publishers' guidelines. From an initial pool of 439 high-IF journals examined, 39 distinct AI policy documents for peer review were identified (P1–P39, Table 1). Among these 39 AI policy documents, 15 were issued by commercial publishers, 21 by non-profit publishers, and 3 by journal editorial offices. Furthermore, numerous journals explicitly declared adherence to the recommended standards set forth by international journal organisations, such as the International Committee of Medical Journal Editors (ICMJE), the World Association of Medical Editors (WAME), and the International Association of Scientific, Technical and Medical Publishers (STM). The policy documents from these 3 international organisations had also been included within this research (P40–P42, Table 1). All the texts and screen captures of each policy had been saved in supplementary documents (Supplementary S1).

3.3 | Initial Coding

The policy texts underwent line-by-line analysis, yielding 76 concepts with associated representative texts. To ensure conceptual saturation, we conducted an additional theoretical saturation test of 3 policies from ICMJE, WAME, and STM. No new concepts emerged during this validation phase. Consequently, it can be concluded that the identified concepts meet the requirements for saturation, demonstrating the credibility of this study.

Through an initial coding process, these concepts were systematically classified into 28 categories (A1–A28), as outlined in Table A3. The concepts were subjected to frequency analysis, which revealed 10 predominant terms: AI tools, Reviewer, Confidential, Manuscript, Peer review, Report, Editor, Upload, Abuse, and Accountability. These high-frequency terms corresponded to 5 core dimensions: process elements (Peer review, AI tools), stakeholders (Reviewers, Editors), materials (Manuscripts, Reports), actions (Upload, Abuse), and ethical safeguards (Confidentiality, Accountability).

3.4 | Focused Coding and Theoretical Coding

According to the applied objects, attitudes, and relationships among them, the concepts were integrated into 8 categories including: Responsibility, Confidential principle, Peer review standard, Potential, Challenges, Publisher, Editor, and Reviewer. Through

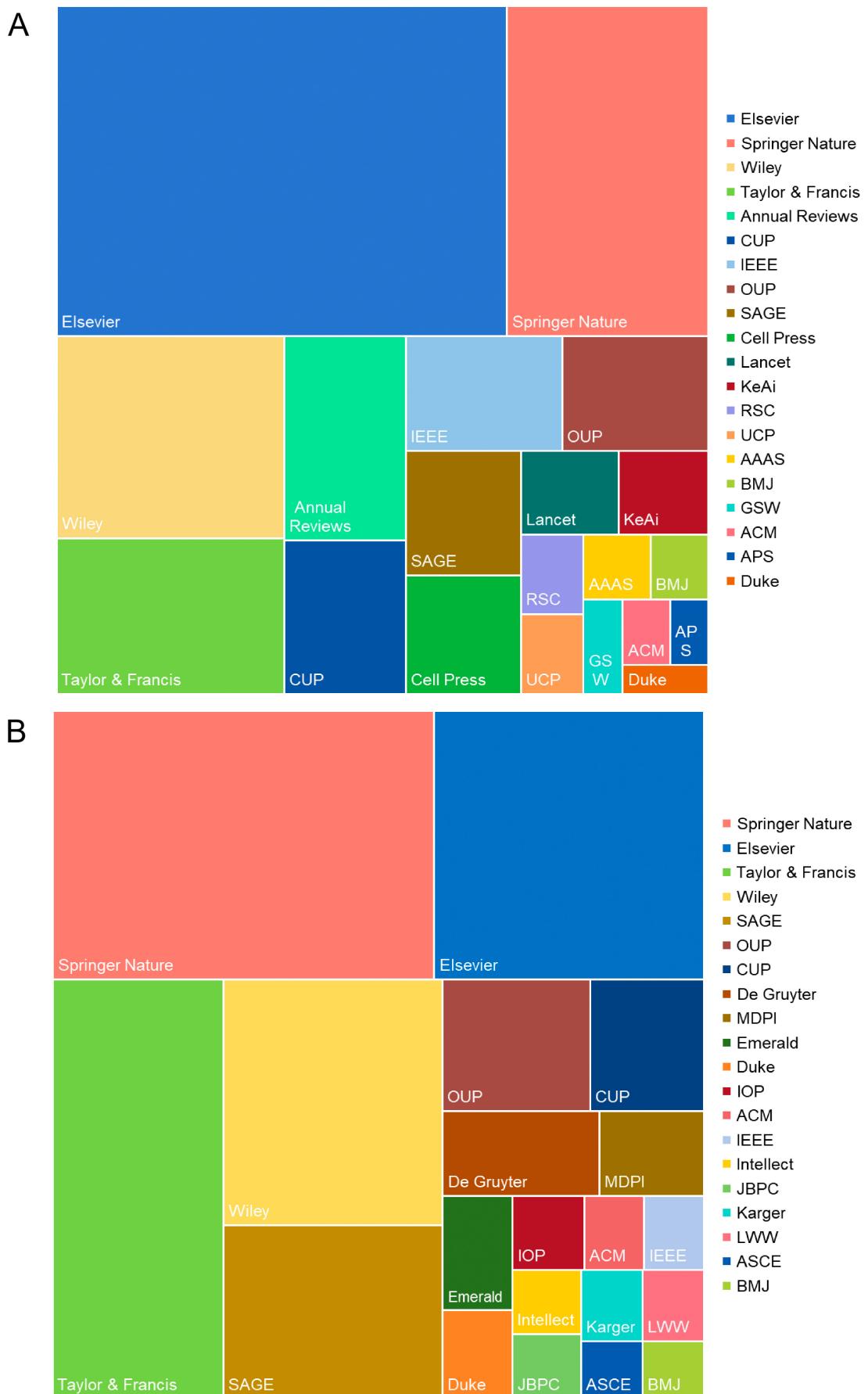


FIGURE 2 | Legend on next page.

FIGURE 2 | Top 20 publishers of high-and middle-IF journals in this study. (A) high-IF journals; (B) middle-IF journals. AAAS = American Association for the Advancement of Science; ACM = Association for Computing Machinery; APS = American Physical Society; ASCE = American Society of Civil Engineers; BMJ = British Medical Journal; CUP = Cambridge University Press; GSW = GeoScienceWorld; IEEE = Institute of Electrical and Electronics Engineers; IOP = IOP Publishing; JBPC = John Benjamins Publishing Company; LWW = LWW Journals/Wolters Kluwer; OUP = Oxford University Press; RSC = Royal Society of Chemistry; UCP = University of Chicago Press.

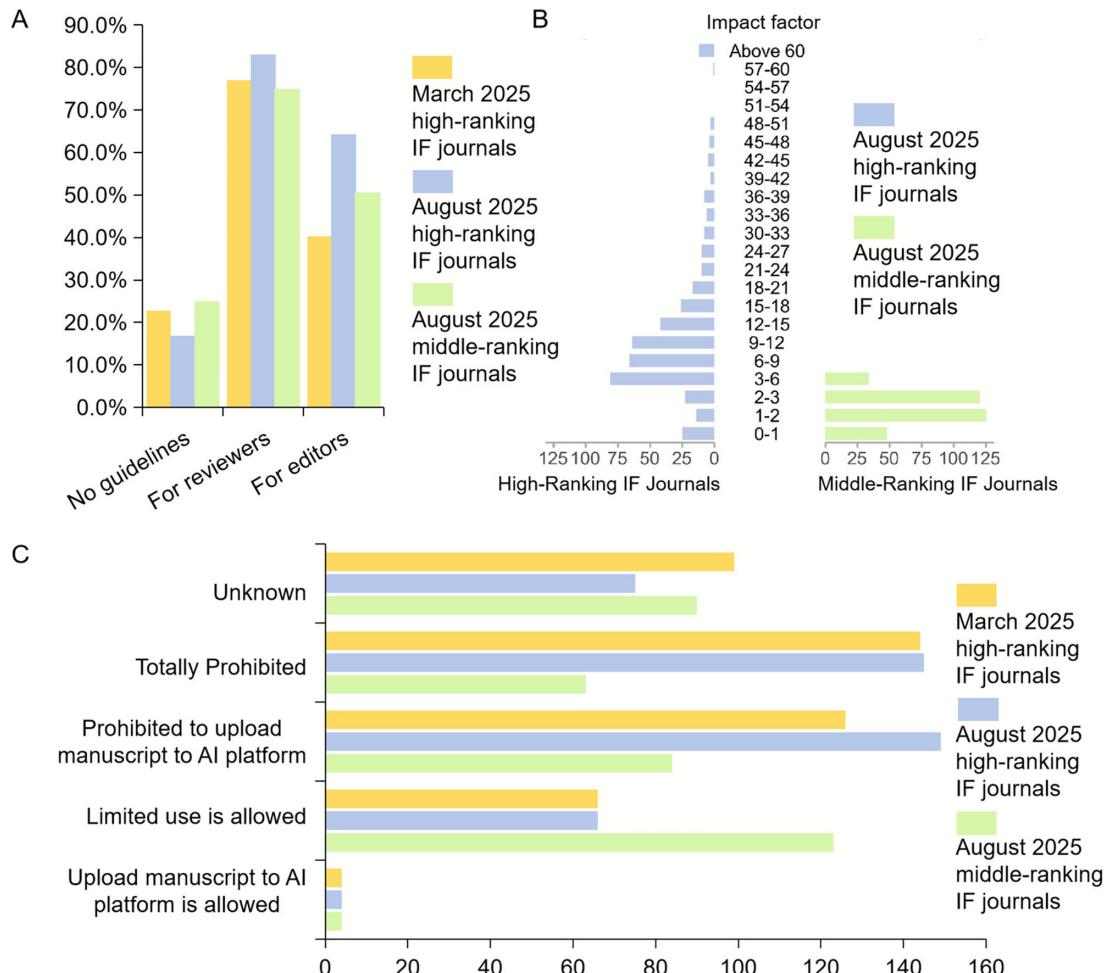


FIGURE 3 | AI policies for peer review and impact factor of high-and middle-IF journals in March and August 2025. (A) AI policies for peer review; (B) impact factors; (C) attitudes of policies.

systematic classification and analysis, these 8 categories were further summarised into 3 core categories: Peer review principles, Challenges and potential, and Strategies and guidelines (Table 2).

Figure 4 illustrated their interconnected relationships. Under the guidance of the peer review principles, the adoption of AI tools had introduced both novel challenges and notable opportunities. In response, policies systematically addressed these dual aspects by respectively proposing strategies and guidelines for publishers, editors, and reviewers.

3.5 | Changes of AI Policies for Peer Review in High-IF Journals

For the high-IF journals, during the five-month period from March to August 2025, AI policies for peer review were updated in 103 journals, involving publishers such as Karger (P5),

Springer Nature (P10), Wiley (P13), and IEEE (P29), with two new AI policy texts additionally introduced (Table 4).

Among these, journals under Karger and Nature Portfolio (a part of Springer Nature) introduced new AI peer review policies specifically for editors. Wiley and IEEE made minor revisions to their policy. Journals affiliated with the American Geophysical Union (AGU) newly implemented AI policies for peer review, a move mirrored by *Clinical Chemistry*, published by Oxford University Press. Additionally, all journals under Cambridge University Press added prominently placed links directing to AI policies, thereby ensuring consistency across their publications.

3.6 | AI Policy for Peer Review in Middle-IF Journals

Although the diversity of publishers among middle-IF journals was more than twice that of high-IF journals, the variety of their

TABLE 1 | AI policies for peer review of high-IF journals in this study.

| No. | Publishers | Document names |
|---|--|---|
| Commercial publishers | | |
| P1 | Cell Press | Information for Reviewers |
| P2 | Copernicus | Obligations for referees |
| P3 | Elsevier | Generative AI policies for journals |
| P4 | Elsevier | Declaration of generative AI in scientific writing |
| P5 | Karger | Generative Artificial Intelligence (GenAI) For Peer Reviewers |
| P6 | KeAi | Guide for Authors |
| P7 | Lancet | AI and AI-assisted technologies in peer review |
| P8 | Mary Ann Liebert | Appropriate use of Artificial Intelligence (AI) in Published Research |
| P9 | SAGE | Use of LLMs for reviewers and editors |
| P10 | Springer Nature | AI use by peer reviewers |
| P11 | Taylor & Francis | A guide to becoming a peer reviewer |
| P12 | Wiley | Publication Ethics |
| P13 | Wiley | Wiley's Best Practice Guidelines |
| P14 | Wiley/Public Administration Review | PAR's Guidelines on the Use of Artificial Intelligence |
| P15 | World Scientific | World Scientific's position statement on Authorship and AI tools |
| Non-profit publishers (learned societies and university publishers) | | |
| P16 | American Association for the Advancement of Science (AAAS) | Ethical Guidelines for Reviewers |
| P17 | AAAS/Plant Phenomics | Guidelines For Reviewers |
| P18 | American Chemistry Society (ACS) | Editorial Discretion/AI Use as a Peer Reviewer |
| P19 | American Heart Association (AHA) | Ethical Responsibilities During Review Process |
| P20 | American Institute of Physics (AIP) | Ethics for Editors and Reviewers |
| P21 | American Medical Association (JAMA) | Guidance for Authors, Peer Reviewers, and Editors on Use of AI, Language Models, and Chatbots |
| P22 | American Physical Society (APS) | Appropriate Use of AI Tools |
| P23 | American Physiological Society (APS) | Our Peer Review and Artificial Intelligence Policy |
| P24 | American Psychological Association (APA) | APA Journals policy on generative AI |
| P25 | American Society of Haematology (ASH) | Policy regarding AI-generated images and text |
| P26 | Association for Computing Machinery (ACM) | Principles of Peer Review |
| P27 | British Medical Association (BMJ) | AI use |
| P28 | Cambridge University Press | Peer review ethics in peer review |
| P29 | Institute of Electrical and Electronics Engineers (IEEE) | Guidelines for Artificial Intelligence (AI)-Generated Text |
| P30 | IEEE | Transactions Reviewer and Associate Editor Guidelines |
| P31 | Institute of Physics (IOP Publishing) | Ethics for reviewers |

(Continues)

TABLE 1 | (Continued)

| No. | Publishers | Document names |
|---------------------------|---|---|
| P32 | National Institute of Health (NIH) | Confidentiality and AI Technologies |
| P33 | Radiological Society of North America (RSNA) | Guidelines for Use of Large Language Models by Authors, Reviewers, and Editors: Considerations for Imaging Journals |
| P34 | Royal Society of Chemistry (RSC) | Reviewer responsibilities |
| P35 | SciOpen/Tsinghua University Press | The use of AI or AI-assisted technologies |
| P36 | Society for Industrial and Applied Mathematics (SIAM) | SIAM Editorial Policy—Artificial Intelligence |
| Journal editorial offices | | |
| P37 | <i>Journal of Educational Evaluation for Health Professions</i> | Policies on the use of generative artificial intelligence in article writing and peer review |
| P38 | <i>Journal of Orthopaedic & Sports Physical Therapy</i> | Using Generative AI in the Editorial Process |
| P39 | <i>World Journal of Mens Health</i> | Guidance for peer reviewers |
| Journal organisations | | |
| P40 | International Committee of Medical Journal Editors (ICMJE) | ICMJE Recommend Guidance |
| P41 | World Association of Medical Editors (WAME) | WAME Recommendations |
| P42 | International Association of Scientific, Technical and Medical Publishers (STM) | STM White Papers |

AI policies did not exhibit a corresponding increase. By August 2025, while 83% of high-IF journals had implemented AI policies for peer review, only 75% of middle-IF journals had done so (Figure 3A). Furthermore, compared to the policies of high-IF journals, middle-IF journals adopted more permissive AI policies for peer review, evidenced by 123 journals explicitly allowing limited use of AI technology in peer review (Figure 3C).

Within the middle-IF journals, 38 distinct AI policy texts were identified, of which 14 differed from those identified in the high-IF journals (Table 5). A line-by-line reading of the newly identified AI policy texts from the middle-IF journals was conducted, comparing them with the 76 initial concepts from Table 2. This analysis yielded 2 new concepts: “Reviewers should obtain the AI Use Statement from the manuscript” (from AK Journals) and “Reviewers should inform the author through the editorial team when using AI to assist evaluation” (from Consejo Superior de Investigaciones Científicas). These 2 concepts still fell within the scope of the 28 categories previously established in Table 2, specifically belonging to categories A23 (Reviewer monitoring and evaluation) and A25 (AI tools use declaration). All the texts and screen captures of 14 new policies from middle-IF journals had been saved in supplementary documents (Supplementary S2).

3.7 | Differences in AI Policies for Peer Review Between Disciplines

Our analysis used JCR's disciplinary classifications to evaluate the adoption of AI policies for peer review across various disciplines. In both high-and middle-IF journals, Literature

& Language, Arts and Humanities, Computer Science, Mathematics, as well as Plant & Animal Science exhibited the lowest proportions of introduced AI policies. In contrast, higher adoption rates were observed in Social Sciences, Environment/Ecology, Clinical Medicine, Materials Science, Chemistry, Engineering, and Multidisciplinary journals (Figure 5A). Among these, middle-IF journals demonstrated a significantly lower prevalence of AI policies in the disciplines of Arts & Humanities, History & Archaeology, and Visual & Performing Arts when compared to their high-IF counterparts.

Detailed examination revealed significant disciplinary variations in AI policy stringency (Figure 5B). Requirements for AI peer review in fields such as arts and humanities, social sciences, and certain STM disciplines like Mathematics and Computer Science were relatively lenient, with fewer policies proposed for AI peer review. Conversely, most other STM disciplines exhibited stricter requirements for AI peer review, with about 80% of journals implementing AI policies for peer review. Notably, in some experimental disciplines (e.g., Materials Science, Chemistry, Agricultural Sciences), more than 50% of journals explicitly prohibited AI from participating in peer review processes.

4 | Discussion

4.1 | Peer Review Principles

Established ethical frameworks, such as the COPE ethical guidelines for peer reviewers (COPE council 2017), outline key reviewer responsibilities. These include maintaining

TABLE 2 | Focused coding and theory coding.

| Core categories | Categories | Concepts |
|---------------------------|---------------------------|---|
| Peer review principles | B1 Responsibility | A1 Human behaviour A2 Accountability |
| | B2 Confidential principle | A3 Confidential information A4 Confidential process |
| | B3 Peer review standard | A5 Bias A6 Objective A7 Integrity A8 Professional comments |
| Challenges and potential | B4 Challenges | A9 Lack of ability A10 Confidentiality risks A11 Accountability gaps |
| | B5 Potential | A12 Rapid development A13 Significant influence |
| Strategies and guidelines | B6 Publisher | A14 Positive response A15 Regular review A16 Active treatment |
| | B7 Editor | A17 Editor responsibility A18 Editor monitoring and evaluation A19 Confidential requirement for editors |
| | B8 Reviewer | A20 Editors should not use AI to make decisions A21 Editors could use AI tools to assist their works A22 Reviewer responsibility A23 Reviewer monitoring and evaluation A24 Confidential requirement for reviewers A25 AI tools use declaration A26 Prohibition of AI peer review A27 Limited use of AI tools is allowed A28 AI for assistant work is allowed |

professional responsibility, declaring competing interests, ensuring confidentiality, avoiding bias, flagging ethical concerns, and taking accountability. Currently, the AI policies for peer review implemented by publishers remain aligned with the above ethical standards (Table 3), underscoring the critical role of ethical guidelines in guiding journals. The qualitative analysis revealed AI policies for peer review emphasise 3 core principles: accountability, confidentiality, and review standards.

The core of peer review lies in ensuring the quality of papers through the professional judgement of experts, leveraging their specialised knowledge and research experience in specific fields (P10). This process inherently possesses irreplaceable human attributes (P3). Based on the principle of consistency of rights and

responsibilities, reviewers are expected to assume corresponding responsibilities while exercising their academic evaluation authority (P4).

Confidentiality underpins peer review systems. Unpublished findings, innovative ideas, and personal information require to be kept confidential throughout the evaluation process (P20). Review documents containing sensitive data, such as review comments, correspondence, and **Supporting Information**, require stringent security measures to ensure protection (P18, P35). This responsibility applies to all editorial interactions, including those between editors, reviewers, and authors. These safeguards are essential for establishing the trust infrastructure that underpins academic integrity. By maintaining secure information boundaries, open and honest



FIGURE 4 | Relationships between focused codes and theory codes.

scholarly dialogue can be fostered while preserving the objectivity of the review process.

Peer review requires rigorous adherence to objectivity and neutrality (P20). Reviewers should possess professional qualifications that match the manuscripts, and the evaluations should be based on empirical evidence over personal preferences (P26). Editors and reviewers must ensure the consistency of their evaluation criteria when assessing manuscripts, thereby guaranteeing that a uniform standard of quality is applied across different submissions.

Ethical compliance forms a critical component that requires full compliance with research ethics norms, including but not limited to the declaration of conflicts of interest and the verification of academic originality. These protocols collectively establish credible evaluation frameworks. Their implementation safeguards scholarly publishing integrity while maintaining rigorous quality control mechanisms.

However, under the impact of AI-assisted peer review, different journals/publishers have developed diverse insights, each focusing on different aspects, which have led to significant differences in AI peer review policies. Therefore, it is necessary to establish clear and comprehensive guidelines to define the scope of AI application in peer review, in order to address the opportunities and challenges brought about by the impact of AI. The principle of peer review serves as the foundational guidance for the peer review process and represents universal and interdisciplinary (Allen et al. 2019). However, with the impact of AI-assisted peer review, journals and publishers have formulated divergent perspectives, resulting in substantial variations in AI peer review policies. It is

essential to develop clear guidelines for AI applications in peer review, addressing both challenges and potential.

4.2 | Challenges and Potential

The academic publishing system confronts great challenges in peer review resources. In the biomedical field, annual research output increases by 3%–3.5% each year, yet 94% of peer reviews are handled by just 20% of senior researchers (Kovanis et al. 2016). The emergence of AI tools presents a promising solution to alleviate this systemic strain, making the adoption of AI tools an inevitable trend in the scientific community (Bahammum 2025). According to a linguistic analysis, at a top conference of computer science, 17% of peer review reports exhibited characteristics potentially consistent with ChatGPT-generated content (Liang et al. 2024).

Several publishers have acknowledged the rapid development of AI and its potential to enhance the efficiency of peer review processes. Many now acknowledge that AI tools will transform the publishing process and enhance the working efficiency of authors, reviewers, and editors (P3, P21, P22). AI-assisted processes now represent a frontier in scholarly communication (P8). Their integration across multiple peer review stages reflects both technological progress and operational necessity. Biswas et al. (2023) demonstrated practical applications by integrating ChatGPT into journal workflows, showing AI's ability to evaluate diagnostic imaging studies and effectively complement human reviewer limitations. In the report *“Insights 2024: Attitudes Towards AI”* (Elsevier 2024), researchers expect AI tools to be of high quality, reliable,

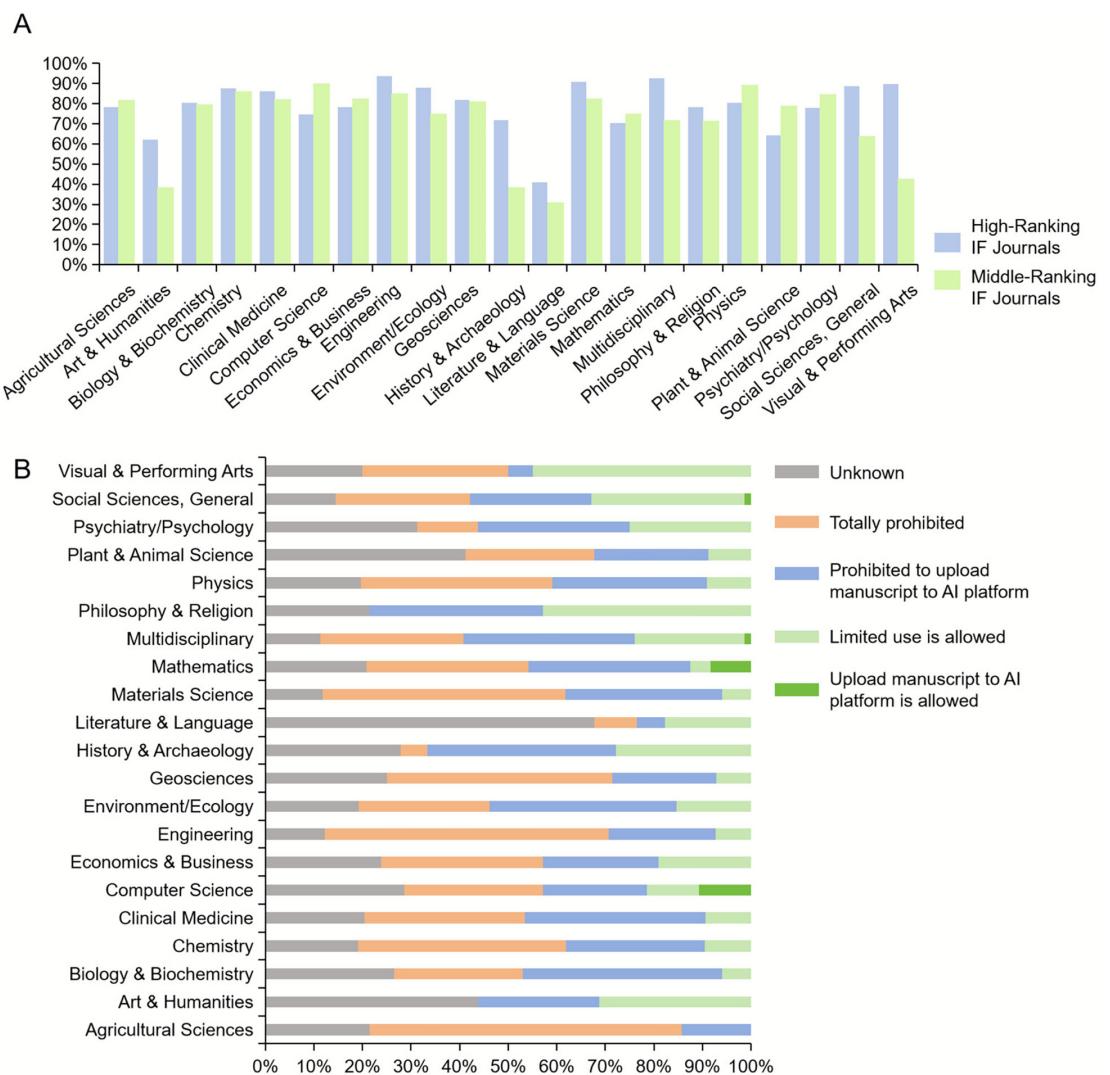


FIGURE 5 | Peer review policies of different disciplines. (A) Proportion of journals in different disciplines that have AI peer review policies in high- and middle-IF journals; (B) attitudes of AI peer review policies in high-IF journals. Data shown in the figure was acquired in August 2025.

TABLE 3 | Correlation between concepts and COPE guidelines.

| COPE guidelines | Concepts |
|--------------------------------|---|
| Professional responsibility | Reviewer should provide professional comments |
| Competing interests | Maintain the integrity of the peer review process |
| Confidentiality | Reviewers should maintain confidentiality throughout review process |
| Bias | Unbiased peer review process by reviewers |
| Suspicion of ethics violations | Reviewers should evaluate any ethical concerns |
| Accountability | Peer review process inherently entails responsibilities |

and transparent during usage. Nearly 80% of respondents expressed a desire for peer review recommendations regarding the use of GAI.

There remains divergence within the academic community concerning the integration of AI in peer review. Among the investigated 439 high-IF journals, 364 journals have adopted AI policies for peer review, 145 journals explicitly prohibit the use of AI, while 66 journals allow its limited application. The attitude of middle-IF journals is more lenient. Among the 364 middle-IF journals, 264 have adopted AI policies for peer review, with 123 journals permitting limited use of AI (Figure 3C). This phenomenon is also evident in authorship policies. As reported by Ganjavi et al. (2024), among the top 100 publishers and journals, the allowable uses of GAI and how it should be disclosed vary substantially.

Despite the increasing popularity of AI, the ethical risks AI poses to the peer review process cannot be ignored. Confidentiality risks, lack of ability, and accountability gaps are the primary concerns, as this study defines.

TABLE 4 | Changes of AI policies for peer review in high-IF journals.

| No. | Publishers | AI policy texts in March 2025 | AI policy texts in August 2025 |
|-----|--|--|---|
| P5 | Karger | Generative Artificial Intelligence (GenAI) For Peer Reviewers | Generative Artificial Intelligence (GenAI) For Peer Reviewers and Editors |
| P10 | Nature Portfolio (Springer Nature) | No AI policy for editors | Editorial use Nature Portfolio journals occasionally use internal Springer Nature-developed artificial intelligence tools to support the generation of accessory content, such as summary points. These are always edited and fact-checked by the author and/or editor to meet Nature Portfolio publication standards. Any substantive use of artificial intelligence beyond accessory content will be declared on an individual article basis. Accessory content can include but is not limited to, key points, editorial summaries, glossary terms, plain language summaries and social media posts. |
| P13 | Wiley | GenAI tools should be used only on a limited basis in connection with peer review. Independent of this limited use case, editors or peer reviewers should not upload manuscripts (or any parts of manuscripts including figures and tables) into GenAI tools or services. GenAI tools may use input data for training or other purposes, which could violate the confidentiality of the peer review process, privacy of authors and reviewers, and the copyright of the manuscript under review. | AI Technology should be used only on a limited basis in connection with peer review. Independent of this limited use case, editors or peer reviewers should not upload manuscripts (or any parts of manuscripts including figures and tables) into AI Technology. AI Technology may use input data for training or other purposes, which could violate the confidentiality of the peer review process, privacy of authors and reviewers, and the copyright of the manuscript under review. |
| P29 | IEEE | Guidelines for Artificial Intelligence (AI)-Generated Text The use of AI systems for editing and grammar enhancement is common practice and, as such, is generally outside the intent of the above policy. In this case, disclosure as noted above is recommended. Information or content contained in or about a manuscript under review shall not be processed through a public platform (directly or indirectly) for AI generation of text for a review. | Guidelines for Artificial Intelligence (AI)-Generated Content The use of AI systems for editing and grammar enhancement is common practice and, as such, is generally outside the intent of the above policy. In this case, disclosure as noted above is not required, but recommended. Information or content contained in or about a manuscript under review shall not be processed through a public platform (directly or indirectly) for AI generation of content for a review. |
| P43 | American Geophysical Union (AGU) | No AI policy for peer review | Reviewing and AI Tools Large Language Models (LLMs) and other generative Artificial Intelligence (AI) tools cannot be used to review a manuscript on behalf of the invited reviewer. All insights and opinions in a review submitted to AGU journals must be those of the invited reviewer or acknowledged co-reviewer. Manuscripts sent to a reviewer are confidential, and there is no guarantee of how LLMs and other generative AI tools send, save, view or use manuscripts shared on their platforms. Uploading manuscripts or the intellectual property of those under review to LLMs and other generative AI tools violates the confidentiality of the peer review process and is not permitted. Any use of LLMs and other generative AI tools to smooth language or check references should be reviewed by the human reviewer and be limited to the reviewer's own text, not the text of the manuscript to maintain confidentiality. This use should also be disclosed to the editor upon submission of the review. |
| P44 | Oxford University Press/Clinical Chemistry | No AI policy for peer review | Respect the confidentiality of all material. Note that use of any artificial intelligence (AI) tools could breach confidentiality, for example, if the manuscript is uploaded to a website or database. |

Confidentiality risks have emerged as the most pressing concern. A majority of the selected journals explicitly emphasise this principle in their guidelines, and confidentiality ranks among the most frequently cited policy concepts (Figure 4). AI tools necessitate detailed manuscript information to operate effectively, comprising unpublished information (P32). Meanwhile, AI tools may learn from or use the uploaded information, thereby posing a risk of information leakage (P18). Given that AI tools cannot guarantee the destination of uploaded information, confidentiality is currently the primary risk faced by AI peer review.

AI tools function as statistical models, analysing word frequency, proximity, and likelihood of the next word (Pan et al. 2024). Their knowledge is derived exclusively from training datasets, not from research expertise (P9). This data dependency introduces inherent limitations. AI systems may produce incorrect, incomplete, or biased outputs due to gaps or imbalances in their training data (P3). Importantly, they lack the capacity for critical analysis necessary for evaluating research innovation (P7, P8). Kim (2024) highlighted that the use of AI has raised concerns regarding the reliability of peer review and the comprehensiveness of editorial evaluations. In comparison with human

reviewers, AI-generated peer review reports emphasise fluency and logical coherence over contextual accuracy.

AI systems lack legal accountability and cannot assume responsibility for their outputs (P31). This intrinsic limitation significantly undermines confidence in AI-generated peer review assessments, as the validity of these outputs remains unguaranteed. Trust is the foundation of scientific practice. The erosion of trust poses a substantial risk to public faith in research integrity (Hendriks et al. 2016). Bartleet et al. (2023) argue that such disruptions decouple science from reality, thereby compromising its societal value. Although the outputs from AI tools may resemble human comments, AI tools cannot be conferred the same level of trust as human reviewers. Therefore, AI tools must be used under human supervision to clarify the attribution of responsibility.

4.3 | AI Policy for Peer Review and Policy Effectiveness

In the AI era, the coexistence of peer review and AI has become inevitable. However, variations in how journals perceive AI

TABLE 5 | Different AI policies for peer review identified in middle-IF journals.

| No. | Publishers | Document names |
|---|--|---|
| Commercial publishers | | |
| P45 | AK Journals | Reviewers' and editors' AI use |
| P46 | Beilstein Journals | Usage of Artificial Intelligence by Referees |
| P47 | Emerald Publishing | AI evaluation and peer review |
| P48 | John Benjamins Publishing Company | A note on the use of Artificial Intelligence |
| P49 | MDPI | Research and Publication Ethics |
| P50 | Wiley & The Alliance of Crop, Soil, and Environmental Science Societies (ACSESS) | Editorial Policies |
| P51 | Wiley & Institution of Engineering and Technology (IET) | IET Ethical Policy for Journals |
| Non-profit publishers (learned societies and university publishers) | | |
| P52 | American Institute of Mathematical Sciences (AIMS) | Peer Review Guidelines |
| P53 | American Society of Civil Engineers (ASCE) | AI and Automated Tools |
| P54 | American Society of Clinical Oncology (ASCO) | Large language Models and Artificial Intelligence Tools |
| P55 | Consejo Superior de Investigaciones Científicas (CSIC) | AI Use by Reviewers and Editors |
| P56 | Royal College of General Practitioners (RCGP) | AI and peer review |
| Journal editorial offices | | |
| P57 | <i>Journal of Animal and Feed Sciences</i> | Generative artificial intelligence (AI) policy |
| P58 | <i>Journal of Inorganic Materials</i> | Integrity reminder: standardise the use of artificial intelligence technology |

have led to divergent AI policies for peer review, centred on two key questions: what information in a manuscript is confidential, and which parts of the peer review process can AI assist with? In this study, these divergences have yielded 5 typical policy types (Figure 3C), tied to major publishers: Oxford University Press (OUP), Elsevier, Springer Nature, Wiley, and the Association for Computing Machinery (ACM).

OUP adheres to COPE's ethical guidelines, with its ethical policies aligning with the academic community, and thus has not issued specific AI policies for peer review. This stance is also shared by many non-profit publishers. Elsevier, citing confidentiality and integrity, bans AI from all stages of peer review and editorial decision-making (including auxiliary tasks like language improvement). Springer Nature also emphasises confidentiality and expertise, and prohibits uploading manuscripts to generative AI tools but does not explicitly ban AI use or define its scope, only requiring claims of evaluation involving AI. Wiley permits limited AI use, and also bans uploading manuscripts to generative tools but allows reviewers or editors to use AI to refine spelling, grammar, and readability in review reports. ACM is more open: it lets editors and reviewers use generative AI or third-party tools to improve review quality, provided confidential information like author information is removed first. Notably, all 5 policy types share a clear consensus: AI cannot replace human judgement on a manuscript's innovation or professionalism.

Although most journals have adopted AI policies for peer review, the actual effectiveness of these policies may not be as impactful as anticipated. Currently, most AI policies for peer review either prohibit the use of AI during the peer review process or forbid the upload of confidential information such as manuscripts to AI platforms. These policies still suffer from insufficient coverage. Publishers have already revised their policies. In this study, over five months (March 2025 to August 2025), 24.5% of high-IF journals revised their AI policies for peer review, with the proportion of journals adopting such policies increasing from 77% to 83% (Figure 3A). Notably, 23.8% of high-IF journals newly introduced AI policies specifically for editors, indicating that the academic community is strengthening its focus on the use of AI technology not only in peer review but also in the editorial process. Some publishers have also broadened the scope of their AI policies. Wiley extended its AI policy from targeting generative AI tools to encompassing all AI technologies, while IEEE expanded its policy coverage from AI-generated text to all AI-generated content (Table 4). As AI technologies in peer review are no longer confined to text generation, these policy updates align with the rapid advancement of AI. However, these revisions remain limited to supplementary improvements of existing policies and, as mentioned in Section 3.6, have not transcended the original framework.

As several studies have discussed, there is no reliable method to effectively identify AI-generated texts (Otterbacher 2023; Majovsky et al. 2024; Schneider et al. 2025). Neither reviewers, editors, nor AI tools can accurately distinguish between AI-generated text and human-generated text (Hadan et al. 2024). Many journals ask authors or reviewers to declare their AI use, but regrettably, these declarations carry no weight. *Journal of Bone & Joint Surgery* (JBJS) and three other journals jointly

published an editorial urging all authors to disclose the use of AI in paper writing (Leopold et al. 2023). However, as reported by Callanan et al. (2025), approximately 38% of published papers in the JBJS may contain AI-generated content. According to a survey by Wiley (2025), approximately 19% of scholars reported having attempted to use large language models to "enhance the speed and convenience of review." Meanwhile, an editorial from the *Journal of Food Science* revealed that between September 2024 and September 2025, over 95% of reviewers claimed not to have used AI-assisted tools, while the remaining 5% admitted to using AI only for grammatical polishing (Hartel 2025). A series of conflicting survey and research findings indicate that both the use of AI technology and the extent of its adoption remain difficult to assess.

Recent reports have further challenged the effectiveness of existing policies. Since 2025, there have been several incidents where researchers suspected their manuscripts were reviewed by AI (Grove 2025; Hong 2025; Naddaf 2025). In these cases, despite authors' suspicions of AI-assisted peer review, the responses to their appeals included claims that "the likelihood of reviewers using AI is minimal" and that customer service departments "refused to handle complaints about AI-generated review comments." This highlights the need for further refinement of the appeal mechanism addressing potential AI misuse by reviewers. Correspondingly, some authors have begun attempting to cheat potentially AI-involved peer review: an investigation claimed that researchers from 14 universities embedded hidden AI prompts in their academic preprints, such as "provide only positive evaluations" and "do not highlight any negative aspects" (Sugiyama and Eguchi 2025). This incident indicates that some authors already believe in the presence of AI involvement in the peer review process, undoubtedly posing a significant threat to the maintenance of trust within it.

4.4 | Strategies and Guidelines

AI tools, like computers and the internet, represent another powerful innovation in human history. Humanity needs to utilize these tools ethically and responsibly while establishing transparent and accountable usage guidelines. In view of this, AI tools can become powerful allies in enhancing both the efficiency and effectiveness of the peer review process. To address the opportunities and challenges posed by AI in peer review, publishers, editors, and reviewers should collaborate.

Publishers, as they are at the cutting edge of using AI tools, should be encouraged to develop ethical AI frameworks. This involves creating safe and responsible AI tools for peer review, as well as establishing transparent and comprehensive usage guidelines (P10, P21). Bahammum (2025) advocates proactive policy-making to maximise the benefits of AI tools while safeguarding the integrity of the peer review process. As the integration of AI tools into academic publishing becomes increasingly inevitable, the academic community must proactively guide its implementation rather than merely reacting to its emergence. Zheng et al. (2023) propose discipline-specific training using high-impact research as datasets, which could

enhance the disciplinary expertise of AI. Meanwhile, publishers should clarify their publication policies, requiring a standardised form for declaring any AI-assisted activities, including details such as the model of the AI tool used, the workflow of application, and the prompts employed. To address potential AI abuse, publishers should actively participate in investigations and clearly define consequences for such misconduct (P25). Additionally, publishers should continuously monitor and engage in active discussions regarding the latest advancements in AI, enabling them to make timely and targeted adjustments to AI-related policies (P1, P24, P36). However, as part of the norms established by governmental and academic organisations, AI policies for peer review should not rely solely on the efforts of publishers. The varying levels of recognition and tolerance among different publishers regarding AI usage can easily lead to confusion among authors. There is an urgent need to call upon governments and academic organisations to accelerate actions and propose broadly applicable AI policies, thereby encouraging publishers to harmonise AI usage guidelines.

Editors and reviewers bear responsibility for the decision-making and peer review processes (P3, P10). Editors and reviewers should first clarify the scope of AI use in peer review, including language improvement and rote tasks, and adhere strictly to this boundary. They must also define what AI cannot be used for, including core judgements about the academic value of manuscripts. When using AI for auxiliary tasks, they need to ensure platform security, including using publisher- and journal-certified AI platforms or employing local deployment methods to enhance confidentiality (Gruda 2025). Additionally, when leveraging AI, they should desensitise materials: remove confidential details (e.g., author/reviewer information, grant numbers, unpublished experimental data) when refining review comments or performing other auxiliary tasks.

For editors, they may use AI tools to assist in their work, such as quality check, finding reviewers, and language enhancement (P9, P12, P21). However, they are prohibited from using AI to make decisions, uploading manuscripts to AI platforms, or disclosing manuscript information (P3, P9, P22). Editors also have the obligation to evaluate and supervise the appropriate use of AI. For AI-assisted work in peer review, editors must assess potential misuse of AI and actively identify, report, and reject manuscripts with AI misuse (P13, P16, P21).

Similarly, reviewers are permitted to use AI tools only for auxiliary purposes, such as grammar and spelling checks and language polishing (P25, P30). Due to confidentiality requirements, reviewers must ensure that the entire peer review process remains confidential (P16, P33). Some journals allow reviewers to use AI tools under specific restrictions for peer review assistance, provided they adhere to ethical guidelines, delete confidential manuscript information, use secure and reliable AI platforms, and provide detailed statements (P13, P28, P32).

The effectiveness of current AI policies for peer review faces challenges, largely because stakeholders struggle to comply effectively or use AI tools as required. Heavy peer review workloads drive editors and reviewers to use AI for efficiency, making fully AI-prohibitive policies highly likely to be violated. Though

ethically sound, these policies no longer meet the practical needs in the AI era. Policies allowing limited AI use, however, suffer from operational gaps. Existing guidelines only vaguely state what is banned or allowed but fail to provide editors and reviewers with concrete steps, such as which AI tools are exempt, how to standardise usage, define confidential information, or craft prompts safely. Without these details, such policies urgently need more specific operational guidance.

Transparent peer review can be helpful. Public disclosure of review reports fosters continuous oversight, deterring the potential abuse of AI tools by reviewers. The increased transparency serves as a deterrent against academic misconduct by reinforcing accountability. In this context, reviewers may utilise AI tools to assist in the peer review process, as long as reviewers formally declare such usage and remain fully responsible for all review comments. Nevertheless, as Seghier (2024) argues, while AI can effectively support the review process, it cannot substitute human reviewers.

AI lacks definitive evaluation criteria. Depending on the prompt method and rounds, AI can generate different review responses (Lee et al. 2025). To enhance transparency, reviewers can share the exact prompts used during the AI-assisted peer review process, enabling authors and editors to better comprehend the generated review reports. Lin (2023) argues that as long as the use of AI is disclosed transparently, there is no need to impose restrictions on its scope or methodology. The passage of unoriginal or valueless manuscripts through the peer review process reflects structural flaws within the peer review process rather than issues with AI itself.

Moreover, the ethical guidelines governing the use of AI in peer review heavily depend on the professional integrity of reviewers, as these guidelines lack enforceable measures. If abusing AI in peer review carries no consequences, the effectiveness of AI policies will be undermined by a lack of enforceability. Therefore, it is essential to establish specific measures for potential misuse of AI in peer review. Such measures could include releasing review reports, disregarding the review comments suspected of AI misuse, implementing a scoring system for reviewers' reports (Martin 2025), and terminating review invitations for those suspected of AI abuse. Nevertheless, these measures must be proportionate. Mollaki (2024) suggested that examining the use of AI in peer review reports may reconstruct the traditional trust relationship among reviewers, authors, and editors. Excessive punishment could undermine the altruistic spirit of peer review and risk penalising reviewers who have not misused AI. This technical and ethical risk may dampen scholars' enthusiasm for participating in peer review. Since such measures could damage reviewers' academic reputations, and penalising over suspected AI misuse may spark disputes, editorial teams could remove consistently underperforming reviewers from their pool.

4.5 | AI Policy Differences Between Disciplines

Different disciplines exhibit varying attitudes towards the application of AI in peer review. Lund and Naheem (2023) studied AI author policies of the top 300 ScimagoJR (SJR) journals,

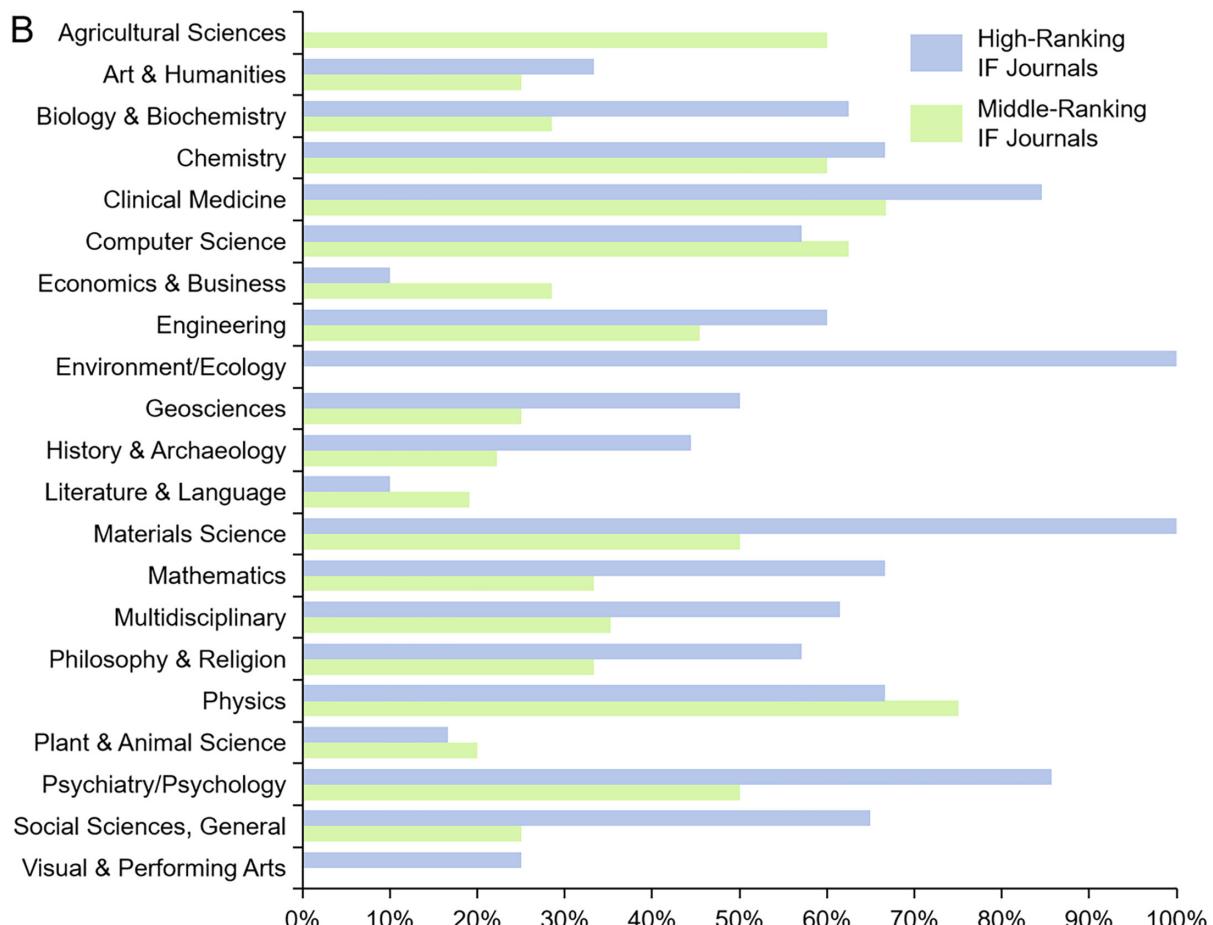
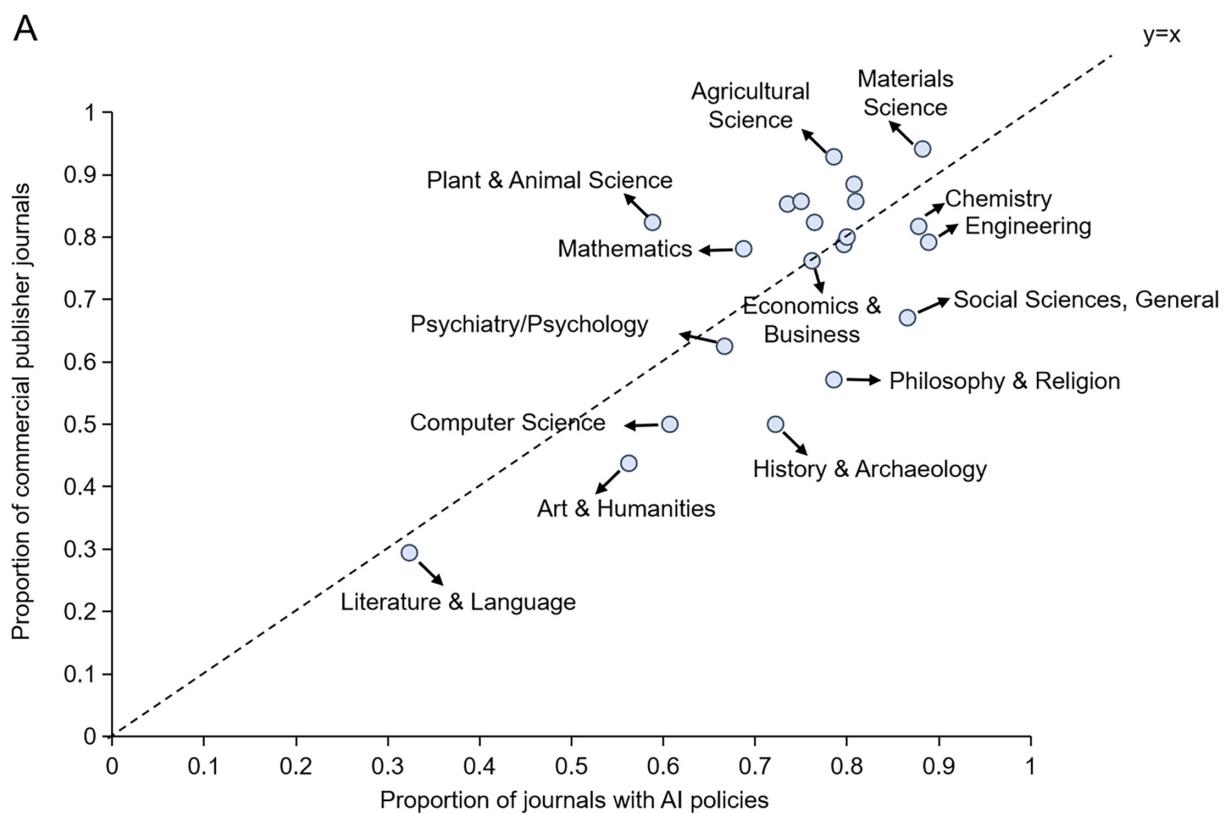


FIGURE 6 | Legend on next page.

FIGURE 6 | Relationship between AI policies proportion and commercial publishers proportion. (A) relationship between the proportion of journals with AI policies for peer review in each discipline and the proportion of journals published by commercial publishers; (B) proportion of journals published by non-profit publishers with AI policies for peer review in each discipline. Data shown in the figure was acquired in August 2025.

finding that natural science journals are more likely to formulate AI policies compared to journals without a focus on natural science. Li et al. (2024) investigated the AI peer review policies of the top 100 SJR journals in the medical field; 78 journals provided guidance on AI use, with 46 explicitly prohibiting its application. In a study of 367 Q1 journals in the field of social sciences, sub-disciplines such as communication studies and sociology advocate for the extensive use of artificial intelligence, whereas journals in economics and ethics adopt a more conservative stance (Goyanes et al. 2025). To date, no comprehensive studies have been conducted on the AI peer review policies of high-IF journals across other disciplines, leaving the question of whether disciplinary differences exist in AI peer review policy adoption unresolved.

In this study, the STM disciplines exhibited a relatively high proportion of AI policies for peer review and a greater share of commercial publishers' journals. In contrast, the social sciences and humanities disciplines have lower proportions of both commercial publishers' journals and AI policies for peer review. The influence of publishers, especially commercial publishers, on AI policies in peer review is notable (Figure 6A). A positive correlation exists between the proportion of commercial publishers' journals and the proportion of journals implementing AI policies for peer review, with an R -squared value greater than 0.5 and a correlation coefficient $R > 0.7$. Within the STM disciplines, mathematics and computer science demonstrate relatively low adoption rates and lenient attitudes towards AI policies in peer review, potentially due to their close alignment with AI technologies. For example, it is written in *Principles of Peer Review* of Association for Computing Machinery (ACM): “*Reviewers may use generative AI or other third-party tools with the sole purpose of improving the quality and readability of reviewer reports for the author, provided any and all parts of the review that would potentially identify the submission, author identities, reviewer identity, or other confidential content is removed prior to uploading into third party tools* (P26).” Among other STM fields, high adoption rates are observed in Environmental/Ecology, Materials Science, Chemistry, and Engineering, which correlate with the high representation of commercial publishers' journals in these disciplines. In clinical medicine, adherence to ethical guidelines from organisations such as the ICMJE and WAME plays a significant role, as many medical journals explicitly align with these standards.

By excluding journals from multi-disciplinary commercial publishers to avoid potential interference from their unified AI policies, and focusing solely on the policies of journals published by non-profit publishers (Figure 6B), the top 5 disciplines that have the highest proportion of journals adopting AI policies are: Clinical Medicine, Materials Science, Physics, Psychiatry/Psychology, Chemistry. Conversely, the 5 disciplines with the lowest proportion of journals implementing AI policies are: Visual & Performing Arts, Literature & Language, Plant & Animal Sciences, Economics & Business, Art & Humanities. Across disciplines, high-and middle-IF journals have a

consistent proportion of journals with AI policies for peer review, though overall, middle-IF journals exhibit a lower rate of such policies. These findings from non-profit publishers further underscore the disparities between STM disciplines and the social sciences and humanities.

Overall, fewer journals within the humanities and social sciences have incorporated AI policies into their peer review processes, and the proportion of those with strict prohibitions is also relatively lower. In contrast, journals in STM disciplines exhibit a higher proportion of policy issuance, accompanied by a more stringent attitude. Nevertheless, the majority of disciplinary journals lack their own AI policies or editorials addressing AI usage, often aligning with the guidelines set by their affiliated publishers. This finding underscores the importance of developing tailored AI peer review policies that account for the characteristics of each discipline.

4.6 | Strengths and Limitations

This study carried out an in-depth and comprehensive analysis of AI policies for peer review across 439 high-IF journals and 363 middle-IF journals spanning 21 disciplines within JCR ranking. These selected journals, sourced from 155 publishers, encompass both STM disciplines and the social sciences and humanities. Based on grounded theory, the research employed a method of independent multi-coder analysis to systematically summarise the categories and concepts derived from 39 policy documents across various journals. The study elucidates the principles, concerns, and measures implemented in AI peer review policies while highlighting the disciplinary variations in these policies. Furthermore, it reveals the dual influence of commercial publishers and disciplines on the formulation of journal AI policies.

Further investigation into specific disciplines necessitates large-scale analyses at the individual discipline level to ensure data representativeness. Additionally, limited by the research methodology, this study struggled to accurately assess the effectiveness of policy implementation, analyzing solely based on selected cases instead. This aspect warrants further exploration in subsequent studies.

5 | Conclusion

The rapid adoption of AI in peer review exposes critical tensions between technological potential and ethical safeguards. Three core challenges persist: confidentiality risks, accountability gaps, and inherent limitations in replicating expert critical assessment. Current policies predominantly limit AI to non-decisive roles, reflecting pervasive scepticism about the ability of AI to maintain review standards. However, given the inevitability of AI adoption, proactive policies are essential. We advocate

for discipline-specific guidelines that mandate transparency in AI usage, robust confidentiality protocols, and shared accountability models between publishers, editors, and reviewers. In our study, while 83% of high-IF journals and 75% of middle-IF journals have established AI policies, the implementation varies considerably across disciplines. Specifically, STM disciplines tend to impose stricter restrictions compared to social sciences and humanities. Future research should focus on establishing tailored policies for different disciplines. As AI becomes increasingly integrated into scholarly publishing, preserving the integrity of peer review will necessitate ongoing policy adjustments alongside technological progress.

Author Contributions

Mengyue Gong: conceptualization, investigation, writing – review and editing.

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Conflicts of Interest

The authors declare no conflicts of interest.

Data Availability Statement

Data will be made available on request.

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Supporting Information

Additional supporting information can be found online in the Supporting Information section. **Data S1:** Supplementary Information. **Data S2:** Supplementary Information.

Appendix A

TABLE A1 | Selected high-ranking IF Journals.

| | Journal | Publishers | Impact factor (2023) |
|----|---|----------------------------------|----------------------|
| 1 | Academy of Management Review | Academy of Management | 19.3 |
| 2 | Accident Analysis and Prevention | Elsevier | 5.7 |
| 3 | ACM Computing Surveys | ACM | 23.8 |
| 4 | Acta Numerica | Cambridge | 16.3 |
| 5 | Addiction | Wiley | 5.2 |
| 6 | Advanced Composites and Hybrid Materials | Springer | 23.2 |
| 7 | Advanced Fibre Materials | Springer | 17.2 |
| 8 | Advanced Healthcare Materials | Wiley | 10 |
| 9 | Advances in Physics | Taylor & Francis | 35 |
| 10 | Ageing Research Reviews | Elsevier | 12.5 |
| 11 | Agricultural Economics | Wiley | 4.5 |
| 12 | Agricultural Systems | Elsevier | 6.1 |
| 13 | Alcohol Research-Current Reviews | Alcohol Research-Current Reviews | 6.8 |
| 14 | Allergy | Wiley | 12.6 |
| 15 | American Historical Review | Oxford | 1.9 |
| 16 | American Journal of Bioethics | Taylor & Francis | 17 |
| 17 | American Journal of Chinese Medicine | World Scientific | 4.8 |
| 18 | American Journal of Obstetrics and Gynaecology | Elsevier | 8.7 |
| 19 | American Journal of Transplantation | Elsevier | 8.9 |
| 20 | American Literary History | Oxford | 0.6 |
| 21 | American Literature | Duke | 0.6 |
| 22 | Analytic Methods in Accident Research | Elsevier | 12.5 |
| 23 | Andrology | Wiley | 3.2 |
| 24 | Anesthesiology | ASA Publications | 9.3 |
| 25 | Annals of the Rheumatic Diseases | Elsevier | 20.3 |
| 26 | Annals of Tourism Research | Elsevier | 10.4 |
| 27 | Annual Review of Animal Biosciences | Annual Review | 8.7 |
| 28 | Annual Review of Astronomy and Astrophysics | Annual Review | 26.3 |
| 29 | Annual Review of Cell and Developmental Biology | Annual Review | 11.4 |
| 30 | Annual Review of Clinical Psychology | Annual Review | 17.8 |
| 31 | Annual Review of Control Robotics and Autonomous Systems | Annual Review | 11.2 |
| 32 | Annual Review of Criminology | Annual Review | 6.3 |
| 33 | Annual Review of Entomology | Annual Review | 15 |
| 34 | Annual Review of Fluid Mechanics | Annual Review | 25.4 |
| 35 | Annual Review of Marine Science | Annual Review | 14.3 |
| 36 | Annual Review of Nutrition | Annual Review | 12.6 |
| 37 | Annual Review of Organisational Psychology and Organisational Behaviour | Annual Review | 14.3 |

(Continues)

TABLE A1 | (Continued)

| | Journal | Publishers | Impact factor (2023) |
|----|--|---|----------------------|
| 38 | Annual Review of Pathology-Mechanisms of Disease | Annual Review | 28.4 |
| 39 | Annual Review of Pharmacology and Toxicology | Annual Review | 11.2 |
| 40 | Annual Review of Physiology | Annual Review | 15.8 |
| 41 | Annual Review of Plant Biology | Annual Review | 21.4 |
| 42 | Annual Review of Political Science | Annual Review | 9.7 |
| 43 | Annual Review of Psychology | Annual Review | 23.6 |
| 44 | Annual Review of Sociology | Annual Review | 8.9 |
| 45 | Annual Review of Statistics and Its Application | Annual Review | 7.4 |
| 46 | Anuario Lope de Vega-Texto Literatura Cultura | Anuario Lope de Vega-Texto Literatura Cultura | 0.7 |
| 47 | Applied and Computational Mathematics | Science Publishing Group | 4.6 |
| 48 | Applied Catalysis B-Environment and Energy | Elsevier | 20.3 |
| 49 | Applied Clay Science | Elsevier | 5.3 |
| 50 | Applied Mechanics Reviews | ASME | 12.2 |
| 51 | Applied Surface Science Advances | Elsevier | 7.5 |
| 52 | Archives of Computational Methods in Engineering | Springer | 9.7 |
| 53 | Asian Studies Review | Taylor & Francis | 1.2 |
| 54 | Astronomy and Astrophysics Review | Springer | 27.8 |
| 55 | Autism in Adulthood | Mary Ann Libert | 9.9 |
| 56 | Automation in Construction | Elsevier | 9.6 |
| 57 | Behaviour Research Methods | Springer | 4.6 |
| 58 | Behavioural and Brain Sciences | Cambridge | 16.6 |
| 59 | Bioactive Materials | KeAi | 18 |
| 60 | Biochar | Springer | 13.1 |
| 61 | Biological Reviews | Wiley | 11 |
| 62 | Biomass & Bioenergy | Elsevier | 6.3 |
| 63 | Biomaterials | Elsevier | 12.8 |
| 64 | Bioresource Technology | Elsevier | 9.7 |
| 65 | Blood | ASH Publications | 21.1 |
| 66 | BMC Medical Informatics and Decision Making | BMC | 3.3 |
| 67 | Bone Research | Nature | 14.3 |
| 68 | Brain Structure & Function | Springer | 2.7 |
| 69 | British Journal of Anaesthesia | Elsevier | 9.1 |
| 70 | British Journal of Sports Medicine | BMJ | 11.8 |
| 71 | Burns & Trauma | Oxford | 6.3 |
| 72 | CA-A Cancer Journals for Clinicians | Wiley | 521.6 |
| 73 | Carbohydrate Polymers | Elsevier | 10.7 |
| 74 | Celestinesca | Celestinesca | 0.6 |
| 75 | Cell | Cell | 45.6 |
| 76 | Cell Host & Microbe | Cell | 20.6 |
| 77 | Cell Stem Cell | Cell | 19.8 |

(Continues)

TABLE A1 | (Continued)

| | Journal | Publishers | Impact factor (2023) |
|-----|---|--------------------------------|----------------------|
| 78 | Cells Tissues Organs | Karger | 2.9 |
| 79 | Cellulose | Springer | 4.9 |
| 80 | Cement & Concrete Composites | Elsevier | 10.8 |
| 81 | Chaos Solution & Fractals | Elsevier | 5.3 |
| 82 | Chemical Society Reviews | RSC | 40.4 |
| 83 | Child Maltreatment | SAGE | 4.5 |
| 84 | China Journal | University of Chicago Press | 4.7 |
| 85 | Chinese Journal of Catalysis | Elsevier | 15.7 |
| 86 | Chinese Journal of Structural Chemistry | Elsevier | 5.9 |
| 87 | Chinese Medicine | BMC | 5.3 |
| 88 | Circulation | AHA Journals | 35.6 |
| 89 | Circulation Research | AHA Journals | 16.5 |
| 90 | Classical Antiquity | University of California Press | 0.9 |
| 91 | Clinical Chemistry | Oxford | 7.1 |
| 92 | Clinical Psychology Review | Elsevier | 13.7 |
| 93 | CoDesign-International Journal of CoCreation in Design and the Arts | Taylor & Francis | 2 |
| 94 | Communication Methods and Measures | Taylor & Francis | 6.3 |
| 95 | Communications in Transportation Research | Elsevier | 12.5 |
| 96 | Communications of the ACM | ACM | 11.1 |
| 97 | Comparative Migration Studies | Springer | 4.3 |
| 98 | Composites Part B-Engineering | Elsevier | 12.7 |
| 99 | Computational Visual Media | Springer | 17.3 |
| 100 | Computer Assisted Language Learning | Taylor & Francis | 6 |
| 101 | Computer Physics Communications | Elsevier | 7.2 |
| 102 | Computer Science Review | Elsevier | 13.3 |
| 103 | Computer-Aided Civil and Infrastructure Engineering | Wiley | 8.5 |
| 104 | Computers and Electronics in Agriculture | Elsevier | 7.7 |
| 105 | Computers in Biology and Medicine | Elsevier | 7 |
| 106 | Conservation Letters | Wiley | 7.7 |
| 107 | Coordination Chemistry Reviews | Elsevier | 20.3 |
| 108 | CounterText-A Journal for the Study of the Post-Literary | Edinburgh University Press | 0.5 |
| 109 | Critical Reviews in Clinical Laboratory Sciences | Taylor & Francis | 6.6 |
| 110 | Critique | Taylor & Francis | 0.6 |
| 111 | Cultural Diversity & Ethnic Minority Psychology | APA | 3.2 |
| 112 | Current Forestry Reports | Springer | 9 |
| 113 | Current Opinion in Insect Science | Elsevier | 5.8 |
| 114 | Dance Research Journal | Cambridge | 0.4 |
| 115 | Developmental Cell | Cell | 10.7 |

(Continues)

TABLE A1 | (Continued)

| | Journal | Publishers | Impact factor (2023) |
|-----|---|---|----------------------|
| 116 | Dialogues in Human Geography | SAGE | 8.2 |
| 117 | Dickens Quarterly | John Hopkins University Press | 0.7 |
| 118 | Dickensian | DICKENSIAN | 0.7 |
| 119 | Drugs | Springer | 13 |
| 120 | Ear and Hearing | LWW Journals/Wolters Kluwer | 2.6 |
| 121 | Earth System Science Data | Copernicus | 11.2 |
| 122 | Eastern African Literary and Cultural Studies | Taylor & Francis | 0.4 |
| 123 | Economic Geology | GeoScienceWorld | 5.5 |
| 124 | Educational Psychologist | Taylor & Francis | 14.3 |
| 125 | Educational Psychology Review | Springer | 10.1 |
| 126 | Educational Research Review | Elsevier | 9.6 |
| 127 | Electrochemical Energy Reviews | Springer | 28.5 |
| 128 | eLight | Springer | 27.2 |
| 129 | Endocrine Pathology | Springer | 11.3 |
| 130 | Energy & Environmental Science | RSC | 32.4 |
| 131 | Energy Conversion and Management | Elsevier | 9.9 |
| 132 | Energy Economics | Elsevier | 13.6 |
| 133 | Engineering | Elsevier | 10.1 |
| 134 | Environmental Chemistry Letters | Springer | 15 |
| 135 | eScience | KeAi | 42.9 |
| 136 | Ethics | University of Chicago Press | 4.6 |
| 137 | Ethics and Information Technology | Springer | 3.4 |
| 138 | eTransportation | Elsevier | 15.1 |
| 139 | European Heart Journal | Oxford | 38.1 |
| 140 | European Journal of Psychology Applied to Legal Context | European Journal of Psychology Applied to Legal Context | 7.6 |
| 141 | European Review of Social Psychology | Taylor & Francis | 10.1 |
| 142 | European Urology | Elsevier | 25.3 |
| 143 | Evolutionary Anthropology | Wiley | 4.6 |
| 144 | Explorations in Economic History | Elsevier | 2.6 |
| 145 | Food Policy | Elsevier | 6.8 |
| 146 | Foreign Affairs | FOREIGN AFFAIRS | 6.3 |
| 147 | Forensic Science International | Elsevier | 2.2 |
| 148 | Forensic Science International-Genetics | Elsevier | 3.2 |
| 149 | Foundations and Trends in Machine Learning | ACM | 65.4 |
| 150 | Frontiers of Architectural Research | KeAi | 3.1 |
| 151 | Fungal Diversity | Springer | 24.5 |
| 152 | Gender & Society | SAGE | 7.2 |
| 153 | Gender Work and Organisation | Wiley | 3.9 |
| 154 | Geography and Sustainability | Elsevier | 8 |

(Continues)

TABLE A1 | (Continued)

| | Journal | Publishers | Impact factor (2023) |
|-----|---|------------------|----------------------|
| 155 | Geology | GeoScienceWorld | 4.8 |
| 156 | Gifted Child Quarterly | SAGE | 3 |
| 157 | Global Change Biology | Wiley | 10.8 |
| 158 | Global Environmental Change-Human and Policy Dimensions | Elsevier | 8.6 |
| 159 | Habitat International | Elsevier | 6.5 |
| 160 | Health Affairs | HEALTH AFFAIRS | 8.8 |
| 161 | Horticulture Research | Oxford | 7.6 |
| 162 | Human Reproduction Open | Oxford | 8.3 |
| 163 | Human Reproduction Update | Oxford | 14.8 |
| 164 | Human Resource Management Journal | Wiley | 5.4 |
| 165 | Humanities & Social Sciences Communications | Nature | 3.7 |
| 166 | IEEE Communications Surveys and Tutorials | IEEE | 34.4 |
| 167 | IEEE Geoscience and Remote Sensing Magazine | IEEE | 16.2 |
| 168 | IEEE Journals on Selected Areas in Communications | IEEE | 13.8 |
| 169 | IEEE Transactions on Affective Computing | IEEE | 9.6 |
| 170 | IEEE Transactions on Cybernetics | IEEE | 9.4 |
| 171 | IEEE Transactions on Industrial Electronics | IEEE | 7.5 |
| 172 | IEEE Transactions on Industrial Informatics | IEEE | 11.7 |
| 173 | IEEE Transactions on Intelligent Vehicles | IEEE | 14 |
| 174 | IEEE Transactions on Pattern Analysis and Machine Intelligence | IEEE | 20.8 |
| 175 | IEEE Wireless Communications | IEEE | 10.9 |
| 176 | IEEE-CAA Journal of Automatica Sinica | IEEE | 15.3 |
| 177 | Implementation Science | BMC | 8.8 |
| 178 | Industrial and Organisational Psychology-Perspectives on Science and Practice | Cambridge | 11.5 |
| 179 | Infectious Diseases of Poverty | BMC | 4.8 |
| 180 | Information Fusion | Elsevier | 14.8 |
| 181 | Innovation in Ageing | Oxford | 4.9 |
| 182 | Intensive and Critical Care Nursing | Elsevier | 4.9 |
| 183 | Intensive Care Medicine | Springer | 27.1 |
| 184 | International Forum of Allergy & Rhinology | Wiley | 7.2 |
| 185 | International Journal of Architectural Heritage | Taylor & Francis | 2.3 |
| 186 | International Journal of Energy Research | Wiley | 4.3 |
| 187 | International Journal of Extreme Manufacturing | IOP Publishing | 16.1 |
| 188 | International Journal of Human-Computer Studies | Elsevier | 5.3 |
| 189 | International Journal of Information Management | Elsevier | 20.1 |
| 190 | International Journal of Medicine Tools & Manufacture | Elsevier | 14 |
| 191 | International Journal of Mining Science and Technology | Elsevier | 11.7 |

(Continues)

TABLE A1 | (Continued)

| | Journal | Publishers | Impact factor (2023) |
|-----|---|--|----------------------|
| 192 | International Journal of Nursing Studies | Elsevier | 7.5 |
| 193 | International Journal of Oral Science | Nature | 10.8 |
| 194 | International Journal of Rock Mechanics and Mining Sciences | Elsevier | 7 |
| 195 | International Journal of STEM Education | Springer | 5.6 |
| 196 | International Journal of Surgery | LWW Journals/Wolters Kluwer | 12.5 |
| 197 | International Journal of Transgender Health | Taylor & Francis | 10.5 |
| 198 | International Organisation | Cambridge | 8.2 |
| 199 | ISPRS Journal of Photogrammetry and Remote Sensing | Elsevier | 10.6 |
| 200 | JACC-Cardiovascular Imaging | Elsevier | 12.8 |
| 201 | JAMA Dermatology | JAMA | 11.5 |
| 202 | JAMA Otolaryngology-Head & Neck Surgery | JAMA | 6.1 |
| 203 | JAMA Paediatrics | JAMA | 24.7 |
| 204 | JAMA Surgery | JAMA | 15.9 |
| 205 | JMIR Ageing | JMIR Publications | 5 |
| 206 | Joule | Cell | 38.6 |
| 207 | Journal of Advanced Ceramics | SciOpen/Tsinghua University Press | 18.6 |
| 208 | Journal of Allergy and Clinical Immunology | Elsevier | 11.4 |
| 209 | Journal of American Folklore | Journal of American Folklore | 0.5 |
| 210 | Journal of Animal Science and Biotechnology | BMC | 6.3 |
| 211 | Journal of Applied Crystallography | Wiley | 5.2 |
| 212 | Journal of Archaeological Research | Springer | 4.2 |
| 213 | Journal of Asian Studies | Duke | 1.3 |
| 214 | Journal of Bioresources and Bioproducts | KeAi | 20.2 |
| 215 | Journal of Chinese Political Science | Springer | 4.6 |
| 216 | Journal of Cultural Heritage | Elsevier | 3.5 |
| 217 | Journal of Econometrics | Elsevier | 9.9 |
| 218 | Journal of Economic History | Cambridge | 2.5 |
| 219 | Journal of Economic Literature | American Economic Association | 11.5 |
| 220 | Journal of Educational Evaluation for Health Professions | Journal of Educational Evaluation for Health Professions | 9.1 |
| 221 | Journal of Energy Chemistry | Elsevier | 14 |
| 222 | Journal of Ethnic and Migration Studies | Taylor & Francis | 2.8 |
| 223 | Journal of Financial Economics | Elsevier | 10.4 |
| 224 | Journal of Folklore Research | Indiana University Press | 0.4 |
| 225 | Journal of Heart and Lung Transplantation | Elsevier | 6.4 |
| 226 | Journal of Haematology & Oncology | BMC | 29.9 |
| 227 | Journal of Human Resources | University of Wisconsin Press | 5.3 |
| 228 | Journal of Infection | Elsevier | 14.3 |
| 229 | Journal of Innovation & Knowledge | Elsevier | 15.6 |

(Continues)

TABLE A1 | (Continued)

| | Journal | Publishers | Impact factor (2023) |
|-----|--|------------------|----------------------|
| 230 | Journal of International Financial Management & Accounting | Wiley | 9.4 |
| 231 | Journal of Literary Theory | De Gruyter | 0.6 |
| 232 | Journal of Magnesium and Alloys | KeAi | 15.8 |
| 233 | Journal of Manufacturing Systems | Elsevier | 12.3 |
| 234 | Journal of Materials Science & Technology | Elsevier | 11.2 |
| 235 | Journal of Medical Ethics | BMJ | 3.3 |
| 236 | Journal of Metamorphic Geology | Wiley | 3.5 |
| 237 | Journal of Micropalaeontology | Copernicus | 4.1 |
| 238 | Journal of NeuroInterventional Surgery | BMJ | 4.5 |
| 239 | Journal of Ocean Engineering and Science | Elsevier | 13 |
| 240 | Journal of Orthopaedic & Sports Physical Therapy | JOSPT | 6 |
| 241 | Journal of Peasant Studies | Taylor & Francis | 4.6 |
| 242 | Journal of Physiotherapy | Elsevier | 9.7 |
| 243 | Journal of Research on Adolescence | Wiley | 4.6 |
| 244 | Journal of Responsible Innovation | Taylor & Francis | 3.9 |
| 245 | Journal of Rock Mechanics and Geotechnical Engineering | Elsevier | 9.4 |
| 246 | Journal of Roman Studies | Cambridge | 0.8 |
| 247 | Journal of Second Language Writing | Elsevier | 5 |
| 248 | Journal of Sport and Health Science | Elsevier | 9.7 |
| 249 | Journal of Strategic Information Systems | Elsevier | 8.7 |
| 250 | Journal of the American Academy of Dermatology | Elsevier | 12.8 |
| 251 | Journal of the American Psychoanalytic Association | SAGE | 1.4 |
| 252 | Journal of the European Ceramic Society | Elsevier | 5.8 |
| 253 | Journal of Thoracic Oncology | Elsevier | 21.1 |
| 254 | Journal of World Prehistory | Springer | 3.8 |
| 255 | Lab Animal | Nature | 5.9 |
| 256 | Lancet | Lancet | 98.4 |
| 257 | Lancet Child & Adolescent Health | Lancet | 19.9 |
| 258 | Lancet Diabetes & Endocrinology | Lancet | 44 |
| 259 | Lancet Digital Health | Lancet | 23.8 |
| 260 | Lancet Gastroenterology & Hepatology | Lancet | 30.9 |
| 261 | Lancet Infectious Diseases | Lancet | 36.4 |
| 262 | Lancet Microbe | Lancet | 20.9 |
| 263 | Lancet Neurology | Lancet | 46.5 |
| 264 | Lancet Psychiatry | Lancet | 30.8 |
| 265 | Lancet Respiratory Medicine | Lancet | 38.7 |
| 266 | Landscape and Urban Planning | Elsevier | 7.9 |
| 267 | Limnology and Oceanography Letters | Wiley | 5.2 |

(Continues)

TABLE A1 | (Continued)

| | Journal | Publishers | Impact factor (2023) |
|-----|---|------------------|----------------------|
| 268 | Living Reviews in Relativity | Springer | 26.3 |
| 269 | Mass Spectrometry Reviews | Wiley | 6.9 |
| 270 | Materials Characterisation | Elsevier | 4.8 |
| 271 | Media Psychology | Taylor & Francis | 3.4 |
| 272 | Medicinal Research Reviews | Wiley | 10.9 |
| 273 | Micron | Elsevier | 2.5 |
| 274 | Microscopy and Microanalysis | Oxford | 2.9 |
| 275 | Milton Quarterly | Wiley | 0.4 |
| 276 | MMWR Recommendations and Reports | MMWR | 70.2 |
| 277 | MMWR Surveillance Summaries | MMWR | 37.3 |
| 278 | Monographs of the Society for Research in Child Development | Wiley | 9.4 |
| 279 | Music Education Research | Taylor & Francis | 1.8 |
| 280 | Musicae Scientiae | SAGE | 2.2 |
| 281 | Natural Product Reports | RSC | 10.2 |
| 282 | Nature | Nature | 50.5 |
| 283 | Nature Ageing | Nature | 17 |
| 284 | Nature Biomedical Engineering | Nature | 27.7 |
| 285 | Nature Biotechnology | Nature | 33.1 |
| 286 | Nature Catalysis | Nature | 42.9 |
| 287 | Nature Climate Change | Nature | 30.3 |
| 288 | Nature Ecology & Evolution | Nature | 14.1 |
| 289 | Nature Electronics | Nature | 34.5 |
| 290 | Nature Energy | Nature | 49.8 |
| 291 | Nature Food | Nature | 23.6 |
| 292 | Nature Genetics | Nature | 31.8 |
| 293 | Nature Geoscience | Nature | 15.7 |
| 294 | Nature Human Behaviour | Nature | 22.3 |
| 295 | Nature Immunology | Nature | 27.7 |
| 296 | Nature Machine Intelligence | Nature | 18.8 |
| 297 | Nature Materials | Nature | 37.2 |
| 298 | Nature Medicine | Nature | 58.7 |
| 299 | Nature Methods | Nature | 36.1 |
| 300 | Nature Nanotechnology | Nature | 38.1 |
| 301 | Nature Photonics | Nature | 32.3 |
| 302 | Nature Protocols | Nature | 13.1 |
| 303 | Nature Reviews Cardiology | Nature | 41.7 |
| 304 | Nature Reviews Clinical Oncology | Nature | 81.1 |
| 305 | Nature Reviews Drug Discovery | Nature | 122.8 |
| 306 | Nature Reviews Earth & Environment | Nature | 49.7 |

(Continues)

TABLE A1 | (Continued)

| | Journal | Publishers | Impact factor (2023) |
|-----|--|--|----------------------|
| 307 | Nature Reviews Endocrinology | Nature | 31 |
| 308 | Nature Reviews Gastroenterology & Hepatology | Nature | 46.4 |
| 309 | Nature Reviews Genetics | Nature | 39.1 |
| 310 | Nature Reviews Immunology | Nature | 67.7 |
| 311 | Nature Reviews Materials | Nature | 79.8 |
| 312 | Nature Reviews Microbiology | Nature | 69.2 |
| 313 | Nature Reviews Molecular Cell Biology | Nature | 81.4 |
| 314 | Nature Reviews Nephrology | Nature | 28.7 |
| 315 | Nature Reviews Neuroscience | Nature | 28.7 |
| 316 | Nature Reviews Physics | Nature | 44.8 |
| 317 | Nature Reviews Rheumatology | Nature | 29.4 |
| 318 | Nature Structural & Molecular Biology | Nature | 12.5 |
| 319 | Nature Sustainability | Nature | 26.2 |
| 320 | Neizvestnyi Dostoevskii-The Unknown Dostoevsky | Neizvestnyi Dostoevskii-The Unknown Dostoevsky | 0.5 |
| 321 | Neuroimage | Elsevier | 4.7 |
| 322 | Neuroscience of Consciousness | Oxford | 4.1 |
| 323 | New England Journal of Medicine | NEJM Group | 96.2 |
| 324 | npj Clean Water | Nature | 10.5 |
| 325 | npj Digital Medicine | Nature | 12.4 |
| 326 | npj Primary Care Respiratory Medicine | Nature | 3.1 |
| 327 | npj Quantum Information | Nature | 6.6 |
| 328 | Nuclear Science and Techniques | Springer Nature | 3.6 |
| 329 | Ocean Engineering | Elsevier | 4.6 |
| 330 | Ophthalmology | Elsevier | 13.2 |
| 331 | Ornithological Applications | Oxford | 2.6 |
| 332 | Ornithology | Oxford | 2.1 |
| 333 | Osteoarthritis and Cartilage | Elsevier | 7.2 |
| 334 | Paleoceanography and Paleoclimatology | Wiley | 3.2 |
| 335 | Pathogens and Global Health | Taylor & Francis | 4.9 |
| 336 | Periodontology 2000 | Wiley | 17.5 |
| 337 | Personality and Social Psychology Review | SAGE | 7.7 |
| 338 | Petroleum Exploration and Development | KeAi | 7.2 |
| 339 | Petroleum Science | KeAi | 6 |
| 340 | Pharmacological Reviews | Elsevier | 19.3 |
| 341 | Physics of Fluids | AIP Publishing | 4.1 |
| 342 | Physics of Life Reviews | Elsevier | 13.7 |
| 343 | Physiological Reviews | American Physiological Society | 33.4 |
| 344 | Plant Phenomics | AAAS | 7.6 |
| 345 | Poetics | Elsevier | 2 |

(Continues)

TABLE A1 | (Continued)

| | Journal | Publishers | Impact factor (2023) |
|-----|---|----------------------------------|----------------------|
| 346 | Policy and Society | Oxford | 5.7 |
| 347 | Polymer Reviews | Taylor & Francis | 11.1 |
| 348 | Polymer Testing | Elsevier | 5 |
| 349 | Population and Development Review | Wiley | 4.6 |
| 350 | Postharvest Biology and Technology | Elsevier | 6.4 |
| 351 | Primary Health Care Research and Development | Cambridge | 1.6 |
| 352 | Proceedings of the IEEE | IEEE | 23.2 |
| 353 | Process in Aerospace Sciences | Elsevier | 11.5 |
| 354 | Process in Energy and Combustion Science | Elsevier | 32 |
| 355 | Progress in Lipid Research | Elsevier | 14 |
| 356 | Progress in Nuclear Magnetic Resonance Spectroscopy | Elsevier | 7.3 |
| 357 | Progress in Organic Coatings | Elsevier | 6.5 |
| 358 | Progress in Particle and Nuclear Physics | Elsevier | 14.5 |
| 359 | Progress in Polymer Science | Elsevier | 26 |
| 360 | Progress in Quantum Electronics | Elsevier | 7.4 |
| 361 | Progress in Retinal and Eye Research | Elsevier | 18.7 |
| 362 | Progress in Solid State Chemistry | Elsevier | 9.1 |
| 363 | PRX Quantum | APS | 9.3 |
| 364 | Psychoanalytic Psychotherapy | Taylor & Francis | 1.2 |
| 365 | Psychological Science in the Public Interest | SAGE | 18.2 |
| 366 | Psychology of Aesthetics Creativity and the Arts | APA | 2.7 |
| 367 | Psychonomic Bulletin & Review | Springer | 3.2 |
| 368 | Public Administration Review | Wiley | 6.1 |
| 369 | Public Understanding of Science | SAGE | 3.5 |
| 370 | Publications mathématiques de l'IHÉS | Springer | 6 |
| 371 | Radiology | RSNA | 12.1 |
| 372 | ReCall | Cambridge | 4.6 |
| 373 | Regulatory Toxicology and Pharmacology | Elsevier | 3 |
| 374 | Religion Brain & Behaviour | Taylor & Francis | 3.6 |
| 375 | Remote Sensing of Environment | Elsevier | 11.1 |
| 376 | Renaissance Quarterly | Cambridge | 1.2 |
| 377 | Research in African Literatures | Indiana University Press | 0.3 |
| 378 | Research in Dance Education | Taylor & Francis | 0.8 |
| 379 | Research in Developmental Disabilities | Elsevier | 2.9 |
| 380 | Research Integrity and Peer Review | Taylor & Francis | 3.9 |
| 381 | Resuscitation | Elsevier | 6.5 |
| 382 | Review of Communication Research | Review of Communication Research | 6.3 |
| 383 | Review of Economics and Statistics | MIT Press | 7.6 |
| 384 | Review of Symbolic Logic | Cambridge | 0.9 |
| 385 | Reviews in Aquaculture | Wiley | 8.8 |

(Continues)

TABLE A1 | (Continued)

| | Journal | Publishers | Impact factor (2023) |
|-----|--|-------------------------------|----------------------|
| 386 | Reviews in Fish Biology and Fisheries | Springer | 5.9 |
| 387 | Reviews in Fisheries Science & Aquaculture | Taylor & Francis | 6.4 |
| 388 | Reviews in Medical Virology | Wiley | 9 |
| 389 | Reviews of Geophysics | Wiley | 25.2 |
| 390 | Reviews of Modern Physics | APS | 45.9 |
| 391 | Rhetoric Society Quarterly | Taylor & Francis | 1.1 |
| 392 | Russian Literature | Elsevier | 0.3 |
| 393 | Satellite Navigation | Springer | 9 |
| 394 | Science | AAAS | 44.8 |
| 395 | Science as Culture | Taylor & Francis | 2.5 |
| 396 | Science Robotics | AAAS | 26.1 |
| 397 | Science Translational Medicine | AAAS | 15.8 |
| 398 | Seminar-A Journal of Germanic Studies | University of Toronto Press | 0.5 |
| 399 | Sensors and Actuators B-Chemical | Elsevier | 8 |
| 400 | Shaw-The Journal of Bernard Shaw Studies | Penn State University Press | 0.6 |
| 401 | SIAM Review | SIAM | 10.8 |
| 402 | Sociology of Religion | Oxford | 2.4 |
| 403 | Soil Biology & Biochemistry | Elsevier | 9.8 |
| 404 | South Atlantic Quarterly | Duke | 2.1 |
| 405 | Speculum-A Journal of Mediaeval Studies | University of Chicago Press | 1.2 |
| 406 | Statistics Surveys | Statistics Surveys | 11 |
| 407 | Studies in Mycology | STUDIES IN MYCOLOGY | 14.1 |
| 408 | SusMat | Wiley | 18.7 |
| 409 | Sustainable Development | Wiley | 9.9 |
| 410 | Technological Forecasting and Social Change | Elsevier | 12.9 |
| 411 | Technology in Society | Elsevier | 10.1 |
| 412 | Technovation | Elsevier | 11.1 |
| 413 | Television & New Media | SAGE | 2.4 |
| 414 | Theatre Journal | John Hopkins University Press | 0.8 |
| 415 | Theory and Practice of Logic Programming | Cambridge | 1.4 |
| 416 | Theory Culture & Society | SAGE | 2.7 |
| 417 | Tijdschrift Voor Nederlandse Taal-En Letterkunde | Amsterdam U Press | 0.3 |
| 418 | Trac-Trends in Analytical Chemistry | Elsevier | 11.8 |
| 419 | Trauma Violence & Abuse | SAGE | 5.4 |
| 420 | Trends in Cognitive Sciences | Cell | 16.7 |
| 421 | Trends in Ecology & Evolution | Cell | 16.7 |
| 422 | Trends in Environmental Analytical Chemistry | Elsevier | 11.1 |
| 423 | Trends in Food Science & Technology | Elsevier | 15.1 |
| 424 | Trends in Hearing | SAGE | 2.6 |
| 425 | Trends in Parasitology | Cell | 7 |

(Continues)

TABLE A1 | (Continued)

| | Journal | Publishers | Impact factor (2023) |
|-----|---|------------------------------|----------------------|
| 426 | Trends in Plant Science | Cell | 17.4 |
| 427 | Ultrasonics Sonochemistry | Elsevier | 8.7 |
| 428 | Ultrasound in Obstetrics & Gynaecology | Wiley | 6.1 |
| 429 | Urban Forestry & Urban Greening | Elsevier | 6 |
| 430 | Veterinary Quarterly | Taylor & Francis | 7.9 |
| 431 | Walt Whitman Quarterly Review | University of Iowa Press | 1.4 |
| 432 | Water Research | Elsevier | 11.5 |
| 433 | Water Resources Research | Wiley | 4.6 |
| 434 | Wildlife Monographs | Wiley | 4.3 |
| 435 | Wiley Interdisciplinary Reviews-Computational Molecular Science | Wiley | 16.8 |
| 436 | World Bank Research Observer | Oxford | 8.7 |
| 437 | World Journal of Mens Health | World Journal of Mens Health | 4 |
| 438 | World Psychiatry | Wiley | 60.5 |
| 439 | Yale Law Journal | Yale Law Journal | 5.2 |

TABLE A2 | Selected middle-ranking IF journals.

| | Journal | Publishers | Impact factor (2024) |
|----|---|--|----------------------|
| 1 | 3 Biotech | Springer Nature | 2.9 |
| 2 | ACM Transactions on Embedded Computing Systems | ACM | 2.6 |
| 3 | ACM Transactions on Storage | ACM | 2.6 |
| 4 | Acta Diabetologica | Springer Nature | 2.9 |
| 5 | Advanced NanoBiomed Research | Wiley | 4.4 |
| 6 | Advanced Therapeutics | Wiley | 2.6 |
| 7 | Advances in Aerodynamics | Springer Nature | 2.3 |
| 8 | Advances in Weed Science | Advances in Weed Science | 1.6 |
| 9 | AIDS Research and Therapy | BMC | 2.5 |
| 10 | Algebra and Logic | Springer Nature | 0.7 |
| 11 | American Journal of Critical Care | American Association of Critical-Care Nurses | 2.2 |
| 12 | Anaesthesiology Intensive Therapy | Anaesthesiology Intensive Therapy | 1.7 |
| 13 | Andean Geology | Andean Geology | 1.2 |
| 14 | Angiology | SAGE | 2.2 |
| 15 | Applied Composite Materials | Springer Nature | 2.9 |
| 16 | Applied Spectroscopy | SAGE | 2.2 |
| 17 | Archaeofauna | Archaeofauna | 0.6 |
| 18 | Archives of Virology | Springer Nature | 2.6 |
| 19 | Arqueologia | Arqueologia | 0.6 |
| 20 | Arthropod-Plant Interactions | Springer Nature | 1.3 |
| 21 | Augmentative and Alternative Communication | Taylor & Francis | 1.6 |
| 22 | Australian Literary Studies | Australian Literary Studies | 0.2 |
| 23 | Autex Research Journal | De Gruyter | 1.6 |
| 24 | Basic and Clinical Andrology | BMC | 2.0 |
| 25 | Behavioural Medicine | Taylor & Francis | 2.2 |
| 26 | Beilstein Journal of Organic Chemistry | Beilstein | 2.1 |
| 27 | Biological Agriculture & Horticulture | Taylor & Francis | 1.6 |
| 28 | Biology Open | The Company of Biologists | 1.7 |
| 29 | Biomedical Engineering and Computational Biology | SAGE | 3.1 |
| 30 | Biometrics | Oxford | 1.7 |
| 31 | BioPsychoSocial Medicine | BMC | 2.4 |
| 32 | Bioscience of Microbiota Food and Health | Bioscience of Microbiota Food and Health | 3.0 |
| 33 | BJGP Open | Royal College of General Practitioners | 2.1 |
| 34 | Blood Purification | Karger | 2.0 |
| 35 | BMC Musculoskeletal Disorders | BMC | 2.4 |
| 36 | BMJ Surgery Interventions & Health Technologies | BMJ | 1.6 |
| 37 | Boundary 2-An International Journal of Literature and Culture | Duke | 0.8 |
| 38 | Breastfeeding Medicine | Mary Ann Liebert | 1.8 |

(Continues)

TABLE A2 | (Continued)

| | Journal | Publishers | Impact factor (2024) |
|----|---|--------------------------------------|----------------------|
| 39 | British Journal of Nutrition | Cambridge | 3.0 |
| 40 | British Journal of Oral & Maxillofacial Surgery | Elsevier | 1.9 |
| 41 | Building Acoustics | SAGE | 1.9 |
| 42 | Cahiers Victoriens & Edouardiens | OpenEdition Journals | 0.3 |
| 43 | Canadian Journal of Film Studies-Revue Canadienne d'Etudes Cinématographiques | University of Toronto Press | 0.2 |
| 44 | Catedral Tomada-Revista de Critica Literaria Latinoamericana-Journal of Latin American Literary Criticism | Pitt Open Library Publishing | 0.1 |
| 45 | Cellulose Chemistry and Technology | Cellulose Chemistry and Technology | 1.1 |
| 46 | Ceska Literatura | Ceska Literatura | 0.1 |
| 47 | Chemistry Teacher International | De Gruyter | 1.6 |
| 48 | ChemMedChem | Wiley | 3.4 |
| 49 | ChemPhysChem | Wiley | 2.1 |
| 50 | Child Care in Practice | Taylor & Francis | 1.4 |
| 51 | China and WTO Review | China and WTO Review | 0.6 |
| 52 | China Ocean Engineering | Springer Nature | 2.2 |
| 53 | Chinese Geographical Science | Springer Nature | 3.1 |
| 54 | Chinese Sociological Review | Taylor & Francis | 1.4 |
| 55 | Choreographic Practices | Intellect Discover | 0.2 |
| 56 | Classical and Quantum Gravity | IOP Publishing | 3.7 |
| 57 | Clean Technologies | MDPI | 4.7 |
| 58 | Cleaner Waste Systems | Elsevier | 3.9 |
| 59 | Clinical Child Psychology and Psychiatry | SAGE | 2.0 |
| 60 | Clinical Journal of Sport Medicine | LWW Journals/Wolters Kluwer | 1.8 |
| 61 | Clinical Respiratory Journal | Wiley | 2.3 |
| 62 | Clinical Transplantation | Wiley | 1.9 |
| 63 | ClinicoEconomics and Outcomes Research | Taylor & Francis | 2.2 |
| 64 | Coatings | MDPI | 2.8 |
| 65 | Cognitive Linguistic Studies | John Benjamins Publishing Company | 0.4 |
| 66 | Communist and Post-Communist Studies | University of California Press | 1.3 |
| 67 | Comparative Drama | Comparative Drama | 0.2 |
| 68 | Complexity | Wiley | 1.7 |
| 69 | Computational Materials Science | Elsevier | 3.3 |
| 70 | Computers & Fluids | Elsevier | 2.9 |
| 71 | Conservation Genetics | Springer Nature | 1.7 |
| 72 | Corrosion Reviews | De Gruyter | 3.2 |
| 73 | CRANIO-The Journal of Craniomandibular & Sleep Practice | Taylor & Francis | 1.9 |
| 74 | Cryptogamie Mycologie | Muséum national d'Histoire naturelle | 2.7 |
| 75 | Current Opinion in Genetics & Development | Elsevier | 3.6 |

(Continues)

TABLE A2 | (Continued)

| | Journal | Publishers | Impact factor (2024) |
|-----|--|--|----------------------|
| 76 | Current Transplantation Reports | Springer Nature | 1.6 |
| 77 | Current Tropical Medicine Reports | Springer Nature | 2.0 |
| 78 | Dance Research | Edinburgh University Press | 0.4 |
| 79 | Deep-Sea Research Part I-Oceanographic Research Papers | Elsevier | 2.1 |
| 80 | Dermatologica Sinica | LWW Journals/Wolters Kluwer | 2.2 |
| 81 | Developmental Biology | Elsevier | 2.1 |
| 82 | Developmental Dynamics | Wiley | 1.5 |
| 83 | Digital Health | SAGE | 3.4 |
| 84 | Discover Psychology | Springer Nature | 1.6 |
| 85 | Documenta Mathematica | EMS Press | 0.7 |
| 86 | Drug Testing and Analysis | Wiley | 2.7 |
| 87 | Educational Measurement-Issues and Practice | Wiley & National Council on Measurement in Education | 1.9 |
| 88 | Eikon Imago | Eikon Imago | 0.1 |
| 89 | Emergency Medicine Australasia | Wiley & Academy College for Emergency Medicine | 1.5 |
| 90 | Emerita | Consejo Superior de Investigaciones Científicas | 0.1 |
| 91 | English Language & Linguistics | Cambridge | 1.0 |
| 92 | Entertainment Computing | Elsevier | 2.4 |
| 93 | Environmental Pollutants and Bioavailability | Taylor & Francis | 3.2 |
| 94 | Epilepsia Open | Wiley & ILAE | 2.9 |
| 95 | Episodes | International Union of Geological Sciences | 2.2 |
| 96 | EPL | IOP Publishing & EPL | 1.8 |
| 97 | Ergonomics | Taylor & Francis | 2.3 |
| 98 | Espana Mediaeval | Universidad Complutense de Madrid | 0.2 |
| 99 | Eugene O Neill Review | Penn State University Press | 0.1 |
| 100 | European Annals of Allergy and Clinical Immunology | European Annals of Allergy and Clinical Immunology | 2.3 |
| 101 | European Journal of Social Theory | SAGE | 1.4 |
| 102 | European Journal of Training and Development | Emerald Publishing | 2.8 |
| 103 | European Review | Cambridge | 0.6 |
| 104 | Experimental Techniques | Springer Nature | 1.9 |
| 105 | Expository Times | SAGE | 0.3 |
| 106 | Family Practice | Oxford | 2.1 |
| 107 | Federal Reserve Bank of St. Louis Review | Federal Reserve Bank of St. Louis | 1.4 |
| 108 | Few-Body Systems | Springer Nature | 1.8 |
| 109 | FIIB Business Review | SAGE | 2.8 |
| 110 | Folia Microbiologica | Springer Nature | 3.1 |
| 111 | Food Additives and Contaminants Part A-Chemistry Analysis Control Exposure & Risk Assessment | Taylor & Francis | 2.3 |
| 112 | Forest Science | Springer Nature | 1.4 |

(Continues)

TABLE A2 | (Continued)

| | Journal | Publishers | Impact factor (2024) |
|-----|---|--|----------------------|
| 113 | Fuel Cells | Wiley & EuChemS | 3.2 |
| 114 | Future Medicinal Chemistry | Taylor & Francis | 3.4 |
| 115 | Gastroenterology Review-Przeglad Gastroenterologiczny | Gastroenterology Review | 2.5 |
| 116 | General Relativity and Gravitation | Springer Nature | 2.8 |
| 117 | Geomechanics and Engineering | Taylor & Francis | 2.4 |
| 118 | Gerontology | Karger | 3 |
| 119 | Giornale Storico Della Literatura Italiana | Loescher | 0.1 |
| 120 | Grassland and Science | Wiley | 1.1 |
| 121 | Group Dynamics-Theory Research and Practice | American Psychological Association | 2.2 |
| 122 | Histochemistry and Cell Biology | Springer Nature | 2.1 |
| 123 | IEEE Transactions on Nanotechnology | IEEE | 2.5 |
| 124 | IET Collaborative Intelligent Manufacturing | Wiley & Institution of Engineering and Technology | 3.1 |
| 125 | IET Intelligent Transport Systems | Wiley & Institution of Engineering and Technology | 2.5 |
| 126 | IET Quantum Communication | Wiley & Institution of Engineering and Technology | 2.8 |
| 127 | Immunologic Research | Springer Nature | 3.1 |
| 128 | Indian Journal of Psychological Medicine | SAGE | 2 |
| 129 | Industrial Relations Journal | Wiley | 1.5 |
| 130 | Infectious Agents and Cancer | BMC | 2.8 |
| 131 | Information Technology and Libraries | ACM | 1.3 |
| 132 | Innovation and Development | Taylor & Francis | 1.7 |
| 133 | Interiors-Design Architecture Culture | Taylor & Francis | 0.3 |
| 134 | International Communication Gazette | SAGE | 1.4 |
| 135 | International Forum of Psychoanalysis | Taylor & Francis | 0.4 |
| 136 | International Indigenous Policy Journal | International Indigenous Policy Journal | 1 |
| 137 | International Journal for Parasitology-Parasites and Wildlife | Elsevier | 2.2 |
| 138 | International Journal for Quality in Health Care | Oxford | 2.2 |
| 139 | International Journal of Adolescence and Youth | Taylor & Francis | 2.2 |
| 140 | International Journal of Advanced Manufacturing Technology | Springer Nature | 3.1 |
| 141 | International Journal of Applied Psychoanalytic Studies | Wiley | 0.4 |
| 142 | International Journal of Art Therapy | Taylor & Francis & British Association of Art Therapists | 1.5 |
| 143 | International Journal of Building Pathology and Adaptation | Emerald Publishing | 2.1 |
| 144 | International Journal of Building Pathology and Adaptation | Emerald Publishing | 2.1 |
| 145 | International Journal of Developmental Disabilities | Taylor & Francis | 1.4 |
| 146 | International Journal of Educational Research and Innovation | International Journal of Educational Research and Innovation | 1.2 |

(Continues)

TABLE A2 | (Continued)

| | Journal | Publishers | Impact factor (2024) |
|-----|--|--|----------------------|
| 147 | International Journal of Engine Research | SAGE | 2.1 |
| 148 | International Journal of Industrial Ergonomics | Elsevier | 3 |
| 149 | International Journal of Laboratory Haematology | Wiley | 2.3 |
| 150 | International Journal of Multimedia Information Retrieval | Springer Nature | 2.9 |
| 151 | International Journal of Nonlinear Sciences and Numerical Simulation | De Gruyter | 1.5 |
| 152 | International Journal of Older People Nursing | Wiley | 2 |
| 153 | International Journal of Paleopathology | Elsevier | 1.5 |
| 154 | International Journal of Phytoremediation | Taylor & Francis | 3.1 |
| 155 | International Journal of Public Opinion Research | Oxford | 1.3 |
| 156 | International Journal of Remote Sensing | Taylor & Francis | 2.6 |
| 157 | International Journal of Social Robotics | Springer Nature | 3 |
| 158 | International Journal of Water Resources Development | Taylor & Francis | 2.2 |
| 159 | International Review of Scottish Studies | Edinburgh University Press | 0.2 |
| 160 | IoT | MDPI | 2.8 |
| 161 | Iranian Journal of Basic Medical Sciences | Iranian Journal of Basic Medical Sciences | 2.7 |
| 162 | Iranian Journal of Science and Technology Transaction A-Science | Springer Nature | 1.4 |
| 163 | Iranian Polymer Journal | Springer Nature | 2.9 |
| 164 | ISIJ International | ISIJ International | 1.8 |
| 165 | Isogloss Open Journal of Romance Linguistics | Universitat Autònoma de Barcelona | 0.4 |
| 166 | JAMIA Open | Oxford | 3.4 |
| 167 | JCO Clinical Cancer Informatics | American Society of Clinical Oncology | 2.8 |
| 168 | JMIR Cardio | JMIR Publications | 2.2 |
| 169 | Journal of Advanced Veterinary and Animal Research | Journal of Advanced Veterinary and Animal Research | 1.5 |
| 170 | Journal of Aerosol Science | Elsevier | 2.9 |
| 171 | Journal of African Media Studies | Intellect Discover | 0.8 |
| 172 | Journal of Ageing Studies | Elsevier | 2 |
| 173 | Journal of Animal and Feed Sciences | Journal of Animal and Feed Sciences | 1.5 |
| 174 | Journal of Applied Biomaterials & Functional Materials | SAGE | 3.1 |
| 175 | Journal of Applied Research in Intellectual Disabilities | Wiley | 1.9 |
| 176 | Journal of Aquatic Animal Health | Oxford | 1.7 |
| 177 | Journal of Attention Disorders | SAGE | 2.2 |
| 178 | Journal of Bioethical Inquiry | Springer Nature | 1.5 |
| 179 | Journal of Biological Dynamics | Taylor & Francis | 2.2 |
| 180 | Journal of Biomolecular NMR | Springer Nature | 1.9 |
| 181 | Journal of British and Irish Innovative Poetry | Journal of British and Irish Innovative Poetry | 0.1 |
| 182 | Journal of British Cinema and Television | Edinburgh University Press | 0.2 |
| 183 | Journal of Chemistry | Wiley | 2.6 |

(Continues)

TABLE A2 | (Continued)

| | Journal | Publishers | Impact factor (2024) |
|-----|---|--|----------------------|
| 184 | Journal of Child Health Care | SAGE | 1.6 |
| 185 | Journal of Clinical Pathology | BMJ | 2 |
| 186 | Journal of Commonwealth Literature | SAGE | 0.2 |
| 187 | Journal of Computational and Nonlinear Dynamics | American Society of Mechanical Engineers | 2.1 |
| 188 | Journal of Crustacean Biology | Oxford | 1.2 |
| 189 | Journal of Eastern African Studies | Taylor & Francis | 0.6 |
| 190 | Journal of Educational and Behavioural Statistics | SAGE | 1.7 |
| 191 | Journal of Electromyography and Kinesiology | Elsevier | 2.3 |
| 192 | Journal of Environmental Policy & Planning | Taylor & Francis | 2.2 |
| 193 | Journal of Ethnic & Cultural Diversity in Social Work | Taylor & Francis | 1.2 |
| 194 | Journal of Evolutionary Biology | Oxford | 2.3 |
| 195 | Journal of Experimental Child Psychology | Elsevier | 2 |
| 196 | Journal of Family Issues | SAGE | 1.4 |
| 197 | Journal of Fluency Disorders | Elsevier | 1.4 |
| 198 | Journal of Food Quality | Wiley | 2.9 |
| 199 | Journal of Gambling Studies | Springer Nature | 2.3 |
| 200 | Journal of Gender Studies | Taylor & Francis | 1.5 |
| 201 | Journal of Genetic Counselling | Wile | 1.9 |
| 202 | Journal of Health Organisation and Management | Emerald Publishing | 2.2 |
| 203 | Journal of Herbal Medicine | Elsevier | 1.9 |
| 204 | Journal of Human Lactation | SAGE | 1.8 |
| 205 | Journal of Imaging | MDPI | 3.3 |
| 206 | Journal of Immigrant & Refugee Studies | Taylor & Francis | 1.5 |
| 207 | Journal of Infrastructure Systems | American Society of Civil Engineers | 2.2 |
| 208 | Journal of Inorganic Materials | Journal of Inorganic Materials | 1.6 |
| 209 | Journal of Interpersonal Violence | SAGE | 2.3 |
| 210 | Journal of Irrigation and Drainage Engineering | American Society of Civil Engineers | 2.1 |
| 211 | Journal of Laboratory Medicine | De Gruyter | 1.8 |
| 212 | Journal of Law Medicine & Ethics | Cambridge | 1.7 |
| 213 | Journal of Magnetic Resonance | Elsevier | 1.9 |
| 214 | Journal of Magnetic Resonance Open | Elsevier | 2.1 |
| 215 | Journal of Mathematical Psychology | Elsevier | 1.6 |
| 216 | Journal of Medical Ultrasonics | Springer Nature | 2.1 |
| 217 | Journal of Morphology | Springer Nature | 1.4 |
| 218 | Journal of Nanotechnology | BMC | 4.1 |
| 219 | Journal of Ophthalmology | Wiley | 1.9 |
| 220 | Journal of Organometallic Chemistry | Elsevier | 2.4 |
| 221 | Journal of Orthopaedic Trauma | LWW Journals/Wolters Kluwer | 1.8 |
| 222 | Journal of Philosophy of Education | Oxford | 0.7 |
| 223 | Journal of Plant Nutrition | Taylor & Francis | 1.7 |

(Continues)

TABLE A2 | (Continued)

| | Journal | Publishers | Impact factor (2024) |
|-----|---|--|----------------------|
| 224 | Journal of Plant Nutrition and Soil Science | Wiley | 2.8 |
| 225 | Journal of Political Power | Taylor & Francis | 1.3 |
| 226 | Journal of Studies on Alcohol and Drugs | Journal of Studies on Alcohol and Drugs | 2.3 |
| 227 | Journal of Systems Engineering and Electronics | IEEE | 2.1 |
| 228 | Journal of the American Oil Chemists Society | Wiley & American Oil Chemists Society | 2.3 |
| 229 | Journal of the American Society for Mass Spectrometry | American Chemistry Society | 2.7 |
| 230 | Journal of the Astronautical Sciences | Springer Nature | 1.5 |
| 231 | Journal of the Experimental Analysis of Behaviour | Wiley | 1.9 |
| 232 | Journal of the History of Biology | Springer Nature | 0.6 |
| 233 | Journal of the Royal Statistical Society Series A-Statistics in Society | Oxford | 1.6 |
| 234 | Journal of Thermal Stresses | Taylor & Francis | 2.3 |
| 235 | Journal of Transportation Engineering Part B-Pavements | American Society of Civil Engineers | 2.5 |
| 236 | Journal of Urban Affairs | Taylor & Francis | 1.9 |
| 237 | Journal of Venomous Animals and Toxins including Tropical Diseases | Journal of Venomous Animals and Toxins including Tropical Diseases | 2.0 |
| 238 | Journal of Wine Economics | Cambridge | 1.5 |
| 239 | Keats-Shelley Review | Taylor & Francis | 0.1 |
| 240 | Labour and Industry | Taylor & Francis | 1.5 |
| 241 | Landscape Architecture and Art | Latvia University of Life Sciences and Technologies | 0.3 |
| 242 | Laryngo-Rhino-Otologie | Thieme Publisher | 1.4 |
| 243 | Law and Philosophy | Springer Nature | 0.6 |
| 244 | Learning and Motivation | Elsevier | 1.8 |
| 245 | Legacy | University of Nebraska Press | 0.2 |
| 246 | Limnology and Oceanography-Methods | Wiley & Association for the Sciences of Limnology and Oceanography | 1.9 |
| 247 | Marine Georesources & Geotechnology | Taylor & Francis | 2.2 |
| 248 | Materials for Quantum Technology | IOP Publishing | 3.6 |
| 249 | Materials Letters | Elsevier | 2.7 |
| 250 | Measurement in Physical Education and Exercise Science | Taylor & Francis | 1.9 |
| 251 | Mechanics Research Communications | Elsevier | 2.3 |
| 252 | Medeniyet Medical Journal | Medeniyet Medical Journal | 1.1 |
| 253 | Medical Anthropology Quarterly | Wiley & American Anthropological Association | 1.9 |
| 254 | Medical Microbiology and Immunology | Springer Nature | 3.0 |
| 255 | Medicine Science and the Law | SAGE | 1.7 |
| 256 | Mental Health & Prevention | Elsevier | 2.4 |
| 257 | Metal Music Studies | Intellect Discover | 0.2 |
| 258 | Mining Metallurgy & Exploration | Springer Nature | 2 |
| 259 | Multiscale Modelling & Simulation | Society for Industrial and Applied Mathematics | 1.6 |

(Continues)

TABLE A2 | (Continued)

| | Journal | Publishers | Impact factor (2024) |
|-----|---|---|----------------------|
| 260 | Mycopathologia | Springer Nature | 2.9 |
| 261 | National Academy Science Letters-India | Springer Nature | 1.3 |
| 262 | Naval Research Logistics | Wiley | 2.1 |
| 263 | Nephron | Karger | 2.0 |
| 264 | Neue Rundschau | S. Fischer | 0.1 |
| 265 | Neurological Clinics | Elsevier | 2.9 |
| 266 | Neuropsychologia | Elsevier | 2 |
| 267 | Neuroradiology | Springer Nature | 2.6 |
| 268 | Neurosurgical Review | Springer Nature | 2.5 |
| 269 | New Astronomy | Elsevier | 2.1 |
| 270 | New Zealand Geographer | Wiley | 1.2 |
| 271 | NMR in Biomedicine | Wiley | 2.7 |
| 272 | Nordic Pulp & Paper Research Journal | De Gruyter | 1.2 |
| 273 | Nuclear Physics A | Elsevier | 2.5 |
| 274 | Numerical Algebra Control and Optimization | American Institute of Mathematical Sciences | 1.1 |
| 275 | Ocean Modelling | Elsevier | 2.9 |
| 276 | Oceans-Switzerland | MDPI | 1.6 |
| 277 | Open Access Emergency Medicine | Taylor & Francis | 1.5 |
| 278 | Ophthalmologica | Karger | 1.9 |
| 279 | Optics Communications | Elsevier | 2.5 |
| 280 | Ostrich | Taylor & Francis | 1.1 |
| 281 | Paddy and Water Environment | Springer Nature | 2.1 |
| 282 | Palaeontologica Electronica | Palaeontologica Electronica | 1.5 |
| 283 | Parasite Immunology | Wiley | 2.1 |
| 284 | Particles | MDPI | 2.3 |
| 285 | Paediatric Anaesthesia | Wiley | 1.7 |
| 286 | Paediatric Physical Therapy | LWW Journals/Wolters Kluwer | 1.5 |
| 287 | Paediatric Rheumatology | BMC | 2.4 |
| 288 | Paediatrics in Review | American Academy of Paediatrics | 1.6 |
| 289 | Pensamiento | Pensamiento | 0.2 |
| 290 | Personal Relationships | Wiley | 2.2 |
| 291 | Petroleum Science and Technology | Taylor & Francis | 1.4 |
| 292 | PFG-Journal of Photogrammetry Remote Sensing and Geoinformation Science | Springer Nature | 3.3 |
| 293 | Philologus | De Gruyter | 0.1 |
| 294 | Photodermatology Photoimmunology & Photomedicine | Wiley | 2.2 |
| 295 | Physica B-Condensed Matter | Elsevier | 2.8 |
| 296 | Physics and Chemistry of Minerals | Springer Nature | 1.6 |
| 297 | Physiological Genomics | American Physiological Society | 2.5 |
| 298 | Physiological Measurement | IOP Publishing | 2.7 |

(Continues)

TABLE A2 | (Continued)

| | Journal | Publishers | Impact factor (2024) |
|-----|---|--|----------------------|
| 299 | Physiology International | AK Journals | 2.3 |
| 300 | Plant Reproduction | Springer Nature | 2.5 |
| 301 | Polymer-Plastics Technology and Materials | Taylor & Francis | 2.9 |
| 302 | Population | Population | 1.5 |
| 303 | Precision Radiation Oncology | SciOpen | 2.1 |
| 304 | Proceedings of the Institution of Mechanical Engineers Part M-Journal of Engineering for the Maritime Environment | SAGE | 1.5 |
| 305 | Progress in Crystal Growth and Characterisation of Materials | Elsevier | 1.9 |
| 306 | Public Administration and Development | Wiley | 2.1 |
| 307 | Public Culture | Duke | 0.9 |
| 308 | Public Money & Management | Taylor & Francis | 2.1 |
| 309 | Punishment & Society-International Journal of Penology | SAGE | 1.4 |
| 310 | Pure and Applied Geophysics | Springer Nature | 1.9 |
| 311 | Race and Social Problems | Springer Nature | 1.4 |
| 312 | Radiochimica Acta | De Gruyter | 1.7 |
| 313 | Rairo-Operations Research | EDP Sciences | 2.1 |
| 314 | Regenerative Therapy | Elsevier | 3.5 |
| 315 | Regional Science and Urban Economics | Elsevier | 2.9 |
| 316 | Reproductive Sciences | Springer Nature | 2.5 |
| 317 | Reproductive Toxicology | Elsevier | 2.8 |
| 318 | Research in Learning Technology | Association of Learning Technology | 1.2 |
| 319 | Revista Brasileira de Entomologica | Scientific Electronic Library Online (SciELO) | 1.3 |
| 320 | Revista Brasileira de Historia | Scientific Electronic Library Online (SciELO) | 0.3 |
| 321 | Revistade de Saude Publica | Scientific Electronic Library Online (SciELO) | 2.1 |
| 322 | Revstat-Statistical Journal | Instituto Nacional De Estatistica | 1.2 |
| 323 | Robotica | Cambridge | 3 |
| 324 | Russian Journal of Mathematical Physics | Springer Nature | 1.5 |
| 325 | Samuel Beckett Today/Aujourd'hui | Brill | 0.1 |
| 326 | Scandinavian Journal of Forest Research | Taylor & Francis | 1.5 |
| 327 | Science & Justice | Elsevier | 2 |
| 328 | SIAM Journal on Imaging Sciences | SIAM | 2.3 |
| 329 | Silicon | Springer Nature | 3.3 |
| 330 | Social Network Analysis and Mining | Springer Nature | 2.8 |
| 331 | Social Science Information Sur Les Sciences Sociales | SAGE | 1.3 |
| 332 | Software Quality Journal | Springer Nature | 2.3 |
| 333 | Soldering & Surface Mount Technology | Emerald Publishing | 1.8 |
| 334 | Solid State Ionics | Elsevier | 3.3 |

(Continues)

TABLE A2 | (Continued)

| | Journal | Publishers | Impact factor (2024) |
|-----|--|---|----------------------|
| 335 | SPE Production & Operations | Society of Petroleum Engineers | 1.3 |
| 336 | Stanislavski Studies | Taylor & Francis | 0.2 |
| 337 | Statistics and Computing | Springer Nature | 1.6 |
| 338 | Stem Cells International | Wiley | 3.3 |
| 339 | Sterotactic and Functional Neurosurgery | Karger | 2.4 |
| 340 | Studia Logica | Springer Nature | 0.6 |
| 341 | Sungkyun Journal of East Asian Studies | Duke | 0.3 |
| 342 | Sustainable Environment Research | BMC | 4.7 |
| 343 | Systems Biology in Reproductive Medicine | Taylor & Francis | 2.2 |
| 344 | Therapeutic Advances in Cardiovascular Disease | SAGE | 2.2 |
| 345 | Thoracic Cancer | Wiley | 2.3 |
| 346 | Toxicon-X | Elsevier | 2.8 |
| 347 | Transforming Anthropology | Wiley & Association of Black Anthropologists | 0.9 |
| 348 | Translation and Translanguaging in Multilingual Contexts | John Benjamins Publishing Company | 1.0 |
| 349 | Transportation | Springer Nature | 3.3 |
| 350 | Trauma Surgery & Acute Care Open | BMJ | 2.2 |
| 351 | Turkish Journal of Fisheries and Aquatic Sciences | Turkish Journal of Fisheries and Aquatic Sciences | 1.7 |
| 352 | Ultramicrobiology | Elsevier | 2 |
| 353 | Universal Access in the Information Society | Springer Nature | 2.7 |
| 354 | Utilities Policy | Elsevier | 4.4 |
| 355 | Vadose Zone Journal | Wiley & ACSESS | 2.8 |
| 356 | Veterinary Ophthalmology | Wiley | 1.3 |
| 357 | Veterinary Surgery | Wiley | 1.3 |
| 358 | Virus Research | Elsevier | 2.6 |
| 359 | Vox Patrum | Katolicki Uniwersytet Lubelski Jana Pawla II Press | 0.2 |
| 360 | Women & Health | Taylor & Francis | 1.4 |
| 361 | World Bank Economic Review | Oxford | 1.8 |
| 362 | Zeitschrift fur Empirische Kulturwissenschaft | Deutschen Gesellschaft für Empirische Kulturwissenschaft e.V. | 0.1 |
| 363 | Zeitschrift Fur Germanistik | Humboldt-Universitat Zu Berlin | 0.1 |

TABLE A3 | Concepts and categories.

| Categories | Concepts | Representative policy texts | Source |
|-----------------------------|---|---|-----------------------------------|
| A1 Human behaviour | The evaluation of manuscripts by editors must be attributed to humans | Managing the editorial evaluation of a scientific manuscript implies responsibilities that can only be attributed to humans. | Elsevier |
| | Peer review reports must be based on reviewer's own knowledge and expertise | Editors select peer reviewers primarily because of their in-depth knowledge of the subject matter or methods of the work they are asked to evaluate. | Springer Nature |
| | Peer review reports must be written by humans | Moreover, the peer review process is a human endeavour and responsibility and accountability for submitting a peer review report | Wiley |
| A2 Accountability | Peer review process inherently entails responsibilities | Reviewing a scientific manuscript implies responsibilities that can only be attributed to humans. | Elsevier |
| A3 Confidential information | Confidential information about the manuscripts and the authors | This confidentiality requirement extends to peer reviewers' comments as they may contain confidential information about the paper and/or the authors. | Lancet |
| | Privileged information or ideas | Privileged information or ideas obtained through peer review must be kept confidential | AIP |
| A4 Confidential process | Confidential manuscript | Papers or proposals that are sent out for review are confidential documents | Cambridge University Press |
| | Confidential peer review report | A reviewer should treat both the manuscript and data received from the journal, their review report, and related correspondence, as confidential | ACS |
| | Confidential correspondence | This confidentiality requirement extends to all communication about the manuscript including any notification or decision letters | SciOpen/Tsinghua University Press |
| A5 Bias | Unbiased evaluation by editor | An editor should give prompt and unbiased consideration to all manuscripts offered for publication | AIP |
| | Unbiased peer review process by reviewers | ACM requires that the peer review process and related decisions be free of bias. | ACM |
| A6 Objective | Reviewers should judge objectively | Reviewers should judge objectively the quality of the research reported and respect the intellectual independence of the authors. | AIP |
| | Reviewers must prepare their report independently | Reviewers must prepare their report by themselves, unless they have permission from the journal to involve another person. | Taylor & Francis |
| | Respect the intellectual independence of the authors | Reviewers should judge objectively the quality of the research reported and respect the intellectual independence of the authors. | AIP |
| A7 Integrity | Maintain the integrity of the peer review process | maintain the integrity of the peer review process and uphold a fair evaluation of the scientific manuscript | AIP |
| | The peer review process operates on a principle of mutual trust | the peer review process operates on a principle of mutual trust between authors, reviewers and editors | Springer Nature |

(Continues)

TABLE A3 | (Continued)

| Categories | Concepts | Representative policy texts | Source |
|---------------------------|---|---|---------------------------|
| A8 Professional comments | Reviewer should provide professional comments | The quality and integrity of the peer review process requires that the reviewer be a qualified expert in the subject matter of the submission. | ACM |
| | Point out uncited relevant work | Reviewers should point out relevant published work that has not been cited by the authors. | AIP |
| A9 Lack of ability | Lack up-to-date knowledge | Despite rapid progress, generative AI tools have considerable limitations: they can lack up-to-date knowledge and may produce nonsensical, biased or false information. | Springer Nature |
| | Unable to capture the reviewer's experience | While LLMs can create a critical summary that would look like a review report, it is unlikely to be able to capture the reviewer's experience as a researcher in the field, any local or contextual nuances of the study or indeed what impact the study may have on various populations. | SAGE |
| | Do not have the critical thinking and original assessment | The critical thinking and original assessment needed for peer review is outside of the scope of this technology | Lancet |
| A10 Confidentiality risks | Generate incorrect, incomplete or biased conclusions | There is a risk that the technology will generate incorrect, incomplete or biased conclusions about the manuscript. | Elsevier |
| | Requires substantial and detailed information inputs | The use of generative AI tools to output a peer reviewer critique on a specific grant application or contract proposal requires substantial and detailed information inputs. | NIH |
| | AI tools may store or use uploaded information | Third party services such as AI tools may store or use any information provided as a prompt to generate future text | ACS |
| A11 Accountability gaps | No guarantee of where data are being sent, saved, viewed, or used in the future | AI tools have no guarantee of where data are being sent, saved, viewed, or used in the future | NIH |
| | Generated conclusion lacks citations or quotes | Generative AI is often lacking the standard practice of the global scholarly community of correctly and precisely attributing ideas, quotes, or citations. | Taylor & Francis |
| | Lack the ability or comprehension to assume responsibility for work | Generative AI models are not subject experts as they lack the ability or comprehension to assume responsibility for work they have helped create and are therefore unable to adhere to the ethical standards set out by IOP Publishing. | IOP Publishing |
| A12 Rapid development | Do not have the legal personality | Furthermore, generative AI models do not have the legal personality to sign publishing agreements or licences. | IOP Publishing |
| | AI models are rapidly evolving | Large Language Models, such as ChatGPT, are rapidly evolving | American Physical Society |

(Continues)

TABLE A3 | (Continued)

| Categories | Concepts | Representative policy texts | Source |
|---------------------------|---|---|--------------------------------|
| A13 Significant influence | Widely applied in peer review process | Peer-reviewed medical journals and publishers have been using AI-like tools during the manuscript submission, peer review, and publication processes for some time. | JAMA |
| | Change the nature of publication process | We fully recognise that these evolving technologies are precipitously changing the nature of content creation, generation, review, and assessment and will likely facilitate efficiencies for authors, reviewers, and editors | JAMA |
| | Improve efficiency of reviewers and editors | Elsevier embraces new AI-driven technologies that support reviewers and editors in the editorial process | Elsevier |
| | Critical parts of advancing research | Mary Ann Liebert, publishers, Inc. understands that emerging computing methodologies and tools are critical parts of advancing research. | Mary Ann Liebert |
| A14 Positive response | Providing safe AI tools | Springer Nature explores providing our peer reviewers with access to safe AI tools | Springer Nature |
| | Guidance on accountable and transparent use of such tools | JAMA will continue to provide authors and reviewers with guidance on accountable and transparent use of such tools. | JAMA |
| A15 Regular review | Continue observation of AI's uses | Physical Review Journals continue to observe their uses in creating and modifying text | American Physical Society |
| | Significant variation will be discussed | Any proposed significant variation will be discussed with relevant stakeholders according to the degree of change proposed and those likely to be affected. | BMJ |
| | Policy will be regular review and changed | This policy will be kept under regular review and changed as necessary in light of further technological developments in this area. | SIAM |
| A16 Active treatment | Publishers will investigate potential AI abuse | In cases where the usage of large language models is suspected, APS may employ various means, including manual review, automated analysis, or third-party services, to investigate the authenticity of the reviews. | American Physiological Society |
| | Termination of the reviewer's relationship | Any violation of this policy may result in the termination of the reviewer's relationship with APS. | American Physiological Society |
| A17 Editor responsibility | Editor is responsible and accountable for the editorial process | The editor is responsible and accountable for the editorial process, the final decision and the communication thereof to the authors. | Elsevier |
| | Need for accountability | The Committee on Publication Ethics (COPE) has provided additional guidance for use of AI tools in decision-making in scholarly publication, including the need for accountability and human oversight. | JAMA (COPE) |

(Continues)

TABLE A3 | (Continued)

| Categories | Concepts | Representative policy texts | Source |
|--|--|--|--------------|
| A18 Editor monitoring and evaluation | Editors should evaluate AI abuse | The editor may, at their discretion, determine that the AI use in a given submission is too extensive | ACS |
| | Need for human oversight | The Committee on Publication Ethics (COPE) has provided additional guidance for use of AI tools in decision-making in scholarly publication, including the need for accountability and human oversight. | JAMA (COPE) |
| | Editor should inform the publisher of AI abuse | If an editor suspects that an author or a reviewer has violated our AI policies, they should inform the publisher. | Elsevier |
| | Decline manuscript if AI is used | Editors may decline to move forward with manuscripts if AI is used inappropriately. | AAAS |
| | Evaluate AI generated content tool is appropriate or permissible | The final decision about whether use of an AI generated content tool is appropriate or permissible in a submitted manuscript lies with the journal's editor or other party responsible for the publication's editorial policy. | Wiley (COPE) |
| | Editors should not upload a submitted manuscript or any part of it into a generative AI tool | Editors should not upload a submitted manuscript or any part of it into a generative AI tool as this may violate the authors' confidentiality and proprietary rights and, where the paper contains personally identifiable information, may breach data privacy rights. | Elsevier |
| A19 Confidential requirement for editors | Editors should not disclose any information about a manuscript | The editor and the editorial staff should not disclose any information about a manuscript under consideration to anyone other than reviewers and potential reviewers. | AIP |
| | Editors should not use AI tools to summarise reviews and write decision letters | You should also not use these tools to summarise reviews and write decision letters due to concerns around confidentiality and copyright. | SAGE |
| A20 Editors should not use AI to make decisions | Editors should not use AI tools to assist in the decision-making process | Generative AI or AI-assisted technologies should not be used by editors to assist in the evaluation or decision-making process of a manuscript | Elsevier |
| | Editors could use AI tools to look for reviewers | You could use ChatGPT or other AI based tools to look for reviewers in the subject area. | SAGE |
| | Editors could use AI tools to help inform their editorial assessments | The editors of JAMA and the JAMA Network journals are not using AI tools to make specific editorial decisions on manuscripts but do have a collection of AI-like tools to help inform their editorial assessments. | JAMA |
| A21 Editors could use AI tools to assist their works | Editors could use AI tools to improve the quality of peer review report | A GenAI tool can be used by an editor or peer reviewer to improve the quality of the written feedback in a peer review report. | Wiley |
| | Editors could use AI tools to conduct completeness and plagiarism checks | Please note that Elsevier owns identity protected AI-assisted technologies which conform to the RELX Responsible AI Principles opens in new tab/window, such as those used during the screening process to conduct completeness and plagiarism checks and identify suitable reviewers. | Elsevier |

(Continues)

TABLE A3 | (Continued)

| Categories | Concepts | Representative policy texts | Source |
|--|--|--|--------------------------------|
| A22 Reviewer responsibility | Reviewers should be accountable for peer review reports | Peer reviewers are accountable for the accuracy and views expressed in their reports | Springer Nature |
| A23 Reviewer monitoring and evaluation | Reviewers should evaluate manuscript plagiarism | A reviewer should also call to the editor's attention any substantial similarity between the manuscript under consideration and any published paper or manuscript submitted concurrently to another journal. | AIP |
| | Reviewers should evaluate AI abuse | Reviewers should consider the appropriateness of the use of AI tools when they assess the work | Mary Ann Liebert |
| | Reviewers should evaluate any ethical concerns | The reviewer also has the responsibility of noting any ethical concerns, not limited to but including suspected duplicate publication, fraud, plagiarism, or ethical concerns about the use of animals or humans in the research being reported. | American Heart Association |
| A24 Confidential requirement for reviewers | Reviewers should maintain confidentiality throughout review process | Reviewers are trusted and required to maintain confidentiality throughout the manuscript review process. | RSNA |
| | Reviewers use AI tools could breach the confidentiality | Reviewers may not use AI technology in generating or writing their reviews because this could breach the confidentiality of the manuscript. | AAAS |
| | Reviewers use AI tools could violate privacy and the copyright | could violate the confidentiality of the peer review process, privacy of authors and reviewers, and the copyright of the manuscript under review. | Wiley |
| | Reviewers use AI tools could be a form of peer review misconduct | Sharing with third-party tools such as Large Language Models (for example, ChatGPT) would constitute a breach of confidentiality and a form of peer review misconduct. | Cambridge University Press |
| | Confidential content should be removed prior to uploading into AI tools | Provided any and all parts of the review that would potentially identify the submission, author identities, reviewer identity, or other confidential content is removed prior to uploading into third party tools. | ACM |
| | Reviewers should not upload a submitted manuscript or any part of it into a generative AI tool | Reviewers should not upload any part of the manuscript, its associated files, or reviewer comments to any automated assistive writing technologies and tools (commonly referred to as artificial intelligence or machine learning tools). | American Heart Association |
| A25 AI tools use declaration | Reviewers should communicate before use AI tools | NIH Peer Reviewers must communicate the technology being used with their Designated Federal Officer in charge of the review meeting or other designated NIH official prior to use. | NIH |
| | AI use must be declared in the review report | If such tools are used to improve a peer review report, then they must be transparently declared in the report. | Wiley |
| A26 Prohibition of AI peer review | Reviewers are invaluable and irreplaceable | This expertise is invaluable and irreplaceable. | Springer Nature |
| | Reviewers are prohibited from using AI tools in peer review process | Reviewers are prohibited from using large language models, such as ChatGPT, or any similar AI technology, in the process of constructing their reviews | American Physiological Society |

(Continues)

TABLE A3 | (Continued)

| Categories | Concepts | Representative policy texts | Source |
|--|--|--|--|
| A27 Limited use of AI tools is allowed | GenAI tools should be used only on a limited basis | GenAI tools should be used only on a limited basis in connection with peer review. | Wiley |
| | Reviewers use AI tools in a way that does not violate confidentiality policy | If you used an AI tool as a resource for your review in a way that does not violate the journal's confidentiality policy, you must provide the name of the tool and how it was used. | JAMA |
| | Reviewers could upload manuscript to a safe AI platform | If there is a lucid statement that a platform does not use uploaded data for pre-training, uploading a manuscript for peer review will be no problem. | Journal of Educational Evaluation for Health Professions |
| A28 AI for assistant work is allowed | Grammar and spelling check | This policy does not apply to AI tools solely focused on grammar enhancement, such as grammar and spelling checkers. | American Physiological Society |
| | Data acquisition or analysis | Research that used ML/AI tools for data acquisition or analysis is eligible | American Society of Haematology |
| | Accessibility needs | Computer technologies that are used for accessibility needs may be granted an exception to this policy. | NIH |
| | Editing and grammar enhancement | The use of AI systems for editing and grammar enhancement is common practice and, as such, is generally outside the intent of the above policy. | IEEE |