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AIMS AND SCOPE

The primary aim of *World Journal of Orthopedics* (*WJO*, *World J Orthop*) is to provide scholars and readers from various fields of orthopedics with a platform to publish high-quality basic and clinical research articles and communicate their research findings online.

WJO mainly publishes articles reporting research results and findings obtained in the field of orthopedics and covering a wide range of topics including arthroscopy, bone trauma, bone tumors, hand and foot surgery, joint surgery, orthopedic trauma, osteoarthropathy, osteoporosis, pediatric orthopedics, spinal diseases, spine surgery, and sports medicine.

INDEXING/ABSTRACTING

WJO is now abstracted and indexed in PubMed, PubMed Central, Emerging Sources Citation Index (Web of Science), Scopus, Reference Citation Analysis, China National Knowledge Infrastructure, China Science and Technology Journal Database, and Superstar Journals Database. The 2022 edition of Journal Citation Reports® cites the 2021 Journal Citation Indicator (JCI) for *WJO* as 0.62. The *WJO*'s CiteScore for 2021 is 2.4 and Scopus CiteScore rank 2021: Orthopedics and Sports Medicine is 139/284.

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Baishideng's Reference Citation Analysis database announces the first Journal Article Influence Index of 104 core journals and a list of high-quality academic journals in orthopedics

Jin-Lei Wang, Yu-Jie Ma, Li Ma, Na Ma, Diao-Mei Guo, Lian-Sheng Ma

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Abstract

After three rounds of rigorous evaluation of core journals in orthopedics conducted by the *Reference Citation Analysis (RCA)* editorial team of Baishideng Publishing Group (Baishideng), the *RCA* database of Baishideng officially released the 2022 *Journal Article Influence Index (2022 JAI)* of 104 core journals and a list of high-quality academic journals in orthopedics, for the first time on August 9, 2022. The list of 104 core journals can be found at: <https://www.referencecitationanalysis.com/SearchJournal>. Among them, the highest 2022 *JAI* is 55.015 and the lowest is 3.076. This article introduces the 21 high-quality academic journals and describes the calculation method for the 2022 *JAI*, the evaluation process, and the inclusion principles for journals in the *RCA*. These steps are the underpinning of the *RCA*'s empirical journal academic evaluation service by which the digital platform addresses the needs of authors to select reliable journals for submission, readers to select high-quality literature for reading, and editors to track their own journal citation performance. As such, the *RCA* core journal list will serve as a useful Find-a-Journal tool. Any interested party is welcome to use this journal list and recommend it to their peers.

Key Words: *Reference Citation Analysis*; *Journal Article Influence Index*; Orthopedics; Journal list; Find a journal; Announcement

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Core Tip: The *Reference Citation Analysis (RCA)* database of Baishideng Publishing Group officially released the 2022 *Journal Article Influence Index (2022 JAI)* of 104 core journals and the list of high-quality academic journals in orthopedics, for the first time. This article highlights the top 21 journals, describes the calculation method for the 2022 *JAI*, the evaluation process, and the inclusion principles of *RCA* journals. The *RCA* journal academic evaluation service platform addresses the needs of authors to select reliable journals for submission, readers to select high-quality literature for reading, and editors to track their own journal citation performance, effectively serving as a useful Find-a-Journal tool. You are welcome to use this journal list and recommend it to your peers.

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INTRODUCTION

We are very pleased to announce that the *Reference Citation Analysis (RCA)* database of Baishideng Publishing Group (Baishideng) has, for the first time, officially released the 2022 *Journal Article Influence Index (2022 JAI)* of 104 core journals in the field of orthopedics on August 9, 2022. The detailed information on these 104 core journals in orthopedics can be found at: <https://www.referencecitationanalysis.com/SearchJournal>.

RCA is an AI technology-based open multidisciplinary citation analysis database. As such, *RCA* will lead the development of wisdom, knowledge innovation, and emerging disciplines. The functions of *RCA* include: Find an Article (55334324), Find a Category (254), Find a Journal (14077), Find a Scholar (632), and Find an Academic Assistant (18) (Data collection: August 9, 2022)[1]. *RCA* updates its list of journals daily, according to relevant data including total number of articles, total citations, and the *JAI*. *RCA* acquires the newly released abstracts and references from Crossref and adds them to the *RCA* database weekly. *RCA* also acquires the abstracts and references released that year from Crossref and adds them to the *RCA* database monthly, and then updates the total number of articles, citations, and *JAI*. In this study, we introduce the top 21 journals ranked by the 2022 *JAI* from the total 104 core journals in the field of orthopedics included in *RCA*, the calculation method for the 2022 *JAI*, and the evaluation process and the inclusion principles of *RCA* journals.

TOP 21 JOURNALS RANKED BY THE 2022 JAI IN THE FIELD OF ORTHOPEDICS INCLUDED IN THE RCA

The *RCA* classifies academic journals with a *JAI* of 20.0 or above as high-quality academic journals, which will be highly recommended to authors and readers. There are 104 core journals in the field of orthopedics in the *RCA*, of which 21 were identified to be high-quality academic journals, accounting for 20.2%. These 21 high-quality academic journals, ranked by the *JAI* among the core journals in the field of orthopedics in the *RCA*, are described below.

2022 JAI and rankings of *The Journal of Bone and Joint Surgery-American Volume*

In the *RCA* database, the 2022 *JAI* for *The Journal of Bone and Joint Surgery-American Volume* is 55.015, ranking 1st among 104 core journals in the field of orthopedics included in the *RCA*, with a total of 1110044 citations (1/104) and a total of 20177 articles (2/104) (Figure 1). For more information on *The Journal of Bone and Joint Surgery-American Volume*, please visit: <https://www.referencecitationanalysis.com/SearchJournal>.

2022 JAI and rankings of *The American Journal of Sports Medicine*

In the *RCA* database, the 2022 *JAI* for *The American Journal of Sports Medicine* is 52.976, ranking 2nd among 104 core journals in the field of orthopedics included in the *RCA*, with a total of 589467 citations (4/104) and a total of 11127 articles (6/104) (Figure 2). For more information on *The American Journal of Sports Medicine*, please visit: <https://www.referencecitationanalysis.com/SearchJournal>.

2022 JAI and rankings of *Spine*

In the *RCA* database, the 2022 *JAI* for *Spine* is 44.570, ranking 3rd among 104 core journals in the field of



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Figure 1 2022 Journal Article Influence Index and rankings of *The Journal of Bone and Joint Surgery-American Volume*. The image of the journal cover is originally from the home page of the journal: <https://journals.lww.com/jbjsjournal/pages/default.aspx>.



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Figure 2 2022 Journal Article Influence Index and rankings of *The American Journal of Sports Medicine*. The image of the journal cover is originally from the home page of the journal: <https://journals.sagepub.com/home/ajs>.

orthopedics included in the RCA, with a total of 864839 citations (2/104) and a total of 19404 articles (3/104) (Figure 3). For more information on *Spine*, please visit: <https://www.referencecitationanalysis.com/SearchJournal>.

2022 JAI and rankings of European Cells & Materials

In the RCA database, the 2022 JAI for *European Cells & Materials* is 42.896, ranking 4th among 104 core journals in the field of orthopedics included in the RCA, with a total of 22735 citations (43/104) and a total of 530 articles (90/104) (Figure 4). For more information on *European Cells & Materials*, please visit: <https://www.referencecitationanalysis.com/SearchJournal>.

2022 JAI and rankings of Journal of Orthopaedic Research

In the RCA database, the 2022 JAI for *Journal of Orthopaedic Research* is 35.509, ranking 5th among 104 core journals in the field of orthopedics included in the RCA, with a total of 261809 citations (7/104) and a total of 7373 articles (14/104) (Figure 5). For more information on *Journal of Orthopaedic Research*, please visit: <https://www.referencecitationanalysis.com/SearchJournal>.

2022 JAI and rankings of Physical Therapy & Rehabilitation Journal

In the RCA database, the 2022 JAI for *Physical Therapy & Rehabilitation Journal* is 31.086, ranking 6th among 104 core journals in the field of orthopedics included in the RCA, with a total of 197801 citations (10/104) and a total of 6363 articles (20/104) (Figure 6). For more information on *Physical Therapy & Rehabilitation Journal*, please visit: <https://www.referencecitationanalysis.com/SearchJournal>.

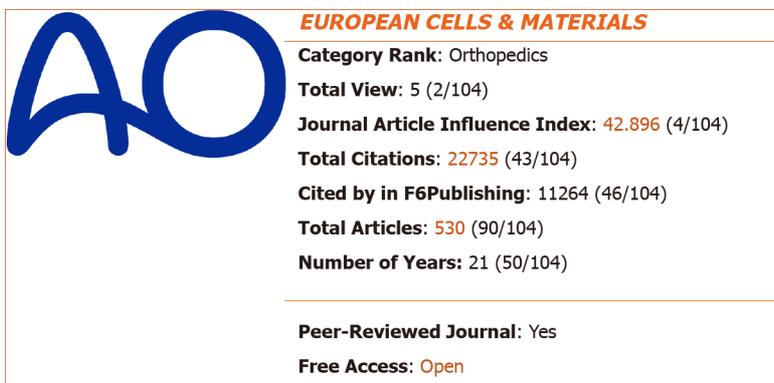
2022 JAI and rankings of Arthroscopy

In the RCA database, the 2022 JAI for *Arthroscopy* is 29.982, ranking 7th among 104 core journals in the field of orthopedics included in the RCA, with a total of 285163 citations (5/104) and a total of 9511 articles (9/104) (Figure 7). For more information on *Arthroscopy*, please visit: <https://www.referencecit->



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Figure 3 2022 Journal Article Influence Index and rankings of Spine. The image of the journal cover is originally from the home page of the journal: <https://journals.lww.com/spinejournal/pages/issueList.aspx>.



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Figure 4 2022 Journal Article Influence Index and rankings of European Cells & Materials. The image of the logo of AO Foundation is originally from the home page of the journal: <http://www.ecmjournals.org/>.



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Figure 5 2022 Journal Article Influence Index and rankings of Journal of Orthopaedic Research. The image of the journal cover is originally from the home page of the journal: <https://onlinelibrary.wiley.com/journal/1554527x>.

[ationanalysis.com/SearchJournal](https://www.referencecitationanalysis.com/SearchJournal).

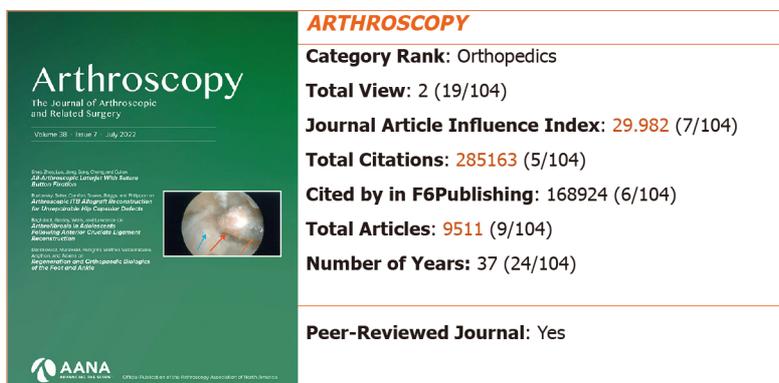
2022 JAI and rankings of Osteoarthritis and Cartilage

In the RCA database, the 2022 JAI for *Osteoarthritis and Cartilage* is 28.691, ranking 8th among 104 core journals in the field of orthopedics included in the RCA, with a total of 194522 citations (12/104) and a total of 6780 articles (18/104) (Figure 8). For more information on *Osteoarthritis and Cartilage*, please visit: <https://www.referencecitationanalysis.com/SearchJournal>.



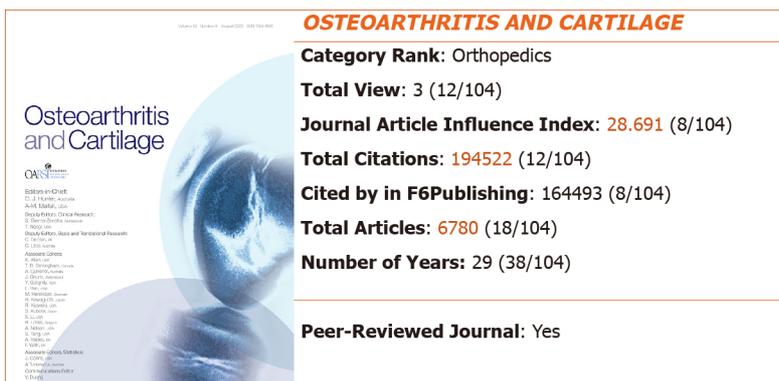
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Figure 6 2022 Journal Article Influence Index and rankings of Physical Therapy & Rehabilitation Journal. The image of the journal cover is originally from the home page of the journal: <https://academic.oup.com/ptj>.



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Figure 7 2022 Journal Article Influence Index and rankings of Arthroscopy. The image of the journal cover is originally from the home page of the journal: <http://www.sciencedirect.com/science/journal/07498063>.



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Figure 8 2022 Journal Article Influence Index and rankings of Osteoarthritis and Cartilage. The image of the journal cover is originally from the home page of the journal: <http://www.sciencedirect.com/science/journal/10634584>.

2022 JAI and rankings of Journal of Shoulder and Elbow Surgery

In the RCA database, the 2022 JAI for *Journal of Shoulder and Elbow Surgery* is 27.384, ranking 9th among 104 core journals in the field of orthopedics included in the RCA, with a total of 195354 citations (11/104) and a total of 7134 articles (16/104) (Figure 9). For more information on *Journal of Shoulder and Elbow Surgery*, please visit: <https://www.referencecitationanalysis.com/SearchJournal>.

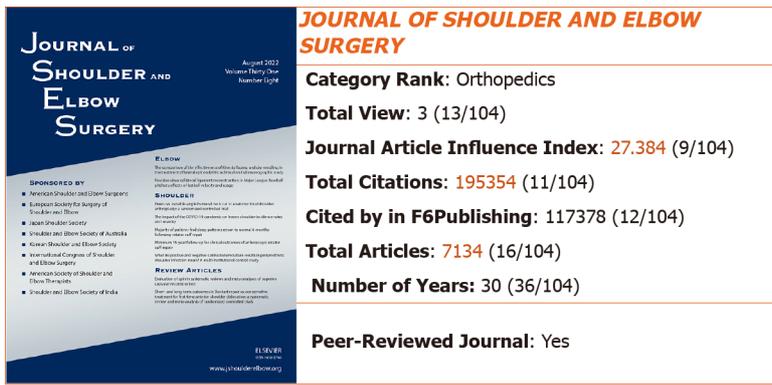


Figure 9 2022 Journal Article Influence Index and rankings of Journal of Shoulder and Elbow Surgery. The image of the journal cover is originally from the home page of the journal: <http://www.sciencedirect.com/science/journal/10582746>.

2022 JAll and rankings of Journal of Orthopaedic & Sports Physical Therapy

In the RCA database, the 2022 JAll for *Journal of Orthopaedic & Sports Physical Therapy* is 26.966, ranking 10th among 104 core journals in the field of orthopedics included in the RCA, with a total of 105707 citations (20/104) and a total of 3920 articles (27/104) (Figure 10). For more information on *Journal of Orthopaedic & Sports Physical Therapy*, please visit: <https://www.referencecitationanalysis.com/SearchJournal>.

2022 JAll and rankings of The Journal of The American Academy of Orthopaedic Surgeons

In the RCA database, the 2022 JAll for *The Journal of The American Academy of Orthopaedic Surgeons* is 25.946, ranking 11th among 104 core journals in the field of orthopedics included in the RCA, with a total of 86581 citations (24/104) and a total of 3337 articles (33/104) (Figure 11). For more information on *The Journal of The American Academy of Orthopaedic Surgeons*, please visit: <https://www.referencecitationanalysis.com/SearchJournal>.

2022 JAll and rankings of The Gait & Posture

In the RCA database, the 2022 JAll for *Gait & Posture* is 25.815, ranking 12th among 104 core journals in the field of orthopedics included in the RCA, with a total of 165136 citations (14/104) and a total of 6397 articles (19/104) (Figure 12). For more information on *Gait & Posture*, please visit: <https://www.referencecitationanalysis.com/SearchJournal>.

2022 JAll and rankings of The Journal of Hand Surgery

In the RCA database, the 2022 JAll for *The Journal of Hand Surgery* is 25.713, ranking 13th among 104 core journals in the field of orthopedics included in the RCA, with a total of 270686 citations (6/104) and a total of 10527 articles (8/104) (Figure 13). For more information on *The Journal of Hand Surgery*, please visit: <https://www.referencecitationanalysis.com/SearchJournal>.

2022 JAll and rankings of Clinical Biomechanics

In the RCA database, the 2022 JAll for *Clinical Biomechanics* is 25.387, ranking 14th among 104 core journals in the field of orthopedics included in the RCA, with a total of 124397 citations (18/104) and a total of 4900 articles (26/104) (Figure 14). For more information on *Clinical Biomechanics*, please visit: <https://www.referencecitationanalysis.com/SearchJournal>.

2022 JAll and rankings of Foot & Ankle International

In the RCA database, the 2022 JAll for *Foot & Ankle International* is 25.123, ranking 15th among 104 core journals in the field of orthopedics included in the RCA, with a total of 142573 citations (16/104) and a total of 5675 articles (16/104) (Figure 15). For more information on *Foot & Ankle International*, please visit: <https://www.referencecitationanalysis.com/SearchJournal>.

2022 JAll and rankings of Clinical Orthopaedics and Related Research

In the RCA database, the 2022 JAll for *Clinical Orthopaedics and Related Research* is 23.901, ranking 16th among 104 core journals in the field of orthopedics included in the RCA, with a total of 612124 citations (3/104) and a total of 25611 articles (1/104) (Figure 16). For more information on *Clinical Orthopaedics and Related Research*, please visit: <https://www.referencecitationanalysis.com/SearchJournal>.



Figure 10 2022 *Journal Article Influence Index* and rankings of *Journal of Orthopaedic & Sports Physical Therapy*. The image of the journal cover is originally from the home page of the journal: <http://www.jospt.org/>.

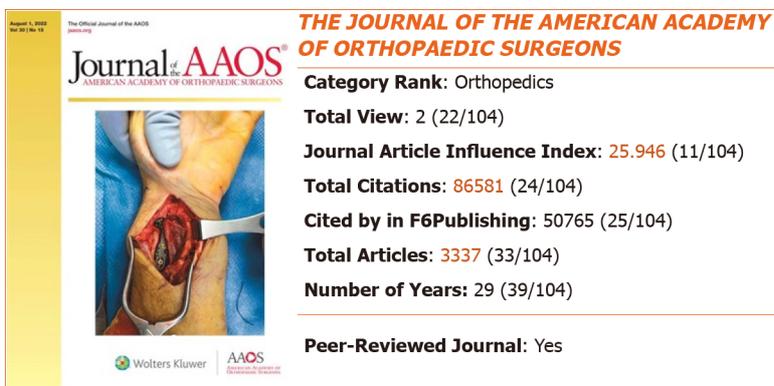


Figure 11 2022 *Journal Article Influence Index* and rankings of *The Journal of The American Academy of Orthopaedic Surgeons*. The image of the journal cover is originally from the home page of the journal: <https://journals.lww.com/jaaos>.

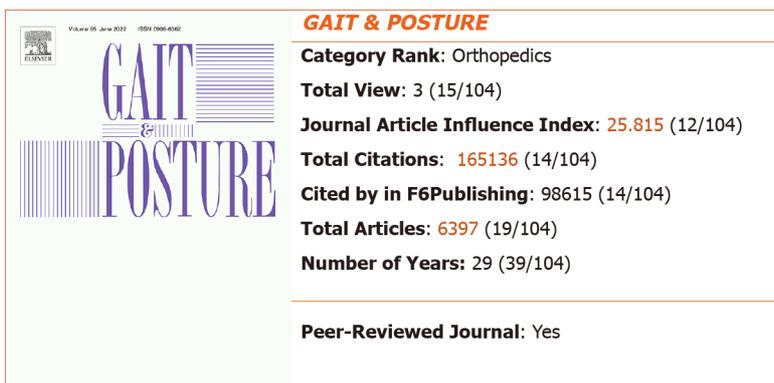


Figure 12 2022 *Journal Article Influence Index* and rankings of *Gait & Posture*. The image of the journal cover is originally from the home page of the journal: <https://www.sciencedirect.com/journal/gait-and-posture>.

2022 *JAI* and rankings of *Acta Orthopaedica*

In the RCA database, the 2022 *JAI* for *Acta Orthopaedica* is 23.437, ranking 17th among 104 core journals in the field of orthopedics included in the RCA, with a total of 35953 citations (34/104) and a total of 1534 articles (56/104) (Figure 17). For more information on *Acta Orthopaedica*, please visit: <https://www.referencecitationanalysis.com/SearchJournal>.



Figure 13 2022 Journal Article Influence Index and rankings of The Journal of Hand Surgery. The image of the journal cover is originally from the home page of the journal: <http://www.sciencedirect.com/science/journal/03635023>.



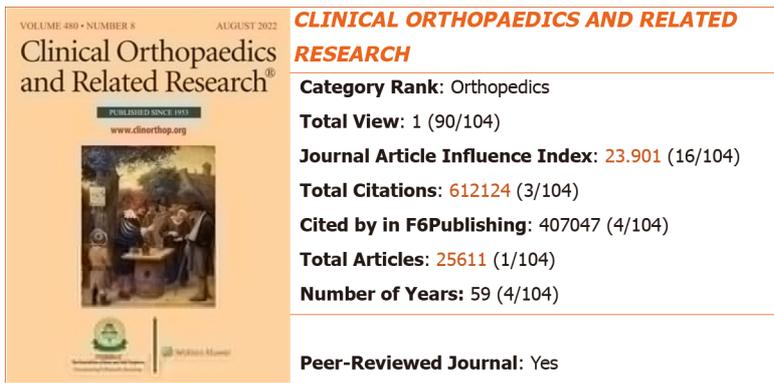
Figure 14 2022 Journal Article Influence Index and rankings of Clinical Biomechanics. The image of the journal cover is originally from the home page of the journal: <https://www.sciencedirect.com/journal/clinical-biomechanics>.



Figure 15 2022 Journal Article Influence Index and rankings of Foot & Ankle International. The image of the journal cover is originally from the home page of the journal: <https://journals.sagepub.com/home/fai>.

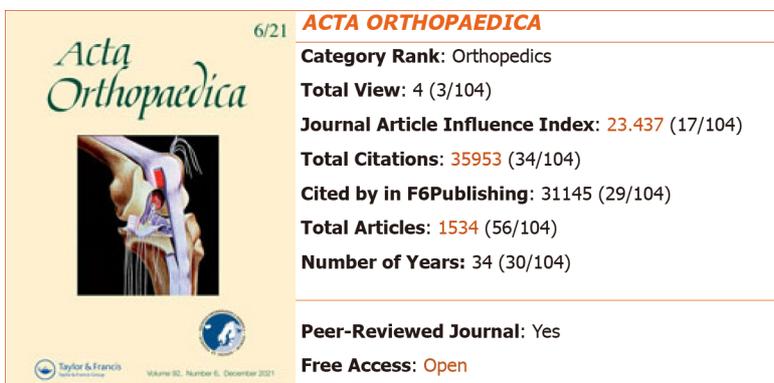
2022 JAI and rankings of Knee Surgery Sports Traumatology Arthroscopy

In the RCA database, the 2022 JAI for *Knee Surgery Sports Traumatology Arthroscopy* is 22.713, ranking 18th among 104 core journals in the field of orthopedics included in the RCA, with a total of 172777 citations (13/104) and a total of 7607 articles (13/104) (Figure 18). For more information on *Knee Surgery Sports Traumatology Arthroscopy*, please visit: <https://www.referencecitationanalysis.com/Search-Journal>.



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Figure 16 2022 Journal Article Influence Index and rankings of *Clinical Orthopaedics and Related Research*. The image of the journal cover is originally from the home page of the journal: <https://journals.lww.com/clinorthop/pages/default.aspx>.



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Figure 17 2022 Journal Article Influence Index and rankings of *Acta Orthopaedica*. The image of the journal cover is originally from the home page of the journal: <https://www.tandfonline.com/journals/iort20>.

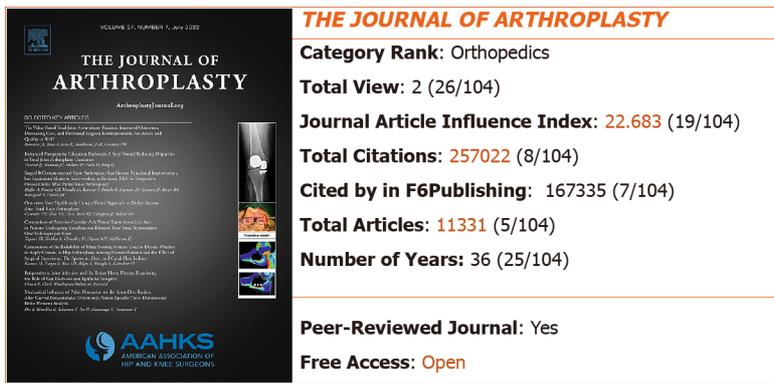


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Figure 18 2022 Journal Article Influence Index and rankings of *Knee Surgery Sports Traumatology Arthroscopy*. The image of the journal cover is originally from the home page of the journal: <https://Link.springer.com/journal/167>.

2022 JAI and rankings of *The Journal of Arthroplasty*

In the RCA database, the 2022 JAI for *The Journal of Arthroplasty* is 22.683, ranking 19th among 104 core journals in the field of orthopedics included in the RCA, with a total of 257022 citations (8/104) and a total of 11322 articles (5/104) (Figure 19). For more information on *The Journal of Arthroplasty*, please visit: <https://www.referencecitationanalysis.com/SearchJournal>.



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Figure 19 2022 Journal Article Influence Index and rankings of *The Journal of Arthroplasty*. The image of the journal cover is originally from the home page of the journal: <http://www.sciencedirect.com/science/journal/08835403>.



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Figure 20 2022 Journal Article Influence Index and rankings of *Journal of Orthopaedic Trauma*. The image of the journal cover is originally from the home page of the journal: <https://journals.lww.com/jorthotrauma/pages/issuelist.aspx>.



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Figure 21 2022 Journal Article Influence Index and rankings of *Clinical Journal of Sport Medicine*. The image of the journal cover is originally from the home page of the journal: <https://journals.lww.com/cjsportsmed/pages/issuelist.aspx>.

2022 JAI and rankings of *Journal of Orthopaedic Trauma*

In the RCA database, the 2022 JAI for *Journal of Orthopaedic Trauma* is 22.363, ranking 20th among 104 core journals in the field of orthopedics included in the RCA, with a total of 137263 citations (17/104) and a total of 6138 articles (22/104) (Figure 20). For more information on *Journal of Orthopaedic Trauma*, please visit: <https://www.referencecitationanalysis.com/SearchJournal>.

2022 JAI and rankings of Clinical Journal of Sport Medicine

In the RCA database, the 2022 JAI for *Clinical Journal of Sport Medicine* is 21.471, ranking 21st among 104 core journals in the field of orthopedics included in the RCA, with a total of 55095 citations (27/104) and a total of 2566 articles (41/104) (Figure 21). For more information on *Clinical Journal of Sport Medicine*, please visit: <https://www.referencecitationanalysis.com/SearchJournal>.

RCA'S MISSION

The mission of RCA is to provide a high-quality academic article evaluation service platform for various categories. At present, there are many evaluation methods for academic articles, but their calculation methods are complicated. The RCA is a new method of evaluating the quality of academic articles, which allows academic evaluation of journals, scholars, institutions, drugs, medical devices, and publishers based on the JAI of each article in the citation analysis database, thus greatly enriching the academic evaluation systems across different categories and guiding the healthy development of the academic community[2].

OPENNESS AND TRANSPARENCY OF RCA EVALUATION

RCA is unique in its objective, impartial, fair, and transparent release of citation analysis data of important academic journals to authors and readers, including evaluation data, evaluation indices, evaluation methods, and evaluation results, in order to ensure the reliability of academic evaluation[2].

CALCULATION METHOD FOR 2022 JAI

The 2022 JAI, calculated as Total citations/Total articles, is not a 2-year or 5-year average of citations, but is an average of citations for all articles since the journal was assigned its DOI number. Article types are not only limited to original articles and review articles, but for all types of articles. In this way, it is a more objective, fair, and transparent calculation of the academic influence index of an academic journal. Furthermore, the journal list itself is evaluated dynamically, with its bibliographic metrics being updated daily, including total number of articles, total citations, and JAI[2].

EVALUATION PROCESS OF RCA JOURNALS

The journals included in the RCA core journal list need to undergo three rounds of strict evaluation. The evaluation process is as follows[2]:

First-round evaluation: The basic information on the journal is verified, including Journal Name, Abbreviated Title, Print ISSN, Online ISSN, Language, Category, Peer-Reviewed Journal, Ownership, Publisher, Journal Website, Editorial Board Members, Submit a Manuscript, and Indexed by.

Second-round evaluation: The activity of the journal is verified, including Total Articles, Total Citations, Cited by in F6Publishing, and the JAI.

Third-round evaluation: Based on the reliability of journal information, the activity of publication data, whether the journal is a peer-reviewed journal or not, and JAI, the editorial team evaluates every journal, makes the decision to accept or reject the journal, and creates a list of core journals by category. The function of the list of core academic journals is to classify journals according to categories and rank them according to various bibliometrics, including Total Views, JAI, Total Citations, Cited by in F6Publishing, Total Articles, and Number of Years.

INCLUSION PRINCIPLES OF RCA JOURNALS

The RCA editorial team of Baishideng conducted three rounds of rigorous evaluation of core journals in orthopedics. The resultant RCA core journal list for the field of orthopedics includes a total of 104 journals, among which the highest 2022 JAI is 55.015 and the lowest JAI is 3.076, the highest total number of citations is 1110044 and the lowest is 678, and the highest total number of articles is 612124 and the lowest is 164. The RCA core journal list does not include any journals with a JAI lower than 3.0. We implement dynamic evaluation inclusively for the RCA core journal list. Evaluation is initiated once

an RCA-nonincluded journal receives a JAI over 3.0. Similarly, if a journal included in the RCA core journal list receives a JAI lower than 3.0, it will be excluded. The RCA core journal list is designed by publishers, scientific editors, and engineers for use by readers, authors, and editorial offices, and is free of charge to users[2].

Upon completion of the three rounds of rigorous evaluation of core journals in orthopedics by the RCA editorial team, all data in each journal are organized for public consumption according to category rank, including the 2022 JAI, total citations, cited by in F6Publishing, total articles, and the 2021 Journal Impact Factor™. All information in each journal, including Journal Name, Print ISSN, Online ISSN, Language, Free Access, Peer-Reviewed Journal, Ownership, Publisher, Journal Website, Editorial Board Members, Submit a Manuscript, and Indexed by, is made available in RCA. Moreover, the citations of each journal can be then ranked in RCA by the *Impact Index Per Article*, Cited by in Crossref, and Cited by in F6Publishing parameters. Results analysis available for each journal includes Year Published Analysis, Article Type Analysis, Journal Title Analysis, and Category Analysis. The references of each journal are also able to be refined by Year Published and Article Type. Each reference's citation information is displayed, including PMID, DOI, Cited by in Crossref, *Impact Index Per Article*, RCA, and Track Full Text[2].

CONCLUSION

The ultimate purpose of RCA is to provide an open, objective, fair, and reliable academic evaluation service platform for readers, authors, and journal editors, in order to address the needs of authors to select reliable journals for submission, readers to select high-quality literature for reading, and editors to track their own journal citation performance.

FOOTNOTES

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