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WORD COUNT	2895	TIME SUBMITTED	07-SEP-2022 03:40PM
		PAPER ID	90262673

Name of Journal: *World Journal of Orthopedics*
Manuscript NO: 79383
Manuscript Type: EDITORIAL

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

Abstract

After three rounds of rigorous evaluation on 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 *JAII*) of 104 core journals and the list of high-quality academic journals in orthopedics, for the first time at August 9, 2022. The list of 104 core journals can be found at: https://www.referencecitationanalysis.com/SearchJournal. Among them, the highest 2022 *JAII* 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 *JAII*, 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

Wang JL, Ma YJ, Ma L, Ma N, Guo DM, Ma LS. Baishideng's *Reference Citation Analysis* database announces the first *Journal Article Influence Index* of 104 core journals and list of high-quality academic journals in orthopedics. *World J Orthop* 2022; In press

Core Tip: The *Reference Citation Analysis* (*RCA*) database of Baishideng Publishing Group officially released the 2022 *Journal Article Influence Index* (2022 *JAII*) of 104 core journals and the list of high-quality academic journals in orthopedics, for the first time. This article highlights the top 21 among these and describes the calculation method of 2022 *JAII*, 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.

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 *JAII*) of 104 core journals in the field of orthopedics at August 9, 2022. The detailed information of 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 *JAII*. *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 *JAII*. In this study, we introduce the top 21 journals ranked by 2022 *JAII* from among the total 104 core journals in the field of orthopedics included in *RCA*, the calculation method of 2022 *JAII*, and the evaluation process and the inclusion principles of *RCA* journals.

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

RCA classifies academic journals with a *JAII* 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 *RCA*, among which 21 are identified to be high-quality academic journals, accounting for 20.2%. The list of the 21 high-quality academic journals, the top 21 journals ranked by *JAII* among the core journals in the field of orthopedics in *RCA*, is described below.

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

In the *RCA* database, the 2022 *JAII* 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 total citations of 1110044 (1/104) and total articles of 20177 (2/104) (Figure 1). For more information about *The Journal of Bone and Joint Surgery-American Volume*, please visit: https://www.referencecitationanalysis.com/SearchJournal.

2022 JAII and rankings of The American Journal of Sports Medicine

In the *RCA* database, the 2022 *JAII* 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 total citations of 589467 (4/104) and total articles of 11127 (6/104) (Figure 2). For more information about *The American Journal of Sports Medicine*, please visit: https://www.referencecitationanalysis.com/SearchJournal.

2022 JAII and rankings of Spine

In the *RCA* database, the 2022 *JAII* for *Spine* is 44.570, ranking 3rd among 104 core journals in the field of orthopedics included in the *RCA*, with total citations of 864839 (2/104) and total articles of 19404 (3/104) (Figure 3). For more information about *Spine*, please visit: https://www.referencecitationanalysis.com/SearchJournal.

2022 JAII and rankings of European Cells & Materials

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

2022 JAII and rankings of Journal of Orthopaedic Research

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

2022 JAII and rankings of Physical Therapy & Rehabilitation Journal

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

2022 JAII and rankings of Arthroscopy

In the *RCA* database, the 2022 *JAII* for *Arthroscopy* is 29.982, ranking 7th among 104 core journals in the field of orthopedics included in the *RCA*, with total citations of 285163 (5/104) and total articles of 9511 (9/104) (Figure 7). For more information about *Arthroscopy*, please visit: https://www.referencecitationanalysis.com/SearchJournal.

2022 JAII and rankings of Osteoarthritis and Cartilage

In the *RCA* database, the 2022 *JAII* for *Osteoarthritis and Cartilage* is 28.691, ranking 8th among 104 core journals in the field of orthopedics included in the *RCA*, with total

citations of 194522 (12/104) and total articles of 6780 (18/104) (Figure 8). For more information about *Osteoarthritis and Cartilage*, please visit: https://www.referencecitationanalysis.com/SearchJournal.

2022 JAII and rankings of Journal of Shoulder and Elbow Surgery

In the *RCA* database, the 2022 *JAII* 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 total citations of 195354 (11/104) and total articles of 7134 (16/104) (Figure 9). For more information about *Journal of Shoulder and Elbow Surgery*, please visit: https://www.referencecitationanalysis.com/SearchJournal.

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

In the *RCA* database, the 2022 *JAII* 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 total citations of 105707 (20/104) and total articles of 3920 (27/104) (Figure 10). For more information about *Journal of Orthopaedic & Sports Physical Therapy*, please visit: https://www.referencecitationanalysis.com/SearchJournal.

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

In the *RCA* database, the 2022 *JAII* 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 total citations of 86581 (24/104) and total articles of 3337 (33/104) (Figure 11). For more information about *The Journal of The American Academy of Orthopaedic Surgeons*, please visit: https://www.referencecitationanalysis.com/SearchJournal.

2022 JAII and rankings of The Gait & Posture

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

2022 JAII and rankings of The Journal of Hand Surgery

In the *RCA* database, the 2022 *JAII* 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 total citations of 270686 (6/104) and total articles of 10527 (8/104) (Figure 13). For more information about *The Journal of Hand Surgery*, please visit: https://www.referencecitationanalysis.com/SearchJournal.

2022 JAII and rankings of Clinical Biomechanics

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

2022 JAII and rankings of Foot & Ankle International

In the *RCA* database, the 2022 *JAII* for *Foot & Ankle International* is 25.123, ranking 15th among 104 core journals in the field of orthopedics included in the *RCA*, with total citations of 142573 (16/1041) and total articles of 5675 (16/104) (Figure 15). For more information about *Foot & Ankle International*, please visit: https://www.referencecitationanalysis.com/SearchJournal.

2022 JAII and rankings of Clinical Orthopaedics and Related Research

In the *RCA* database, the 2022 *JAII* 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 total citations of 612124 (3/104) and total articles of 25611 (1/104) (Figure 16). For more information about *Clinical Orthopaedics and Related Research*, please visit: https://www.referencecitationanalysis.com/SearchJournal.

2022 JAII and rankings of Acta Orthopaedica

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

2022 JAII and rankings of Knee Surgery Sports Traumatology Arthroscopy

In the *RCA* database, the 2022 *JAII* 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 total citations of 172777 (13/104) and total articles of 7607 (13/104) (Figure 18). For more information about *Knee Surgery Sports Traumatology Arthroscopy*, please visit: https://www.referencecitationanalysis.com/SearchJournal.

2022 JAII and rankings of The Journal of Arthroplasty

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

2022 JAII and rankings of Journal of Orthopaedic Trauma

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

2022 JAII and rankings of Clinical Journal of Sport Medicine

In the *RCA* database, the 2022 *JAII* 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 total citations of 55095 (27/104) and total articles of 2566 (41/104) (Figure 21). For more information about *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. *RCA* as a new generation method of evaluating the quality of academic articles, allows for making an academic evaluation of journals, scholars, institutions, drugs, medical devices, and publishers based on the *JAII* 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 indexes, evaluation methods, and evaluation results, so as to ensure the reliability of academic evaluation[2].

CALCULATION METHOD OF 2022 *JAII*

The 2022 *JAII*, calculated as Total citations/Total articles, is not a 2-year nor 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 *JAII*[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 of 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 *JAII*.

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 *JAII*, 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, *JAII*, 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 on 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 *JAII* is 55.015 and the lowest *JAII* is 3.076, the highest number of total citations is 1110044 and the lowest is 678, and the highest number of total articles is 612124 and the lowest is 164. The *RCA* core journal list does not include any journals with a *JAII* 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 *JAII* over 3.0. Similarly, if a journal included in the *RCA* core journal list receives a *JAII* lower than 3.0, it will be dropped out at that point. 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 on core journals in orthopedics by the *RCA* editorial team, all data of each journal are organized for public consumption according to category rank, including 2022 *JAII*, total citations, cited by in F6Publishing, total articles, and 2021 Journal Impact Factor™. All journal information of 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, so as 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.

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