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Baishideng's *Reference Citation Analysis* **database announces the first** *Article Influence Index* **of multidisciplinary scholars**

Wang JL *et al*. *RCA* announces 2022 *AII* of 632 scholars

Abstract

After three rounds of rigorous evaluation on registered scholars conducted by the *Reference Citation Analysis* (*RCA*) editorial team of Baishideng Publishing Group (Baishideng), the *RCA* database of Baishideng officially released the 2022 *Article Influence Index* (2022 *AII*) of 632 scholars from 74 countries/territories in 98 research categories, for the first time. The list of 632 scholars can be found at: https://www.referencecitationanalysis.com/searchscholar. Among them, the highest 2022 *AII* is 348.211, the highest number of total citations is 42830, and the highest number of total articles is 901. The category with the largest number of *RCA* scholars is Gastroenterology & Hepatology, with a total of 100 (15.8%), and the second is Surgery, with a total of 46 (7.3%). This article summaries the *RCA* scholars and describes the mission of *RCA*, the openness and transparency of *RCA* evaluation, the calculation method for the 2022 *AII*, and the evaluation process of *RCA* scholars. The *RCA* scholar list will effectively serve as a useful Find-a-Scholar tool. Any interested scholar is welcome to register and join this *RCA* scholar list.

Core Tip: The *Reference Citation Analysis* (*RCA*) database of Baishideng Publishing Group officially released the 2022 *Article Influence Index* (2022 *AII*) of 632 scholars from 74 countries/territories in 98 research categories, for the first time. This article summaries the *RCA* scholars and describes the mission of *RCA*, the openness and transparency of *RCA* evaluation, the calculation method for the 2022 *AII*, and the evaluation process of *RCA* scholars. The *RCA* scholar list will effectively serve as a

useful Find-a-Scholar tool. Any interested scholar is welcome to register and join this *RCA* scholar list.

INTRODUCTION

We are very pleased to announce that the *Reference Citation Analysis* (*RCA*) database[1] of Baishideng Publishing Group (Baishideng) has, for the first time, officially released the 2022 *Article Influence Index* (2022 *AII*) of 632 scholars from 74 countries/territories in 98 research categories, for the first time. The total 632 scholars can be found at: https://www.referencecitationanalysis.com/searchscholar.

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 15, 2022). *RCA* updates its list of journals daily, according to relevant data including total number of articles, total citations, and 2022 *Journal Article Influence Index* (2022 *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 2022 *JAII*[2]. Herein, we summary the *RCA* scholars, describe the mission of *RCA* and the openness and transparency of *RCA* evaluation, and introduce the calculation method for the 2022 *AII* and the evaluation process of *RCA* scholars.

SUMMARY OF *RCA* SCHOLARS

We sent invitation letters to scholars of various research categories around the world through F6Publishing highly influential scientists database. As of August 15, 2022, a total of 1228 scholars have registered in *RCA*. After three rounds of rigorous evaluation by the *RCA* editorial team, 632 (51.5%) scholars were approved to be included in the *RCA* scholar list. These 632 *RCA* scholars come from 74 countries/territories, and are

distributed in 98 research categories, including 90 (14.2%) from China, 63 (10.0%) from Italy, 59 (9.3%) from India, 43 (6.8%) from Egypt, 32 (5.1%) from United States, 30 (4.7%) from Turkey, and 25 (4.0%) from Spain (Figure 1). The category with the largest number of *RCA* scholars is Gastroenterology & Hepatology, with a total of 100 (15.8%) scholars, and the second is Surgery, with a total of 46 (7.3%) scholars, followed by Biochemistry & Molecular Biology with 31 (4.9%) scholars and Oncology 31 (4.9%) with scholars (Figure 2).

Top 3 RCA scholars ranked by total articles, total citations, and 2022 AII

Among the 632 *RCA* scholars, the scholar with the largest number of total articles is Giuseppe Biondi-Zoccai, Associate Professor (*RCA* ID: 00000973) from Italy, and he has published a total of 901 articles (Table 1). The scholar with the largest number of total citations is Kamarul Imran Musa, Associate Professor (*RCA* ID: 00000942) from Malaysia, and his number of total citations is 42830 (Table 2), and meanwhile, he has the highest 2022 *AII*, which is 348.211 (Table 3).

Top 3 RCA scholars in the field of Gastroenterology & Hepatology ranked by total articles, total citations, and 2022 AII

Among the 100 *RCA* scholars in the field of Gastroenterology & Hepatology, the scholar with the largest number of total articles is Kamran B Lankarani, Professor (*RCA* ID: 00001172) from Iran, and he has published a total of 392 articles (Table 4). The scholar with the largest number of total citations is Andrzej S Tarnawski, Professor (*RCA* ID: 00000002) from United States, and his number of total citations is 8764 (Table 5). The scholar with the highest of 2022 *AII* is Paul Henderson, Senior Lecturer (*RCA* ID: 00000799) from United Kingdom, and his 2022 *AII* is 89.661 (Table 6).

Top 3 RCA scholars in the field of Surgery ranked by total articles, total citations, and 2022 AII

Among the 46 *RCA* scholars in the field of Surgery, the scholar with the largest number of total articles is Bing Hu, Professor (*RCA* ID: 00000233) from China, and he has published a total of 206 articles (Table 7). The scholar with the largest number of total citations is William C Dooley, Professor (*RCA* ID: 00000689) from United States, and his number of total citations is 3740 (Table 8), and meanwhile, he has the highest 2022 *AII*, which is 45.060 (Table 9).

Top 3 RCA scholars in the field of Biochemistry & Molecular Biology ranked by total articles, total citations, and 2022 AII

Among the 31 *RCA* scholars in the field of Biochemistry & Molecular Biology, the scholar with the largest number of total articles is Giuseppe Maurizio Campo, Professor (*RCA* ID: 00000278) from Italy, and he has published a total of 183 articles (Table 10). The scholar with the largest number of total citations is Yoshiro Saito, Professor (*RCA* ID: 00001051) from Japan, and his number of total citations is 5886 (Table 11). The scholar with the highest of 2022 *AII* is Manoj Kumar Kashyap, Associate Professor (*RCA* ID: 00000155) from India, and his 2022 *AII* is 75.521 (Table 12).

Top 3 RCA scholars in the field of Oncology ranked by total articles, total citations, and 2022 AII

Among the 31 *RCA* scholars in the field of Oncology, the scholar with the largest number of total articles is Jing He, Research Associate (*RCA* ID: 00000057) from China, and he has published a total of 206 articles (Table 13). The scholar with the largest number of total citations is Reza Alizadeh-Navaei, Adjunct Associate Professor (*RCA* ID: 00000754) from Iran, and his number of total citations is 23735 (Table 14), and meanwhile, he has the highest 2022 *AII*, which is 168.333 (Table 15).

<u>*RCA'S MISSION*</u>

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 disciplines 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 *AII* AND DATA UPDATE

The 2022 *AII*, 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 of a scholar. 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 a scholar. The *RCA* updates the article data of scholars weekly, including total number of articles, total citations, and 2022 *AII*[2].

EVALUATION PROCESS OF *RCA* SCHOLARS

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

First-round evaluation: The general information of the scholar is verified, including Name, Professional Designations(s), Job Title/Position, Research Domain, Research Keywords, Biography, Institution URL, Institution, Photo, Social Media URLs, and Academic Activity. Usually, *RCA* scholars must have MD or PhD degree, and the job

title/position must be at least Associate Professor, Associate Chief Physician or Associate Researcher, or above.

Second-round evaluation: The academic quality of the scholar's published articles is verified according to the list of articles imported by the *RCA* registration user, including whether the imported articles are published by the scholars themselves and whether the author information of the articles is correct. After the evaluation, scholars will be notified to verify the correctness of the information in the article.

Third-round evaluation: Based on the reliability of scholar's general information, the number of scholar's published articles, the distribution of publications, the number of citations of articles, and *AII*, the *RCA* editorial team evaluates every scholar, makes the decision to accept or reject the scholar, and create a list of core scholars by research categories.

FUNCTION OF THE *RCA* SCHOLAR LIST

The function of the *RCA* scholar list is to: (1) Classify scholars according to categories and rank them according to various bibliometrics, including total view, *AII*, total citations, cited by in F6publishing, total articles, and number of years; and (2) Provide a website platform for each *RCA* scholar to display scholar's name, *RCA* ID, personal *RCA* site address, research domain, research keywords, biography, total view, total journal(s), total articles, total citations, cited by in F6publishing, *AII*, institution URL, institution, scholar's citation analysis list, ranked by (impact index per article, cited by in Crossref, and cited by in F6publishing), results analysis (year published analysis, article type analysis, journal title analysis, category analysis, and citation analysis), year published, article type, journal title, and category[2].

CONCLUSION

Finally, *RCA* is a new generation of impartial, fair, open, and transparent method for the third-party quantitative and qualitative evaluation of the quality of academic articles of scholars based on the impact index of each article in the *RCA* database. The ultimate purpose of *RCA* is to provide scholars with permanent *RCA* ID and personal network sharing website. The scholars' personal *RCA* site provides scholars with a platform for academic exchange that integrates social media and network sharing, thus helping to expand the global academic influence of scholars' articles and leading the healthy development of academic exchange ideas.

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