

”

How to Use Web of Science ?



Production Team

Group 5, Postgraduate English Class 27, Cohort 2025,
Southeast University

Members and Role assignment

Team Leader: Qian Wenhao.

Material Collection: Qian Wenhao, Li Yanlei, Dong Shufa,
Wu Junjie.

Media Production: Lin Minlei , Sun Yawen.



A brief user guide
to **Web of Science**,
a multidisciplinary
citation database.

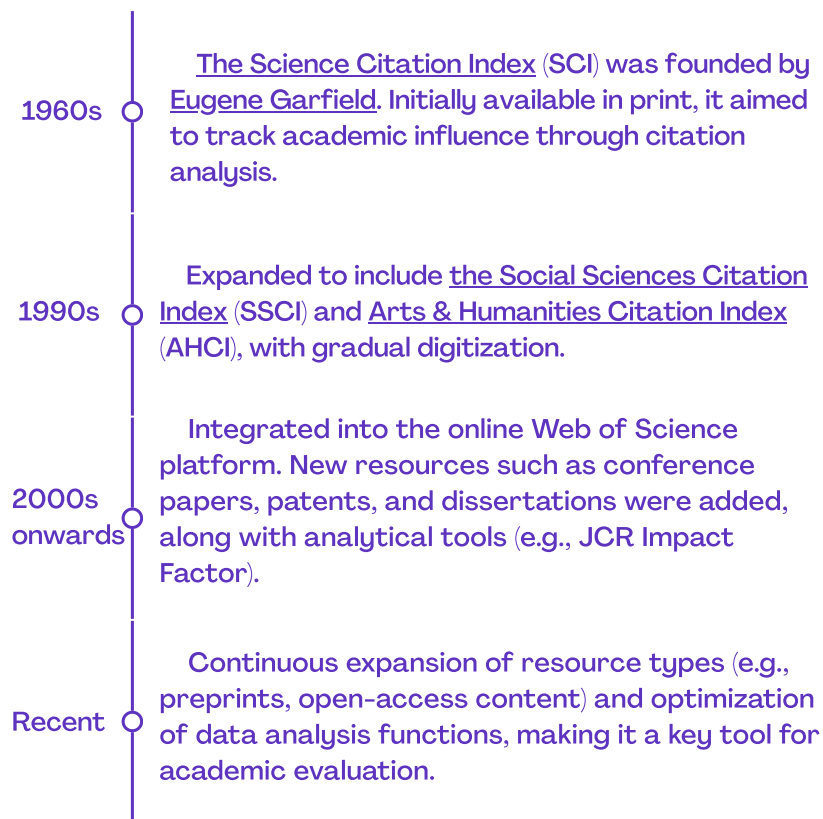


1. Introduction to Web of Science

1.1 Overview

Web of Science is a globally authoritative academic resource platform operated by **Clarivate**. It centers on citation indexing, supporting academic literature retrieval, analysis and evaluation. It covers high-quality journals and academic resources in fields such as natural sciences, social sciences, arts, and humanities.

1.2 History



1. Introduction to Web of Science

1.3 Resource Types

Core Collections:

- **Science Citation Index-Expanded (SCI-E)**
- **Social Sciences Citation Index (SSCI)**
- **Arts and Humanities Citation Index (A&HCI)**
- **Emerging Sources Citation Index (ESCI)**
- **Conference Proceedings Citation Index**
- **Book Citation Index**
- ...

1.4 Disciplinary Coverage



Natural Sciences

178 disciplines (e.g., physics, chemistry, medicine).



Social Sciences

Including economics, psychology, education, and more.



Arts and Humanities

Covering literature, history, philosophy, and other fields.



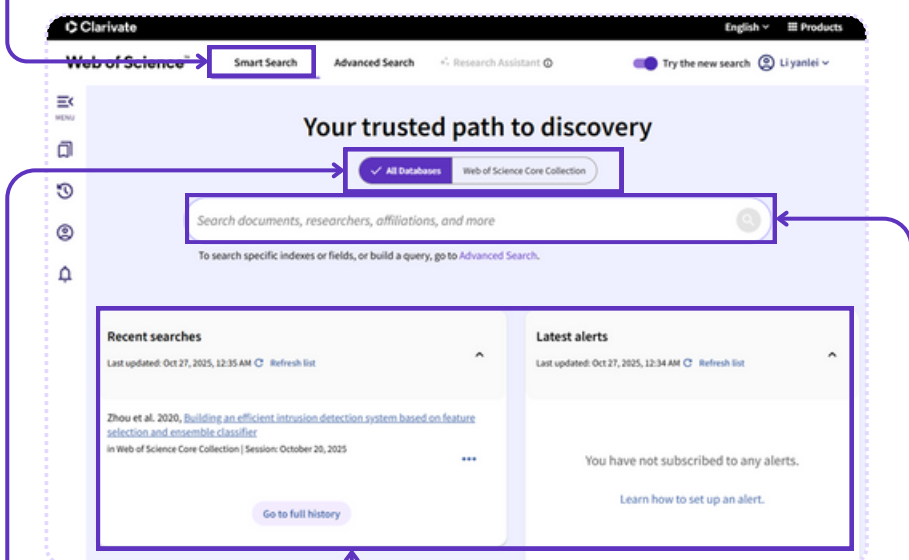
Interdisciplinary Studies

Supporting cross-disciplinary research through multi-database integration.

3. Search Functionality

3.1 Smart Search

For a quick search or if you are a first-time user, simply select the [Smart Search](#) tab.



1. Select search scope: [All Databases](#) or [Core Collection](#)
2. Enter keywords for documents, researchers or other items. Press [Enter](#) or click the [search button](#).

3.2 Quick Access

The home page also displays your [recent search history](#) and your [latest subscribed alerts](#).

3.3 Advanced Search

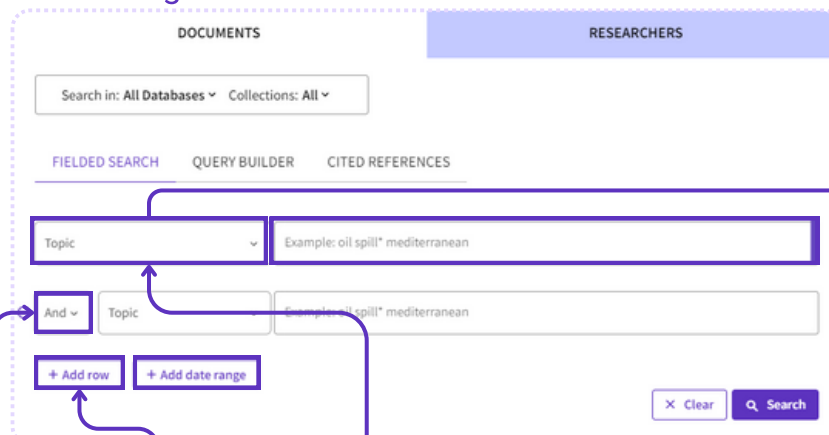
Use [Advanced Search](#) for complex queries. Web of Science provides 3 ways to search for [documents](#) with complex details, including [Field Search](#), [Query Builder](#) and [Cited References](#).



3. Search Functionality

3.3.1 Field Search

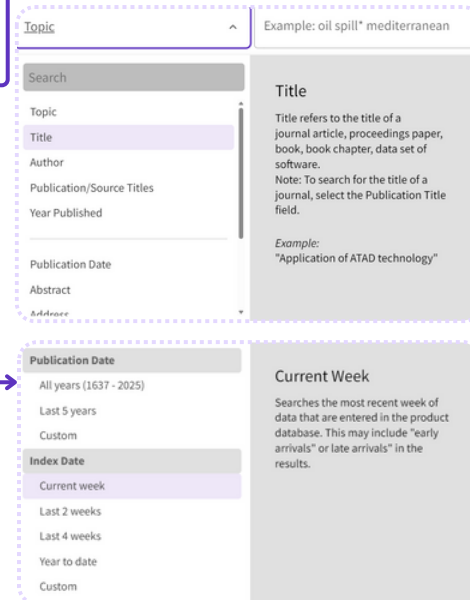
The [Field Search](#) feature allows you to search for records within specific fields such as [title](#), [topic](#), [author](#), or [institution](#). It helps refine your results by targeting precise information relevant to your research.



1. Click "[Add row](#)" to add a condition. Select a field (e.g., [topic](#), [author](#), [title](#)) and enter your keywords.

2. Click "[Add date range](#)" to add a condition for [publication or index date](#) (optional).

3. Combine multiple conditions using [AND](#) / [OR](#) / [NOT](#) boolean operators and click "[Search](#)" to start the query.



3. Search Functionality

3.3.2 Query Builder

Query Builder uses a special query language, enabling users to construct complex queries with multi-level boolean operations or precise mappings with wildcards.

1. Add search terms(field types, keywords and boolean operators), then click “Add to query”.

2. Reuse or edit your past queries from Session Queries if you want.

3. Preview your query expression here and edit it manually if you like. Then click “Search” to run your query.

Here is a brief explanation of the field tags in the query language. Follow the guides to build your search expressions.

3. Search Functionality

3.3.3 Cited References

You can search cited references to find all publications that have cited a specific work. This helps you explore its influence and analyze the citation network for deeper research connections.

Just like Field Search, you can add terms to the query and combine them with boolean operators. The fields represent the information of the cited work, including Cited Work, Cited Author, Cited DOI.

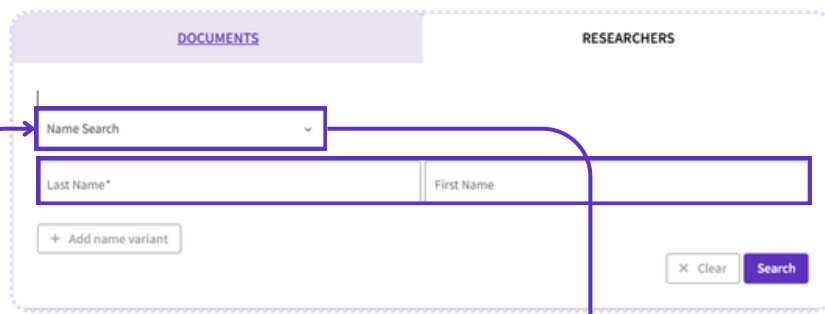
Searches for cited works such as titles of cited journals (abbreviated titles can retrieve more results), cited conferences and cited books.

Examples:
Market* Sci*
Solar pow*

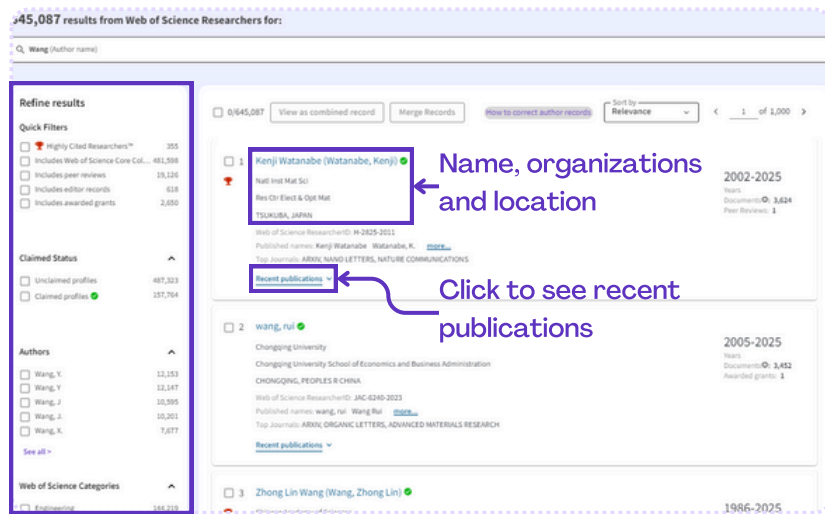
3. Search Functionality

3.3.4 Researcher Search

The Researcher Search feature allows you to find researchers by name, author ID, or affiliated organization. It provides detailed profiles showing publications, citation metrics, and collaboration information to help evaluate and connect with scholars.



Select a field type (name, author identifier or organization) for your query and enter the keywords. Then click “Search” for the following results.



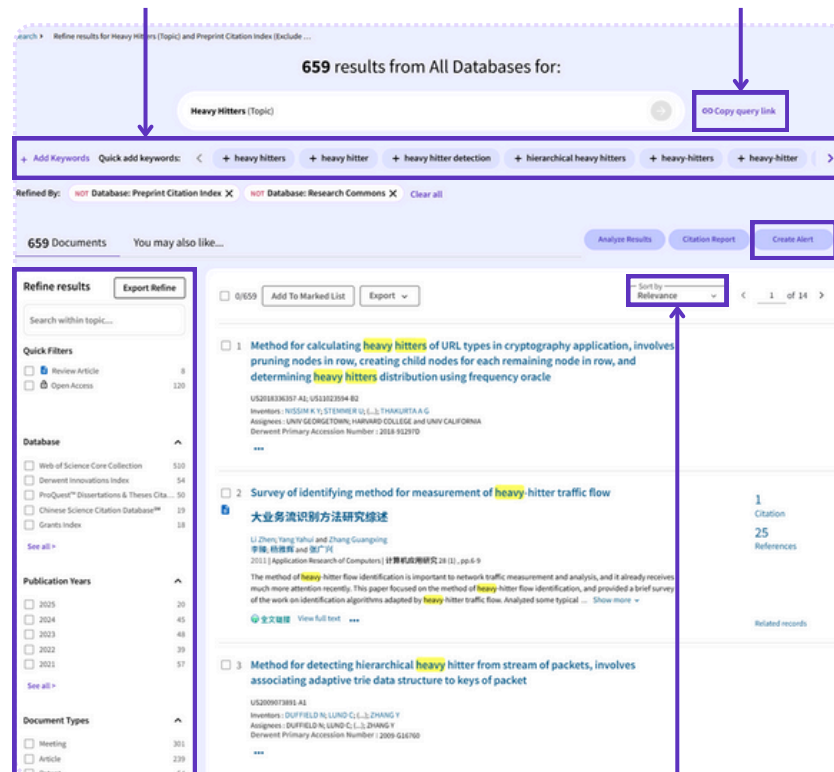
Filters by categories, authors, affiliations, etc.

3. Search Functionality

3.4 Document Search Results

Add more recommended keywords to the query for further refinement.

Copy the query link to share with others or save to your browser’s bookmarks.



Narrow down your results with filters by databases, publication years, document types, authors, etc.

Sort the results by relevance, citations, date, document title, author, etc.

Create an alert for the query so that Web of Science can notify you by email when new documents matching the query are published.

4. Downloading and Reading

4.1 Downloading an Article

Web of Science itself does not support full text download, so you can only download an article from the [official websites of the publisher](#). Different publishers have different downloading methods. For example, for this paper:

Multiagent Based Reinforcement Learning (MA-RL): An Automated Designer for Complex Analog Circuits

Bao, JR; Zhang, JX; (...); Lu, Y

Dec 2024 | IEEE TRANSACTIONS ON COMPUTER-AIDED DESIGN OF INTEGRATED CIRCUITS AND SYSTEMS 43 (12) , pp.4398-4411

Enriched Cited References

Despite the effort of analog circuit design automation, currently complex analog circuit design still requires extensive manual iterations, making it labor intensive and time-consuming. Recently, reinforcement learning (RL) algorithms have been demonstrated successfully for the analog circuit design optimization. However, a robust and highly efficient RL method to design analog circuits with complex design space has not been fully explored yet. In this work, inspired by multiagent planning theory as well as human expert design practice, we propose a multiagent-based RL (MA-RL) framework to tackle this issue. Particularly, we 1) partition the complex analog circuits into several subblocks based on topology information and effectively reduce the complexity of design search space; 2) leverage MA-RL for the circuit

全文链接 Full Text at Publisher ...

After searching and finding the literature you want to download, click “Full Text at Publisher” for the full text from the publisher.

After being redirected to the publisher’s official website, click the “PDF” button to complete the download.

Journals & Magazines > IEEE Transactions on Computer... > Volume: 43 Issue: 12

Multiagent Based Reinforcement Learning (MA-RL): An Automated Designer for Complex Analog Circuits

Publisher: IEEE Cite This PDF

Jiarui Bao; Jinxin Zhang; Zhangcheng Huang; Zhaori Bi; Xingwei Feng; Xuan Zeng All Authors

8 Cites in Papers 1440 Full Text Views

Abstract

Document Sections

- I. Introduction
- II. Related Work
- III. Methodology
- IV. Experiments

4. Downloading and Reading

4.2 Reading an Article

At the same time, most publishers’ official websites support online reading.

Multiagent Based Reinforcement Learning (MA-RL): An Automated Designer for Complex Analog Circuits

Bao, JR; Zhang, JX; (...); Lu, Y

Dec 2024 | IEEE TRANSACTIONS ON COMPUTER-AIDED DESIGN OF INTEGRATED CIRCUITS AND SYSTEMS 43 (12) , pp.4398-4411

Enriched Cited References

Despite the effort of analog circuit design automation, currently complex analog circuit design still requires extensive manual iterations, making it labor intensive and time-consuming. Recently, reinforcement learning (RL) algorithms have been demonstrated successfully for the analog circuit design optimization. However, a robust and highly efficient RL method to design analog circuits with complex design space has not been fully explored yet. In this work, inspired by multiagent planning theory as well as human expert design practice, we propose a multiagent-based RL (MA-RL) framework to tackle this issue. Particularly, we 1) partition the complex analog circuits into several subblocks based on topology information and effectively reduce the complexity of design search space; 2) leverage MA-RL for the circuit

全文链接 Full Text at Publisher ...

Click “Full Text From Publisher” to go to the publisher’s website, and scroll down to read the full content of the article.

IEEE Xplore® Browse My Settings Help

Access provided by Southeast University Sign Out

All

Journals & Magazines > IEEE Transactions on Computer... > Volume: 43 Issue: 12

Multiagent Based Reinforcement Learning (MA-RL): An Automated Designer for Complex Analog Circuits

Publisher: IEEE Cite This PDF

Jiarui Bao; Jinxin Zhang; Zhangcheng Huang; Zhaori Bi; Xingwei Feng; Xuan Zeng All Authors

8 Cites in Papers 1440 Full Text Views

Abstract

Document Sections

- I. Introduction
- II. Related Work
- III. Methodology

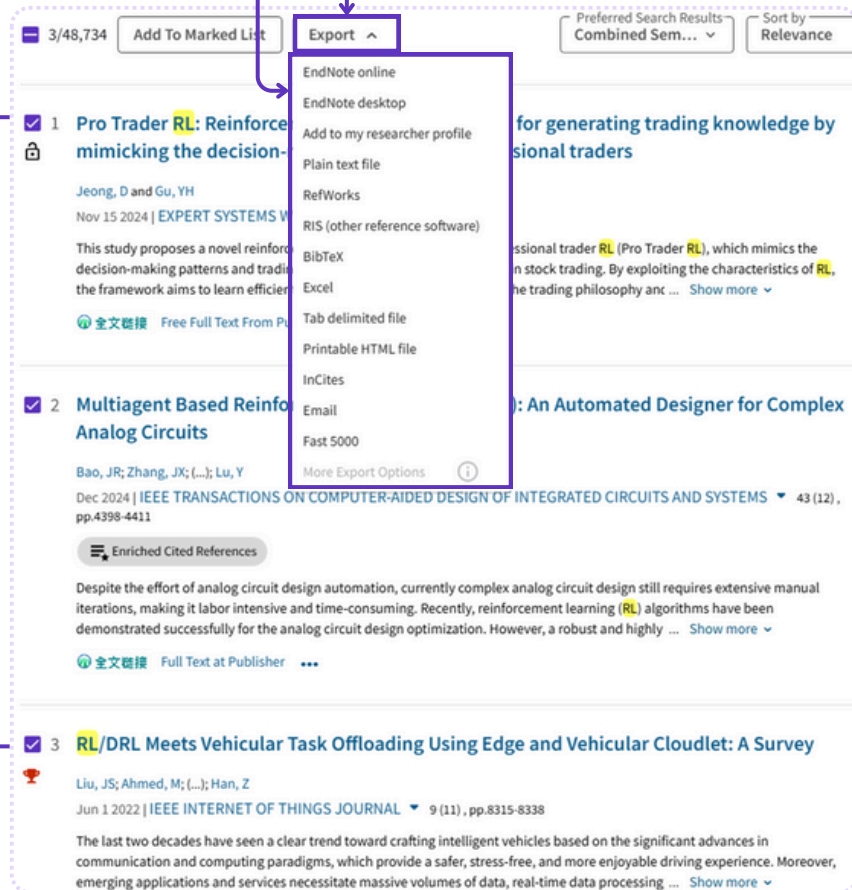
Just scroll down to start your journey!

4. Downloading and Reading

4.3 Exporting Certain Information

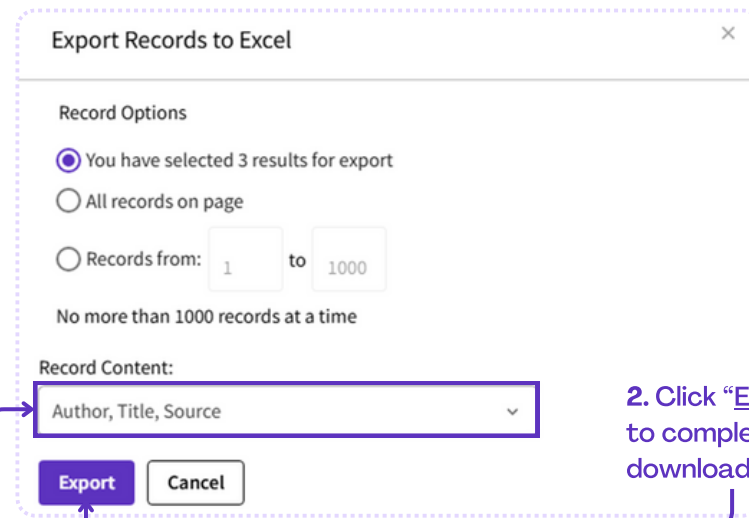
If you don't want to download the full article but only need to access certain information:

1. Select the documents you want to learn more about.
2. Select the file type to export here.
3. Click "Export" to export the information.



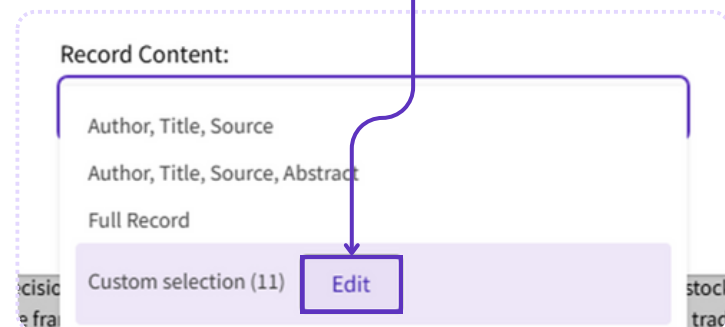
4. Downloading and Reading

In the popup dialog:



2. Click "Export" to complete the download.

1. Clicking the content in the box on the upper image will bring up the dropdown menu in the image below. The menu contains preset download options for you to choose from, and you can also click the "Edit" button to customize the download content.



5. Remarkable Features

5.1 Integrated Impact Factor Viewer

Imagine reading a research article and being curious about the reputation of its publishing journal. Instead of opening another tab or searching elsewhere, you can instantly check the [Journal Impact Factor](#) within the same interface.

LKD-STNN: A Lightweight Malicious Traffic Detection Method for Internet of Things Based on Knowledge Distillation

By [Zhu, SZ \(Zhu, Shizhou\)](#) ^[1]; [Xu, XL \(Xu, Xiaolong\)](#) ^{[1], [2]}; [Zhao, J \(Zhao, Juan\)](#) ^[3]; [Xiao, F \(Xiao, Fu\)](#) ^[1]

View Web of Science ResearcherID and ORCID (provided by Clarivate)

Source: **IEEE INTERNET OF THINGS JOURNAL**
Volume: 11 Issue: 4 Page: 6438-6453

[View Journal Impact](#)

Search within Web of Science

1. Click the downward arrow next to the journal name in the [Source](#) row, then select “[View Journal Impact](#)” in the popup menu.

2. Check out the detailed information of the journal, including the [Journal Impact Factor](#).

3. To view the full [Journal Citation Report](#), click the link below.

Journal information

IEEE INTERNET OF THINGS JOURNAL
Publisher name: IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC

Journal Impact Factor™
8.9 (2024) 9.6 (Five Year)

JCR Category	Category Rank	Category Quartile
COMPUTER SCIENCE, INFORMATION SYSTEMS <i>in SCIE edition</i>	11/258	Q1
ENGINEERING, ELECTRICAL & ELECTRONIC <i>in SCIE edition</i>	23/368	Q1
TELECOMMUNICATIONS <i>in SCIE edition</i>	10/120	Q1

Source: [Journal Citation Reports 2024](#) [Go to Journal Citation Reports](#)

5. Remarkable Features

5.2 Journal Citation Reports(JCR)

Web of Science is the official publishing platform for [Journal Impact Factor](#), ensuring the data is authoritative and reliable. The impact factor you see here is a recognized benchmark in academia worldwide.

The JCR page allows you to view a journal’s impact factor, citation metrics, and subject rankings to assess its academic influence. Here you can find:

Journal Impact Factor(JIF)

Journal Impact Factor

The Journal Impact Factor (JIF) is a journal-level metric calculated from data indexed in the Web of Science Core Collection. It should be used with careful attention to the many factors that influence citation rates, such as the volume of publication and citations characteristics of the subject area and type of journal. The Journal Impact Factor can complement expert opinion and informed peer review. In the case of academic evaluation for tenure, it is inappropriate to use a journal-level metric as a proxy measure for individual researchers, institutions, or articles. [Learn more](#)

8.9 (2024) **7.5** (Five Year)

Journal Impact Factor Trend 2024

Journal Impact Factor contributing items	Citable Items (1,365)	Citing Sources (2,134)
6G Internet of Things: A Comprehensive Survey		278
A Survey on Federated Learning for Resource-Constrained IoT Devices		164
A Survey on the Metaverse: The State of the-Art, Technologies, Applications, and Challenges		164
Learning Graph-Structures With Transformer for Multivariate Time-Series Anomaly Detection in IoT		129
IoT, Big Data, and Artificial Intelligence in Agriculture and Food Industry		116
Federated Learning-Based Anomaly Detection for IoT Security Attacks		107
A Survey on the Convergence of Edge Computing and AI for UWS: Opportunities and Challenges		101
Integrated Satellite-Terrestrial Networks Toward 6G: Architectures, Applications, and Challenges		98
Recent Advances on Federated Learning for Cybersecurity and Cybersecurity for Federated Learning for Internet of Things		98

Journal Citation Indicator(JCI)

Journal Citation Indicator (JCI)

2.21

The Journal Citation Indicator (JCI) is the average Category Normalized Citation Impact (CNCI) of citable items (articles & reviews) published by a journal over a recent three year period. The average JCI in a category is 1. Journals with a JCI of 1.5 have 50% more citation impact than the average in that category. It may be used alongside other metrics to help you evaluate journals. [Learn more](#)

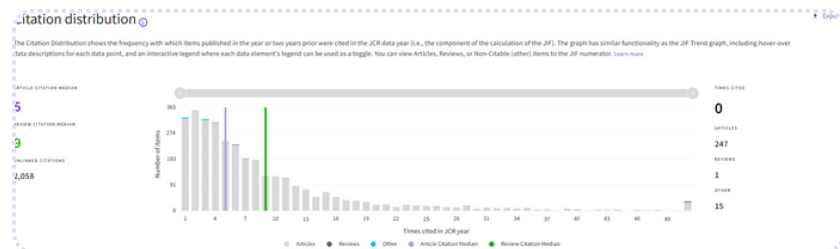
Total Citations

78,245

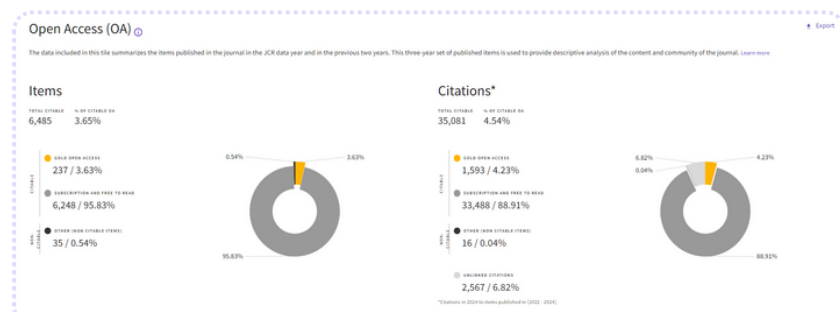
The total number of times that a journal has been cited by all journals included in the database in the JCR year. Citations to journals listed in JCR are compiled annually from the JCR years combined database, regardless of which JCR edition lists the journal.

5. Remarkable Features

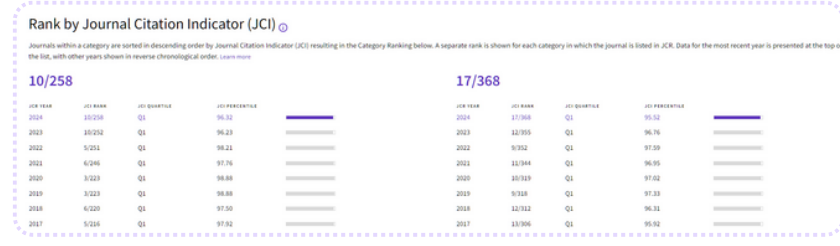
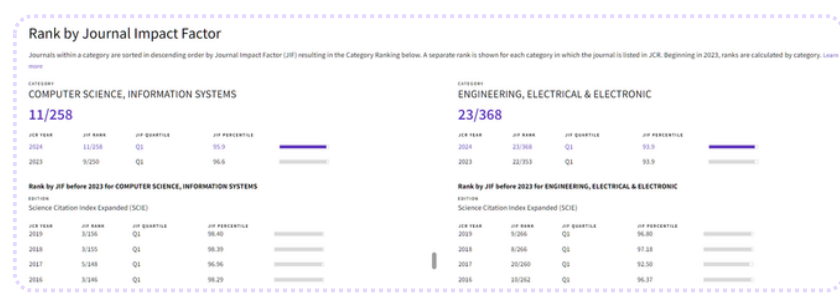
Citation Distribution



Open Access

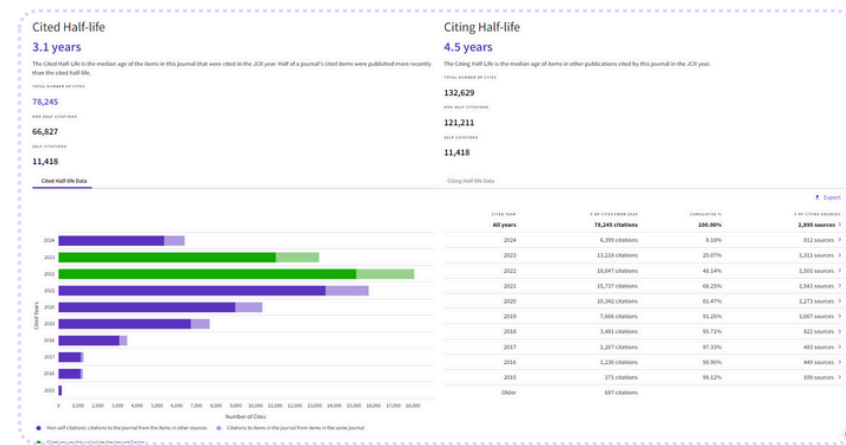


Rank by JIF and JCI

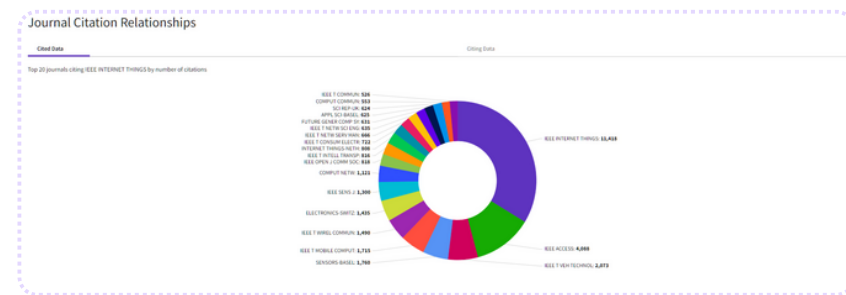


5. Remarkable Features

Citation Network



Journal Citation Relationships



With integrated impact factor viewer and JCR, Web of Science seamlessly connects paper search with journal evaluation, allowing you to instantly evaluate the authority and influence of its publishing platform while researching literature, providing key decision-making support for your submission and academic reading.