

JCR Year  
2024

# JOURNAL OF NETWORK AND COMPUTER APPLICATIONS

[View title change](#)

ISSN

1084-8045

EISSN

1095-8592

JCR ABBREVIATION

J NETW COMPUT APPL

ISO ABBREVIATION

J. Netw. Comput. Appl.

## Journal information

EDITION

Science Citation Index  
Expanded (SCIE)

CATEGORY

COMPUTER SCIENCE,  
INTERDISCIPLINARY  
APPLICATIONSCOMPUTER SCIENCE,  
SOFTWARE  
ENGINEERINGCOMPUTER SCIENCE,  
HARDWARE &  
ARCHITECTURE

LANGUAGES

English

REGION

ENGLAND

1ST ELECTRONIC JCR YEAR

1997

## Publisher information

PUBLISHER

ACADEMIC  
PRESS LTD-  
ELSEVIER  
SCIENCE LTD

ADDRESS

24-28 OVAL RD,  
LONDON NW1  
7DX, ENGLAND

PUBLICATION FREQUENCY

18 issues/year

# Journal's performance

## 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](#)

2024 JOURNAL IMPACT  
FACTORJOURNAL IMPACT FACTOR WITHOUT SELF  
CITATIONSJournal Impact Factor contributing items [Expo](#) 18

8.0

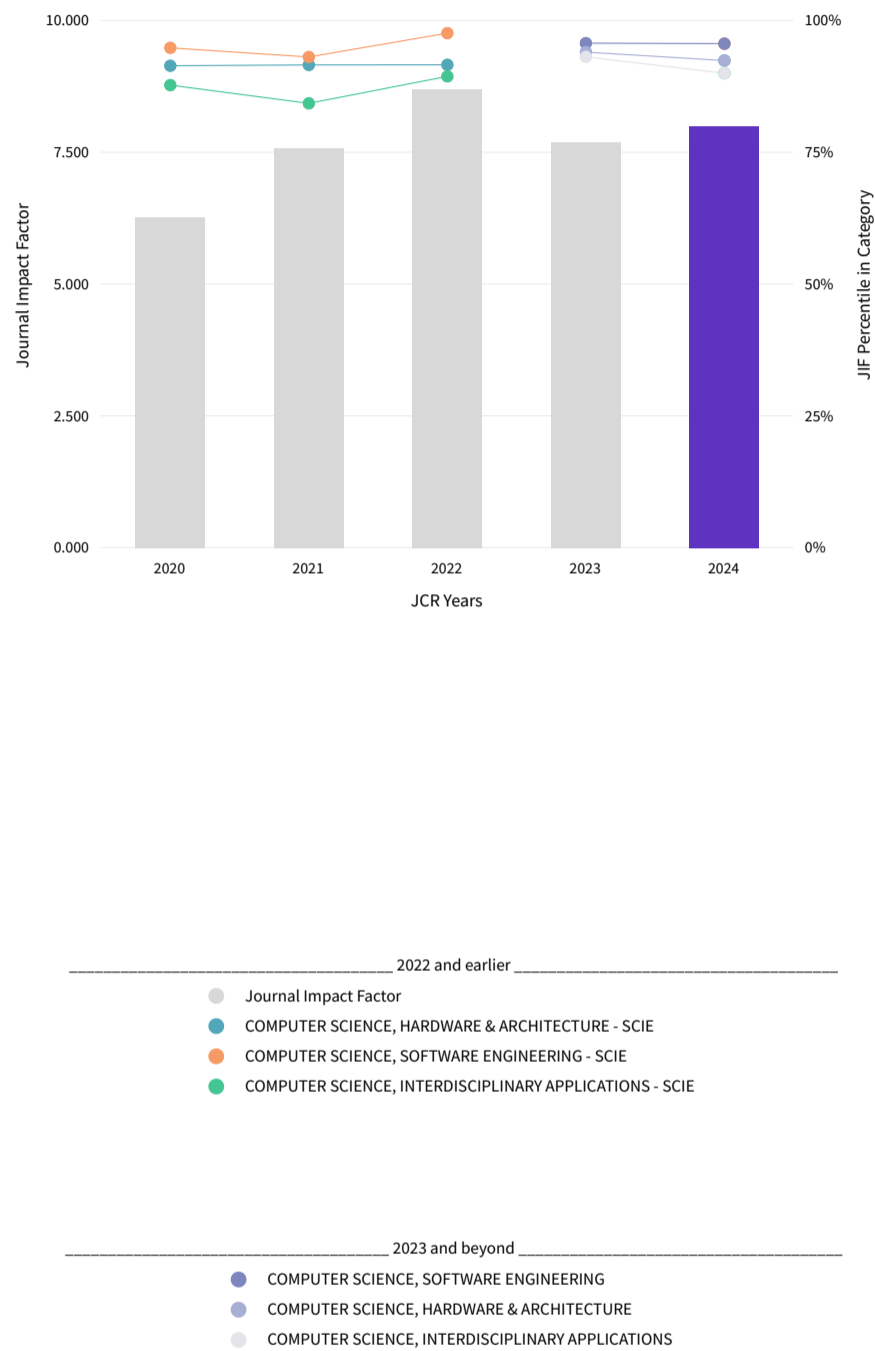
7.6

[View calculation](#)

[View calculation](#)

### Journal Impact Factor Trend 2024

[Export](#)



[View all years](#)

### Journal Citation Indicator (JCI)

[Export](#)

1.55

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](#)

Citable items (201)

Citing Sources (625)

TITLE	CITATION COUNT
Computation offloading in mobile edge computing networks: A survey	74
A contemporary survey on free space optical communication: Potentials,...	69
Review on cyber-physical and cyber-security system in smart grid:...	65
A survey of UAV-based data collection: Challenges, solutions and future...	58
Survey on computation offloading in UAV-Enabled mobile edge computing	54
Task offloading paradigm in mobile edge computing-current issues,...	46
Deadline-aware and energy-efficient IoT task scheduling in fog computing...	38
A comprehensive survey on security, privacy issues and emerging defence...	35
A survey on Zero touch network and Service Management (ZSM) for 5G an...	35
Open RAN security: Challenges and opportunities	35

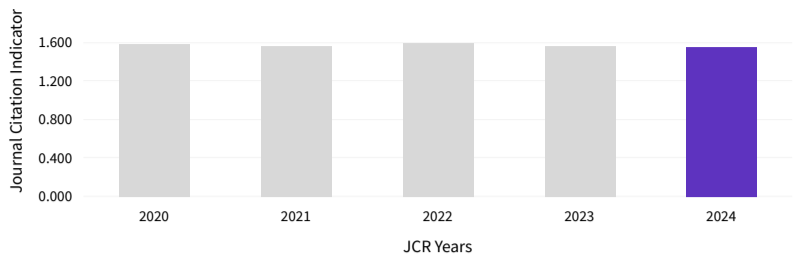
[View All in Web of Science](#)

### Total Citations

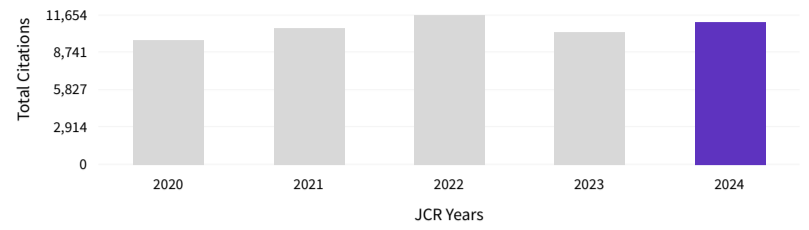
[Export](#)

11,091

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.



[View all years](#)



[View all years](#)

## Citation distribution

[Export](#)

The Citation Distribution shows the frequency with which items published in the year or two years prior were cited in the JCR data year (i.e., the component of the calculation of the JIF). The graph has similar functionality as the JIF Trend graph, including hover-over data descriptions for each data point, and an interactive legend where each data element's legend can be used as a toggle. You can view Articles, Reviews, or Non-Citable (other) items to the JIF numerator. [Learn more](#)

ARTICLE CITATION  
MEDIAN

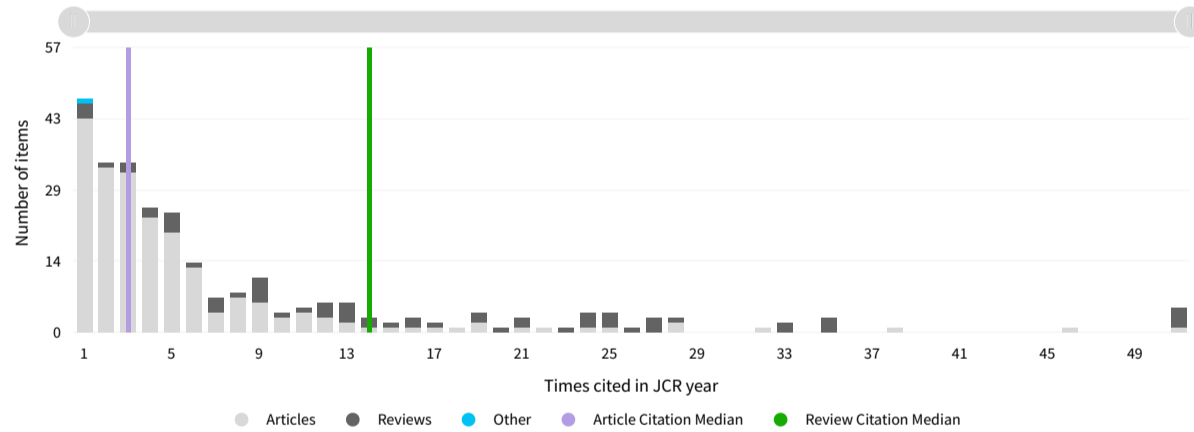
3

REVIEW CITATION  
MEDIAN

14

UNLINKED CITATIONS

71



TIMES CITED

0

ARTICLES

28

REVIEWS

0

OTHER

1

## Open Access (OA)

[Export](#)

The data included in this tile summarizes the items published in the journal in the JCR data year and in the previous two years. This three-year set of published items is used to provide descriptive analysis of the content and community of the journal. [Learn more](#)

### Items

TOTAL CITABLE 491  
% OF CITABLE OA 14.87%

### Citations\*

TOTAL CITABLE 2,521  
% OF CITABLE OA 18.76%

18

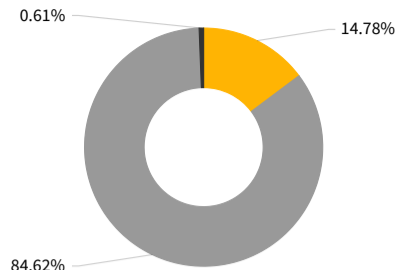
**CITABLE**

GOLD OPEN ACCESS  
73 / 14.78%

SUBSCRIPTION AND FREE TO READ  
418 / 84.62%

**NON-CITABLE**

OTHER (NON CITABLE ITEMS)  
3 / 0.61%



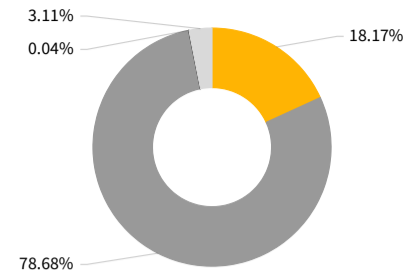
**CITABLE**

GOLD OPEN ACCESS  
473 / 18.17%

SUBSCRIPTION AND FREE TO READ  
2,048 / 78.68%

**NON-CITABLE**

OTHER (NON CITABLE ITEMS)  
1 / 0.04%



UNLINKED CITATIONS  
81 / 3.11%

\*Citations in 2024 to items published in [2022 - 2024]

## Rank by Journal Impact Factor

Journals within a category are sorted in descending order by Journal Impact Factor (JIF) resulting in the Category Ranking below. A separate rank is shown for each category in which the journal is listed in JCR. Beginning in 2023, ranks are calculated by category. [Learn more](#)

CATEGORY  
**COMPUTER SCIENCE, SOFTWARE ENGINEERING**

**6/129**

JCR YEAR	JIF RANK	JIF QUARTILE	JIF PERCENTILE
2024	6/129	Q1	95.7
2023	6/132	Q1	95.8

### Rank by JIF before 2023 for COMPUTER SCIENCE, SOFTWARE ENGINEERING

EDITION  
Science Citation Index Expanded (SCIE)

JCR YEAR	JIF RANK	JIF QUARTILE	JIF PERCENTILE
2022	3/108	Q1	97.7
2021	8/110	Q1	93.18
2020	6/108	Q1	94.91

CATEGORY  
**COMPUTER SCIENCE, SOFTWARE, GRAPHICS, PROGRAMMING**

**N/A**

### Rank by JIF before 2023 for COMPUTER SCIENCE, SOFTWARE, GRAPHICS, PROGRAMMING

EDITION  
Science Citation Index Expanded (SCIE)

JCR YEAR	JIF RANK	JIF QUARTILE	JIF PERCENTILE
2022	N/A	N/A	N/A
2021	N/A	N/A	N/A
2020	N/A	N/A	N/A



## Rank by Journal Citation Indicator (JCI) i

Journals within a category are sorted in descending order by Journal Citation Indicator (JCI) resulting in the Category Ranking below. A separate rank is shown for each category in which the journal is listed in JCR. Data for the most recent year is presented at the top of the list, with other years shown in reverse chronological order. [Learn more](#)

CATEGORY  
**COMPUTER SCIENCE, HARDWARE & ARCHITECTURE**  
**6/60**

JCR YEAR	JCI RANK	JCI QUARTILE	JCI PERCENTILE	
2024	6/60	Q1	90.83	<div style="width: 90.83%;"></div>
2023	6/59	Q1	90.68	<div style="width: 90.68%;"></div>
2022	6/63	Q1	91.27	<div style="width: 91.27%;"></div>
2021	6/62	Q1	91.13	<div style="width: 91.13%;"></div>
2020	6/58	Q1	90.52	<div style="width: 90.52%;"></div>
2019	6/57	Q1	90.35	<div style="width: 90.35%;"></div>

CATEGORY  
**COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS**  
**23/177**

JCR YEAR	JCI RANK	JCI QUARTILE	JCI PERCENTILE	
2024	23/177	Q1	87.29	<div style="width: 87.29%;"></div>
2023	24/170	Q1	86.18	<div style="width: 86.18%;"></div>
2022	25/163	Q1	84.97	<div style="width: 84.97%;"></div>
2021	23/156	Q1	85.58	<div style="width: 85.58%;"></div>
2020	22/142	Q1	84.86	<div style="width: 84.86%;"></div>
2019	19/140	Q1	86.79	<div style="width: 86.79%;"></div>



# Citation network

## Cited Half-life

**4.7 years**

The Cited Half-Life is the median age of the items in this journal that were cited in the JCR year. Half of a journal's cited items were published more recently than the cited half-life.

TOTAL NUMBER OF CITES

**11,091**

NON SELF-CITATIONS

**10,690**

SELF-CITATIONS

**401**

Cited Half-life Data

## Citing Half-life

**4.6 years**

The Citing Half-Life is the median age of items in other publications cited by this journal in the JCR year.

TOTAL NUMBER OF CITES

**13,527**

NON SELF-CITATIONS

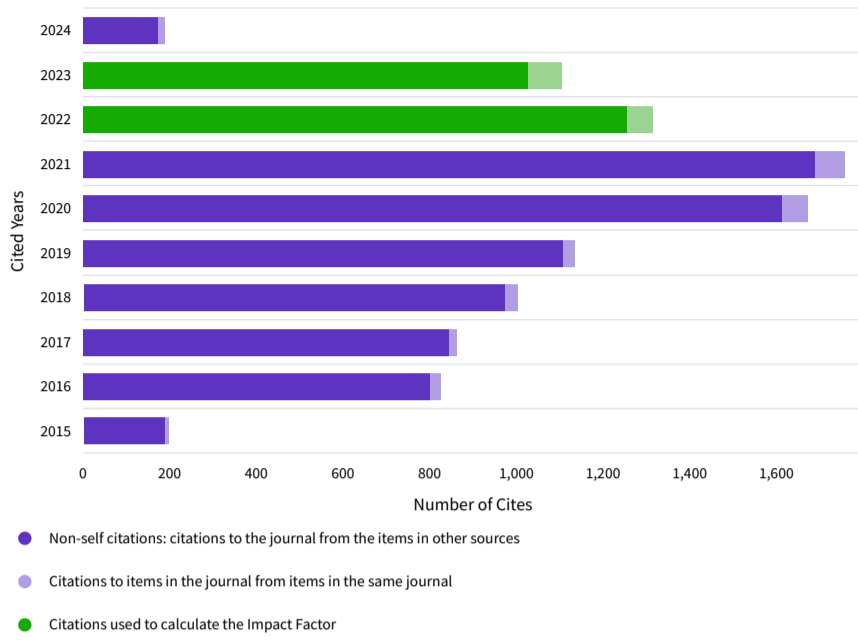
**13,126**

SELF-CITATIONS

**401**

Citing Half-life Data

CITED YEAR	# OF CITES FROM 2024	CUMULATIVE %	# OF CITING SOURCES
<b>All years</b>	<b>11,091 citations</b>	<b>100.00%</b>	<b>1,638 sources</b> >
2024	186 citations	1.68%	102 sources >
2023	1,103 citations	11.62%	348 sources >
2022	1,314 citations	23.47%	429 sources >
2021	1,756 citations	39.30%	561 sources >
2020	1,670 citations	54.36%	549 sources >
2019	1,134 citations	64.58%	421 sources >
2018	1,002 citations	73.62%	431 sources >
2017	862 citations	81.39%	350 sources >
2016	825 citations	88.83%	380 sources >
2015	198 citations	90.61%	111 sources >
Older	1,041 citations		

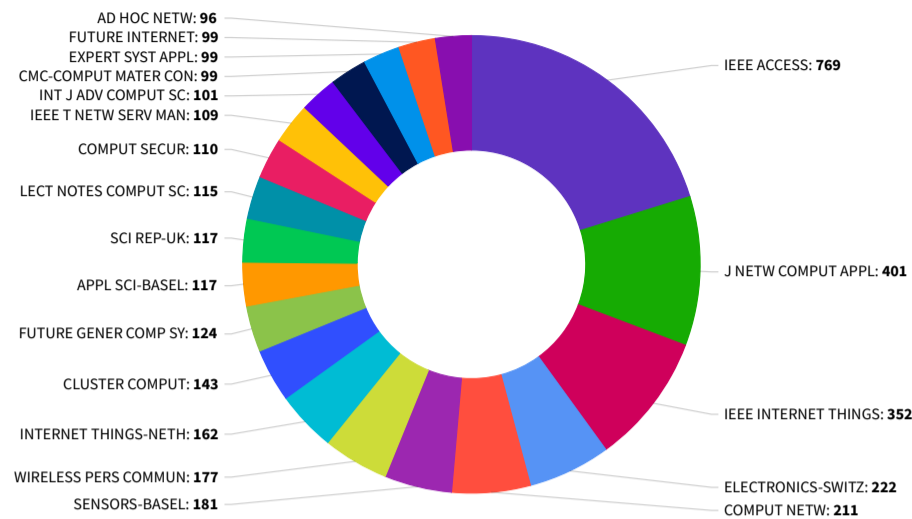


## Journal Citation Relationships

Cited Data

Citing Data

Top 20 journals citing J NETW COMPUT APPL by number of citations



# Content metrics

## Source data

This tile shows the breakdown of document types published by the journal. Citable Items are Articles and Reviews. For the purposes of calculating JIF, a JCR year considers the publications of that journal in the two prior years. [Learn more](#)

**190 total citable items**

	ARTICLES	REVIEWS	COMBINED(C)	OTHER DOCUMENT TYPES(O)	PERCENTAGE
NUMBER IN JCR YEAR 2024 (A)	167	23	190	1	99%
NUMBER OF REFERENCES (B)	9,333	4,190	13,523	4	100%
RATIO (B/A)	55.9	182.2	71.2	4.0	

## Average JIF Percentile [Export](#)

The Average Journal Impact Factor Percentile takes the sum of the JIF Percentile rank for each category under consideration, then calculates the average of those values. [Learn more](#)

ALL CATEGORIES AVERAGE	<b>92.8</b>
COMPUTER SCIENCE, SOFTWARE ENGINEERING	<b>95.7</b>
COMPUTER SCIENCE, HARDWARE & ARCHITECTURE	<b>92.5</b>
COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS	<b>90.1</b>

## Contributions by organizations

[Export](#)

Organizations that have contributed the most papers to the journal in the most recent three-year period. [Learn more](#)

RANK	ORGANIZATION	COUNT
1	KING SAUD UNIVERSITY	16
2	NATIONAL INSTITUTE OF TECHNOLOGY (NIT SYSTEM)	11
3	EGYPTIAN KNOWLEDGE BANK (EKB)	10
-	INDIAN INSTITUTE OF TECHNOLOGY SYSTEM (IIT SYSTEM)	10
-	XIDIAN UNIVERSITY	10
6	BEIJING UNIVERSITY OF POSTS & TELECOMMUNICATIONS	9
-	ISLAMIC AZAD	9

## Contributions by country/region

[Export](#)

Countries or Regions that have contributed the most papers to the journal in the most recent three-year period. [Learn more](#)

RANK	COUNTRY / REGION	COUNT
1	CHINA MAINLAND	162
2	INDIA	64
3	USA	50
4	SOUTH KOREA	45
5	AUSTRALIA	38
6	SAUDI ARABIA	33
7	IRAN	30
8	FRANCE	24
-	UNITED ARAB EMIRATES	24

# Additional metrics

## Eigenfactor Score

[Export](#)

**0.00999**

The Eigenfactor Score is a reflection of the density of the network of citations around the journal using 5 years of cited content as cited by the Current Year. It considers both the number of citations and the source of those citations, so that highly cited sources will influence the network more than less cited sources. The Eigenfactor calculation does not include journal self-citations. [Learn more](#)

## Normalized Eigenfactor

[Export](#)

**2.23850**

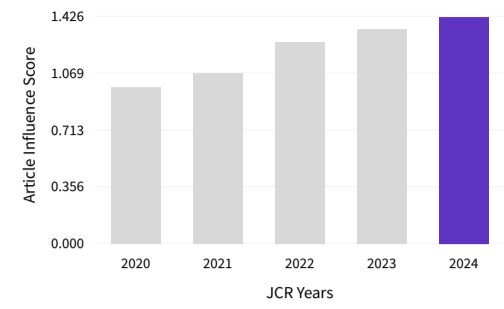
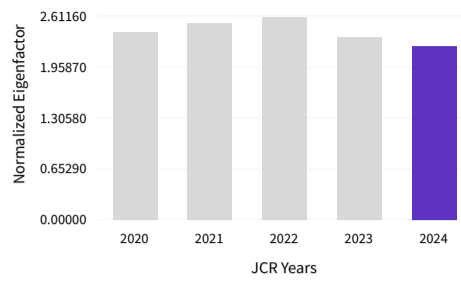
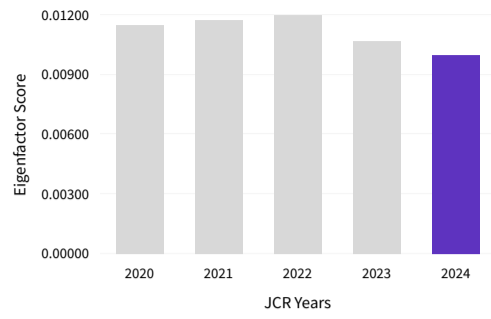
The Normalized Eigenfactor Score is the Eigenfactor score normalized, by rescaling the total number of journals in the JCR each year, so that the average journal has a score of 1. Journals can then be compared and influence measured by their score relative to 1. [Learn more](#)

## Article influence score

[Export](#)

**1.426**

The Article Influence Score normalizes the Eigenfactor Score according to the cumulative size of the cited journal across the prior five years. The mean Article Influence Score for each article is 1.00. A score greater than 1.00 indicates that each article in the journal has above-average influence. [Learn more](#)



## 5 Year Impact Factor

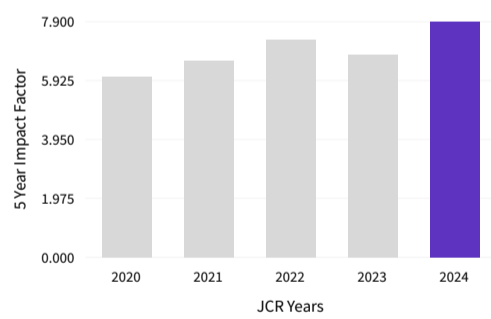


7.9

[View Calculation](#)

The 5-year Impact Factor is the average number of times articles from the journal published in the past five years have been cited in the JCR year. It is calculated by dividing the number of citations in the JCR year by the total number of articles published in the five previous years.

[Learn more](#)



## Immediacy Index

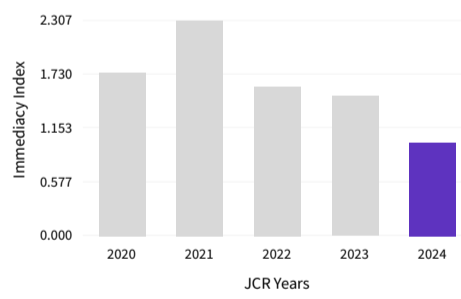


1.0

[View Calculation](#)

The Immediacy Index is the count of citations in the current year to the journal that reference content in this same year. Journals that have a consistently high Immediacy Index attract citations rapidly.

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