

2024 Journal Performance Data for: Journal of Agricultural Machinery

 Open Access since 2011

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2228-6829

EISSN

2423-3943

JCR ABBREVIATION

J AGR MACH-IRAN

ISO ABBREVIATION

J. Agr. Mach.

Journal Information

EDITION

Emerging Sources Citation
Index (ESCI)

CATEGORY

AGRICULTURAL ENGINEERING

LANGUAGES

Multi-Language

REGION

IRAN

1ST ELECTRONIC JCR YEAR

2023

Publisher Information

PUBLISHER

FERDOWSI UNIV MASHHAD
PRESS

ADDRESS

Ferdowsi University of
Mashhad (FUM) Campus,
Azadi Sq, MASSHAD, Khorasan
Razavi 9177948974, IRAN

PUBLICATION FREQUENCY

4 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](#)

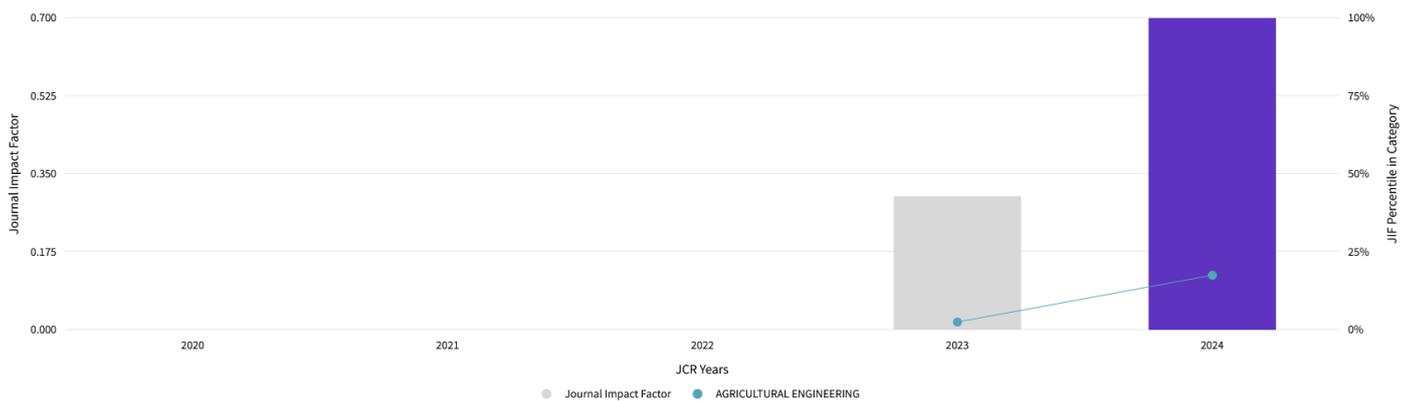
2024 JOURNAL IMPACT FACTOR

0.7

2024 JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS

0.7

Journal Impact Factor Trend 2024



Journal Impact Factor is calculated using the following metrics

$$\frac{\text{Citations in 2024 to items published in 2022 (25) - 2023 (28)}}{\text{Number of citable items in 2022 (44) + 2023 (33)}} = \frac{53}{77} = 0.7$$

Journal Impact Factor without self cites is calculated using the following metrics

$$\frac{\text{Citations in 2024 to items published in 2022 (25) + 2023 (28) - Self Citations in 2024 to items published in 2022 (2) + 2023 (0)}}{\text{Number of citable items in 2022 (44) + 2023 (33)}} = \frac{53 - 2}{77} = 0.7$$

Journal Impact Factor Contributing Items

Citable Items (77)

TITLE	CITATION COUNT
Detection of Cucumber Fruit on Plant Image Using Artificial Neural Network Authors: Mohammadzamani, D.;Javidan, S. M.;Zand, M.;Rasouli, M. Volume: 13 Accession number: WOS:001143851300004 Document Type: Article	5
Comparison of Fiber Reinforced Polymer (FRP) Composite Blade with Steel Blade Performance Used in Chisel Plow Authors: Rahmatian, M.;Karparvarfard, S. H.;Nematollahi, M. A.;Malvajerdi, A. Sharifi Volume: 12 Accession number: WOS:001143850400004 Document Type: Article	4
Microscopic Investigation of Cold Plasma Effect on Chickpea Seed Germination Authors: Fereydooni, M.;Alizadeh, H. Haji Agha Volume: 12 Accession number: WOS:001144364100007 Document Type: Article	3
Experimental Investigation of Performance and Emissions of a Compression Ignition Engine Using a Combination of Compressed Natural Gas and Diesel Fuel Authors: Niknam, Y.;Mohammadzamani, D.;Pareshkoohi, M. Gholami Volume: 13 Accession number: WOS:001143851300003 Document Type: Article	2
Development and Field Evaluation of a Variable-Depth Tillage Tool Based on a Horizontal Pneumatic Sensor Measurement Authors: Tahmasebi, M.;Gohari, M.;Malvajerdi, A. Sharifi;Hedayatipoor, A. Volume: 13 Accession number: WOS:001143851300007 Document Type: Article	1

Showing 1-5 rows of 77 total (use export in the relevant section to download the full table)

Journal Impact Factor Contributing Items

Citing Sources (35)

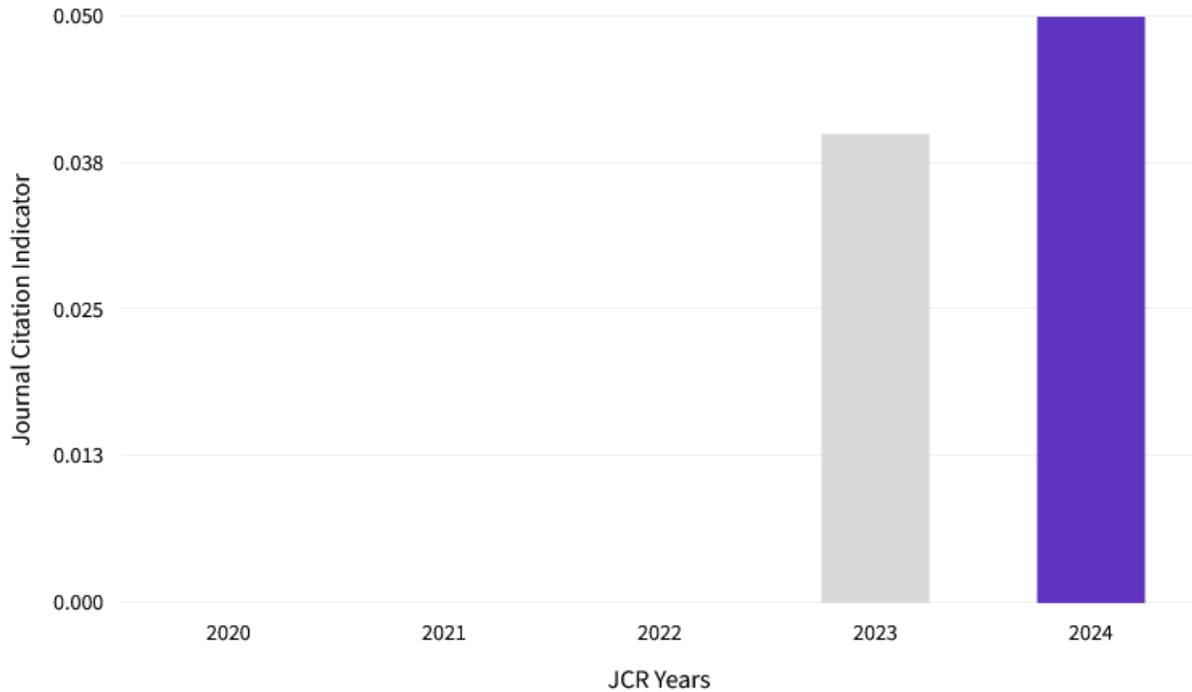
SOURCE NAME	COUNT
INMATEH-AGRICULTURAL ENGINEERING	11
2024 5TH INTERNATIONAL CONFERENCE ON COMPUTER ENGINEERING AND APPLICATION, ICCEA 2024	3
JOURNAL OF FOOD PROCESS ENGINEERING	3
DISCOVER APPLIED SCIENCES	2
IEEE SENSORS JOURNAL	2
JOURNAL OF AGRICULTURAL MACHINERY	2
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS	2
2024 35TH ANNUAL SEMI ADVANCED SEMICONDUCTOR MANUFACTURING CONFERENCE, ASMC	1
AGRIENGINEERING	1
AGRONOMY JOURNAL	1
AGRONOMY-BASEL	1
BIORESOURCES	1
BMC BIOTECHNOLOGY	1
BRITISH POULTRY SCIENCE	1
CASE STUDIES IN THERMAL ENGINEERING	1
COMMUNICATION AND INTELLIGENT SYSTEMS, VOL 1, ICCIS 2023	1
COMPUTERS AND ELECTRONICS IN AGRICULTURE	1
COMPUTING AND INFORMATICS	1
CROP SCIENCE	1
ECOLOGY AND EVOLUTION	1

Showing 1-20 rows of 35 total (use export in the relevant section to download the full table)

Journal Citation Indicator (JCI)

0.05

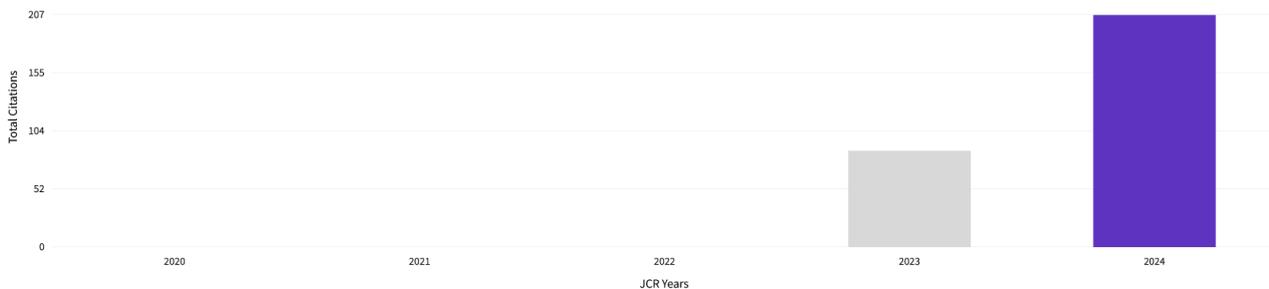
The Journal Citation Indicator (JCI) is the average Category Normalized Citation Impact (CNCI) of citable items (articles & reviews) published by a journal over a recent three year period. The average JCI in a category is 1. Journals with a JCI of 1.5 have 50% more citation impact than the average in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



Total Citations

207

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.



Citation Distribution

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

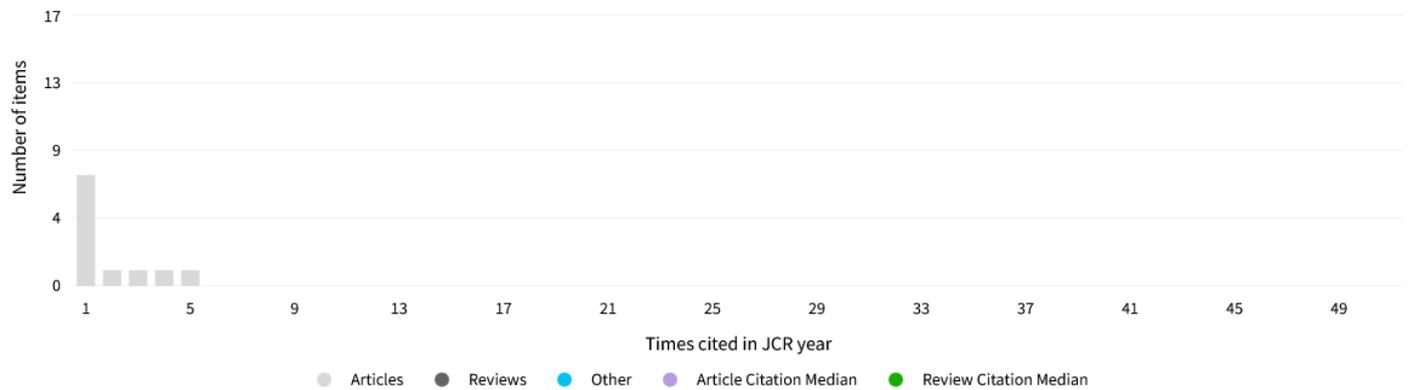
0

REVIEW CITATION MEDIAN

0

UNLINKED CITATIONS

32



0 times cited

ARTICLES

65

REVIEWS

1

OTHER

0

Open Access (OA)

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

105

% OF CITABLE OA

0.00%

CITABLE

● GOLD OPEN ACCESS

0 / 0.00%

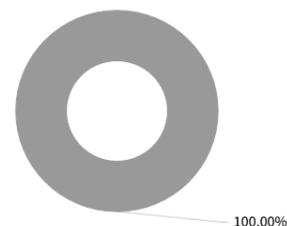
● SUBSCRIPTION OR BRONZE

105 / 100.00%

NON-CITABLE

● OTHER (NON-CITABLE ITEMS)

0 / 0.00%



Citations*

TOTAL CITABLE

24

% OF CITABLE OA

0.00%

CITABLE

● GOLD OPEN ACCESS

0 / 0.00%

● SUBSCRIPTION OR BRONZE

24 / 40.00%

NON-CITABLE

● OTHER (NON-CITABLE ITEMS)

0 / 0.00%

● UNLINKED CITATIONS

36 / 60.00%



* 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

AGRICULTURAL ENGINEERING

17/20

JCR YEAR	JIF RANK	QUARTILE	JIF PERCENTILE	
2024	17/20	Q4	17.5	
2023	20/20	Q4	2.5	

Rank by Journal Citation Indicator (JCI)

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

AGRICULTURAL ENGINEERING

19/20

JCR YEAR	JCI RANK	QUARTILE	JCI PERCENTILE	
2024	19/20	Q4	7.50	
2023	19/20	Q4	7.50	

Citation network

Cited Half-life

4.2 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

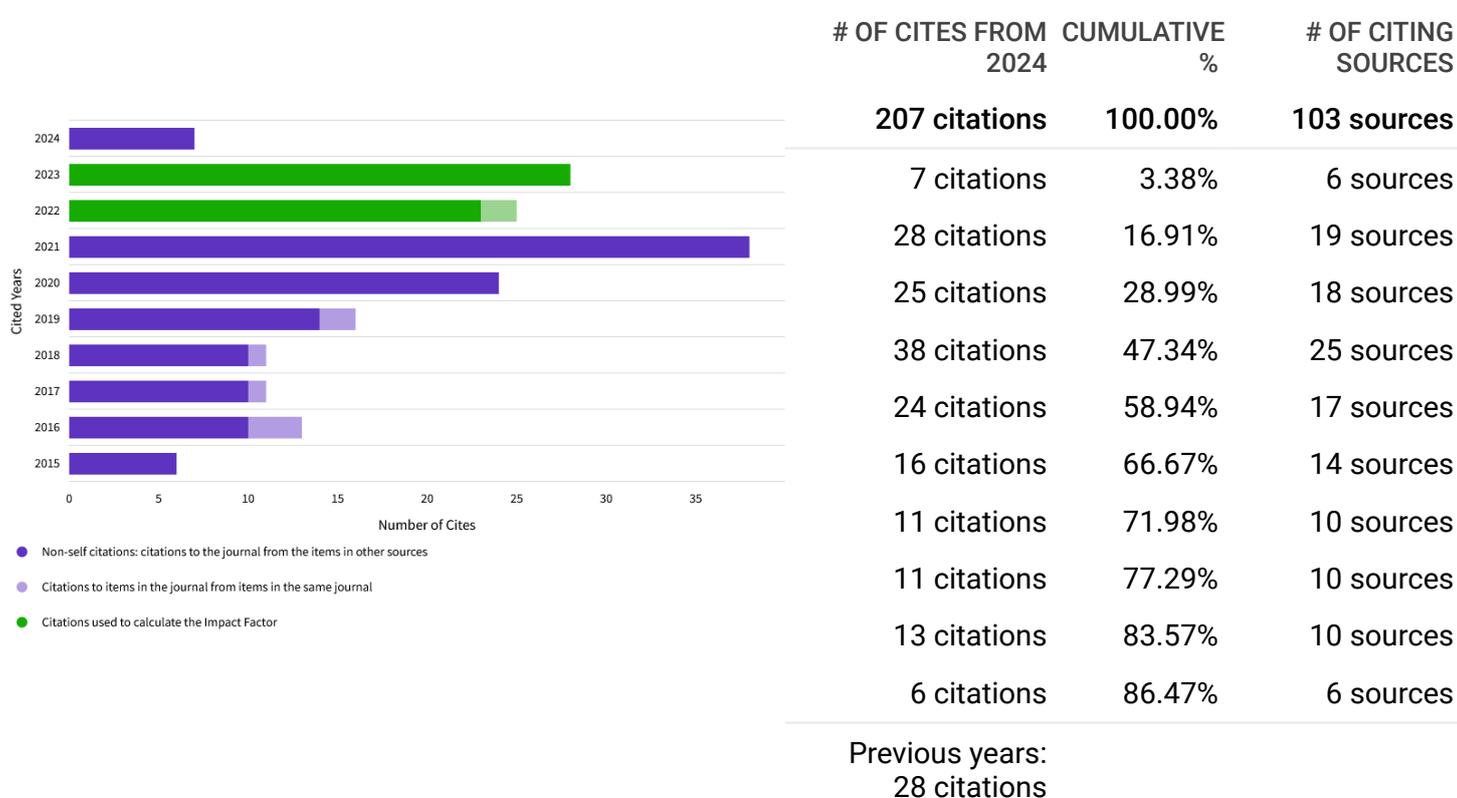
207

NON-SELF CITATIONS

197

SELF CITATIONS

10



Citing titles in all years

Journal of Agricultural Machinery

	SOURCE NAME	COUNT
	All Others	66
1	INMATEH-Agricultural Engineering	29
2	Engenharia Agricola	10
3	Journal of Agricultural Machinery	10
4	BioResources	7
5	APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH	6
6	JOURNAL OF FOOD PROCESS ENGINEERING	5
7	Applied Fruit Science	4
8	Environmental and Sustainability Indicators	4
9	Industrial Robot-The International Journal of Robotics Research and Application	4
10	C CYBERN INTELL S	3
11	Discover Applied Sciences	3
12	Heliyon	3
13	INT C COMPUT ENG APP	3
14	Journal of Applied Fluid Mechanics	3
15	JOURNAL OF INTELLIGENT & FUZZY SYSTEMS	3
16	Agriculture-Basel	2
17	Agronomy-Basel	2
18	BIOSYSTEMS ENGINEERING	2
19	BRITISH POULTRY SCIENCE	2
20	COMPUTERS AND ELECTRONICS IN AGRICULTURE	2

Showing 1 - 20 rows of 37 total (use export in the relevant section to download the full table)

Citing Half-life

8.5 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

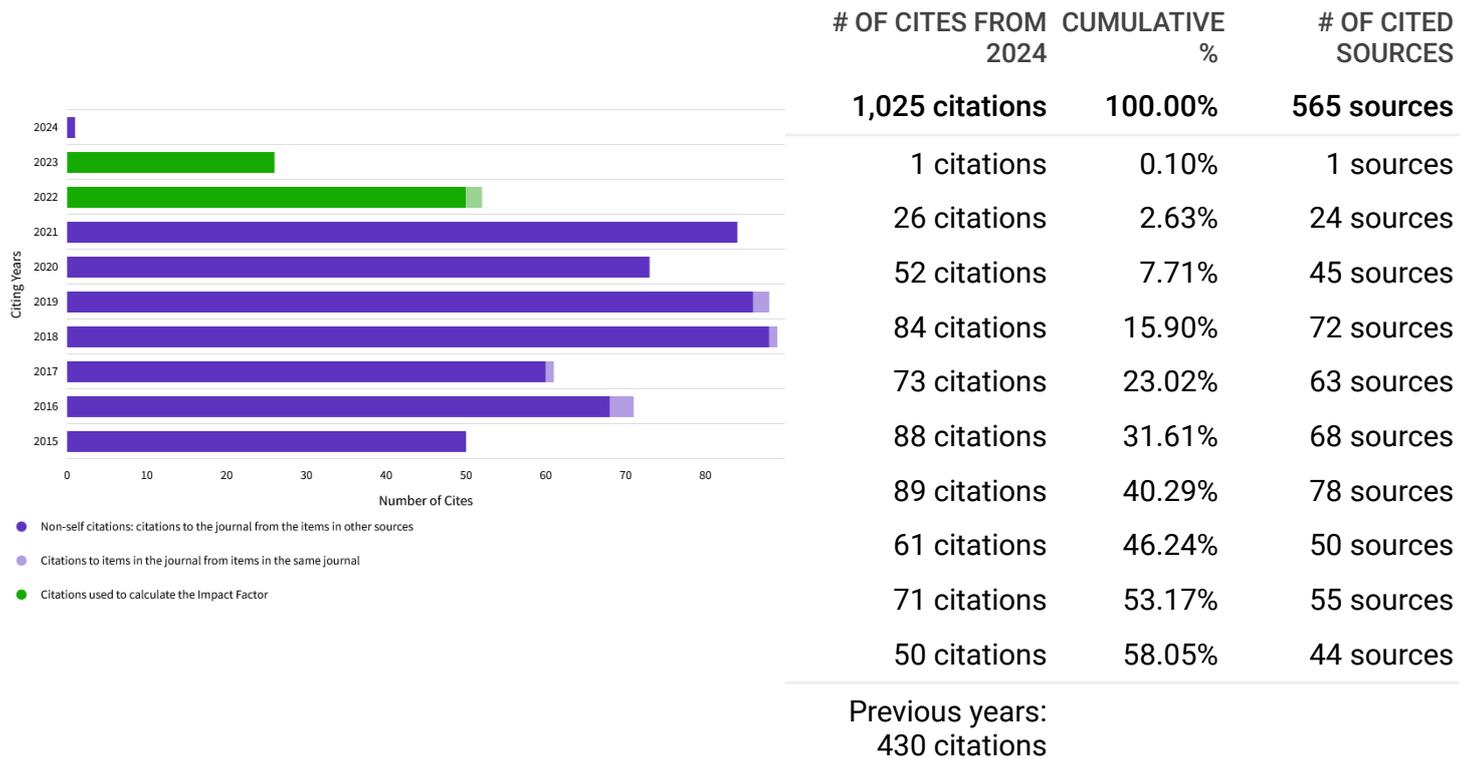
1,025

NON-SELF CITATIONS

1,015

SELF CITATIONS

10



Cited titles in all years

Journal of Agricultural Machinery

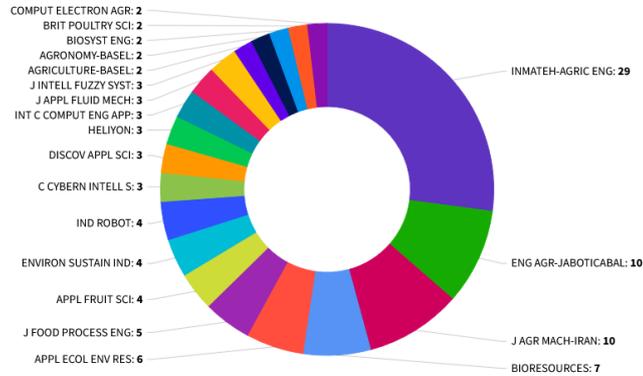
	SOURCE NAME	COUNT
	All Others	435
1	COMPUTERS AND ELECTRONICS IN AGRICULTURE	34
2	JOURNAL OF FOOD ENGINEERING	23
3	BIOSYSTEMS ENGINEERING	17
4	DRYING TECHNOLOGY	17
5	BIORESOURCE TECHNOLOGY	14
6	Food Chemistry	13
7	Renewable Energy	13
8	SOIL & TILLAGE RESEARCH	13
9	Food and Bioprocess Technology	10
10	International Journal of Agricultural and Biological Engineering	10
11	Journal of Agricultural Machinery	10
12	LWT-FOOD SCIENCE AND TECHNOLOGY	10
13	Energy	9
14	JOURNAL OF TERRAMECHANICS	9
15	POSTHARVEST BIOLOGY AND TECHNOLOGY	9
16	Scientific Reports	9
17	T ASABE	9
18	Innovative Food Science & Emerging Technologies	8
19	Journal of Cleaner Production	8
20	PLASMA CHEMISTRY AND PLASMA PROCESSING	8

Showing 1 - 20 rows of 130 total (use export in the relevant section to download the full table)

Journal Citation Relationships

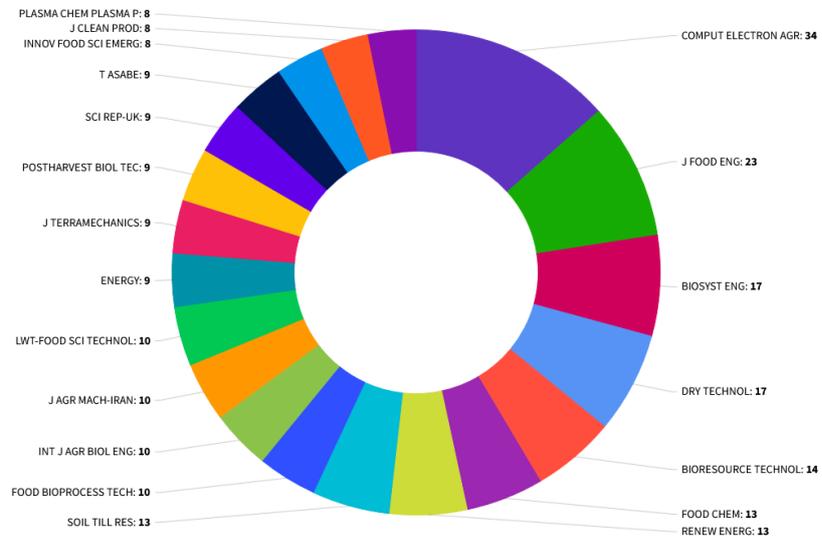
Cited Data

Top 20 journals citing J AGR MACH-IRAN by number of citations



Citing Data

Top 20 journals cited by J AGR MACH-IRAN 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](#)

28 total citable items

	ARTICLES	REVIEWS	COMBINED (C)	OTHER DOCUMENT TYPES (O)	PERCENTAGE
NUMBER IN JCR YEAR 2024 (A)	27	1	28	0	100%
NUMBER OF REFERENCES (B)	943	82	1,025	0	100%
RATIO (B/A)	34.9	82.0	36.6	N/A	

Average JIF Percentile

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

17.5

AGRICULTURAL ENGINEERING

17.5

Contributions by Organizations

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

RANK	ORGANIZATION	COUNT	
1	FERDOWSI UNIVERSITY MASHHAD	16	
2	SHAHID CHAMRAN UNIVERSITY OF AHVAZ	12	
3	AGR RES EDUC & EXTENS ORG AREEO	10	
4	URMIA UNIVERSITY	9	
5	BU ALI SINA UNIVERSITY	8	
-	UNIVERSITY OF TABRIZ	8	
7	AGR SCI & NAT RESOURCES UNIV KHUZESTAN	7	
-	ISLAMIC AZAD UNIVERSITY	7	

Showing 1 - 8 rows of 49 total (use export in the relevant section to download the full table)

Contributions by country/region

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	IRAN	104	
2	AUSTRALIA	1	
-	CANADA	1	
-	EGYPT	1	
-	SAUDI ARABIA	1	

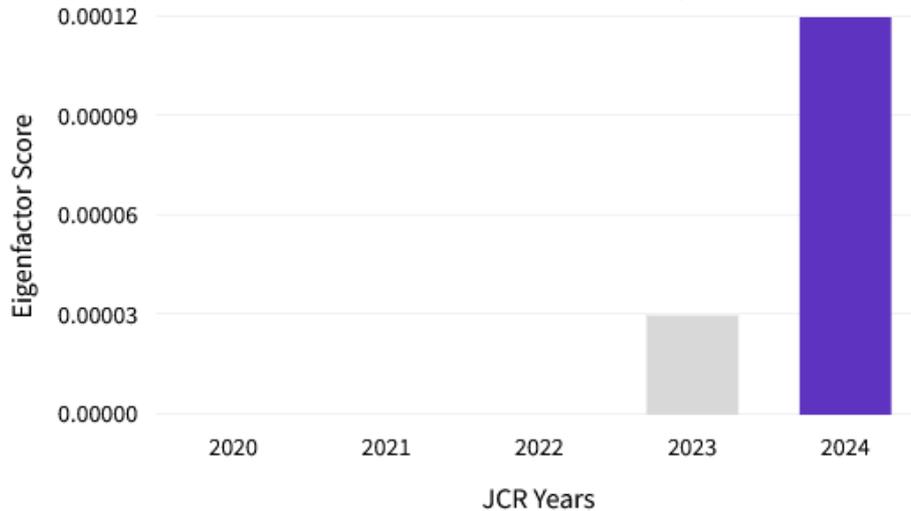
Showing 1 - 5 rows of 5 total (use export in the relevant section to download the full table)

Additional metrics

Eigenfactor score

0.00012

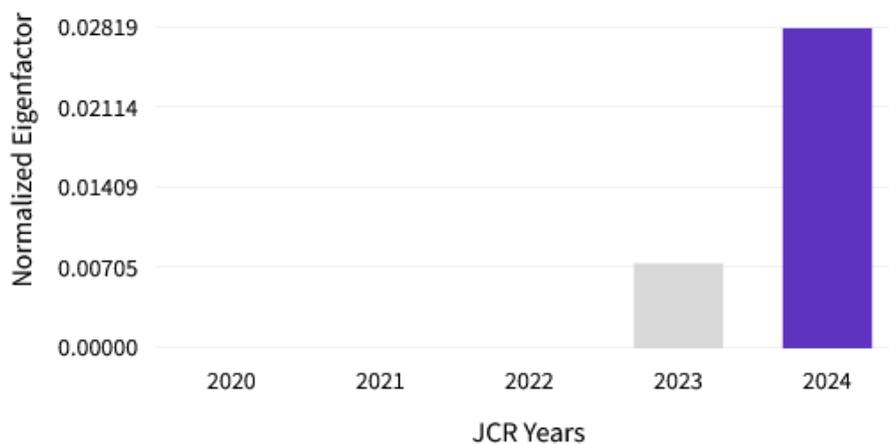
The Eigenfactor Score is a reflection of the density of the network of citations around the journal using 5 years of cited content as cited by the Current Year. It considers both the number of citations and the source of those citations, so that highly cited sources will influence the network more than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



Normalized Eigenfactor

0.02819

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](#)



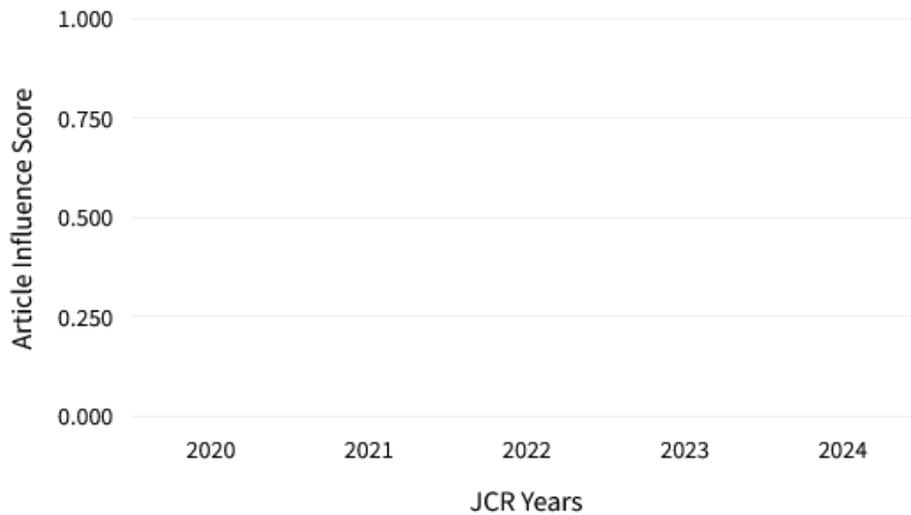
Article influence score

N/A

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](#)

Why is the value N/A?

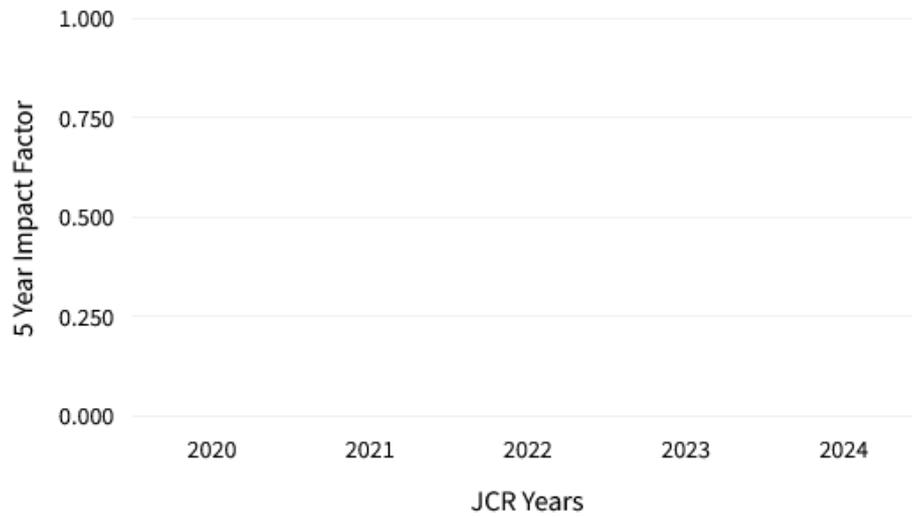
The Article Influence Score requires one year of citations and 6 prior years of source counts. For journals newly listed in the JCR the data necessary for the calculation of AI was not complete and the metric could not be calculated. [Learn more](#)



5 year Impact Factor

N/A

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.

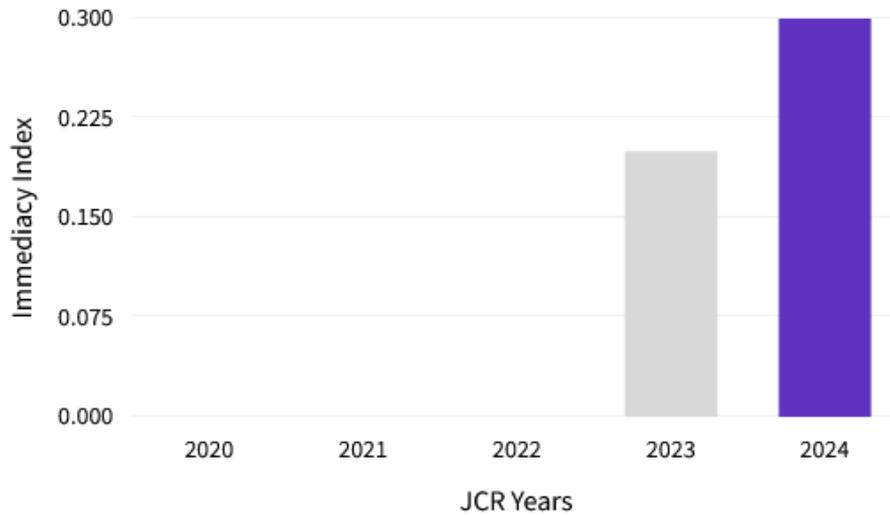


Immediacy Index

0.3

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.

[Learn more](#)



Immediacy Index calculation

$$\frac{\text{Cites in 2024 to items published in [2024]}}{\text{Number of citable items published in [2024]}} = \frac{7}{28} = 0.3$$