

2023 Journal Performance Data for: Network Science

ISSN	EISSN
2050-1242	2050-1250
JCR ABBREVIATION	ISO ABBREVIATION
NETW SCI	Netw. Sci.

Journal Information

EDITION	CATEGORY	
Emerging Sources Citation Index (ESCI)	SOCIAL SCIENCES, INTERDISCIPLINARY SOCIOLOGY SOCIAL SCIENCES, MATHEMATICAL METHODS	
LANGUAGES	REGION	1ST ELECTRONIC JCR YEAR
English	USA	2020

Publisher Information

PUBLISHER	ADDRESS	PUBLICATION FREQUENCY
CAMBRIDGE UNIV PRESS	EDINBURGH BLDG, SHAFTESBURY RD, CB2 8RU CAMBRIDGE, ENGLAND	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](#)

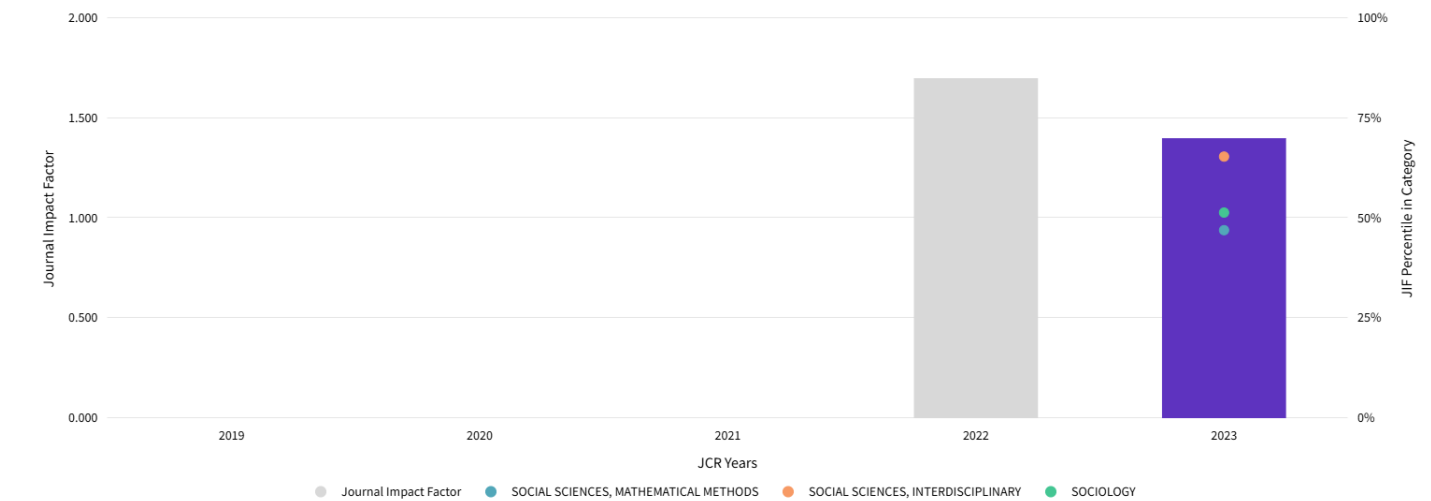
2023 JOURNAL IMPACT FACTOR

1.4

2023 JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS

1.3

Journal Impact Factor Trend 2023



Journal Impact Factor is calculated using the following metrics




Citations in 2023 to items published in 2021 (57) - 2022 (18)		75		
<hr/>				
Number of citable items in 2021 (31) + 2022 (24)	=	55	=	1.4

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

Citations in 2023 to items published in 2021 (57) + 2022 (18) - Self Citations in 2023 to items published in 2021 (5) + 2022 (1)		75 - 6		
<hr/>				
Number of citable items in 2021 (31) + 2022 (24)	=	55	=	1.3

Journal Impact Factor Contributing Items

Citable Items (55)

TITLE	CITATION COUNT
<p>Separable and semiparametric network-based counting processes applied to the international combat aircraft trades</p> <p>Authors: Fritz, Cornelius;Thurner, Paul W.;Kauermann, Goeran</p> <p>Volume: 9</p> <p>Accession number: WOS:000721243900004</p> <p>Document Type: Article</p>	<p>7</p> <p></p>
<p>Measuring reciprocity: Double sampling, concordance, and network construction</p> <p>Authors: Ready, Elspeth;Power, Eleanor A.</p> <p>Volume: 9</p> <p>Accession number: WOS:000728454600001</p> <p>Document Type: Article</p>	<p>6</p> <p></p>
<p>Sampling methods and estimation of triangle count distributions in large networks</p> <p>Authors: Antunes, Nelson;Guo, Tianjian;Pipiras, Vladas</p> <p>Volume: 9</p> <p>Accession number: WOS:000693677200009</p> <p>Document Type: Article</p>	<p>5</p>
<p>Artificial Benchmark for Community Detection (ABCD)-Fast random graph model with community structure</p> <p>Authors: Kaminski, Bogumil;Pralat, Pawel;Theberge, Francois</p> <p>Volume: 9</p> <p>Accession number: WOS:000653488400002</p> <p>Document Type: Article</p>	<p>4</p> <p></p>
<p>A network approach to measuring state preferences</p> <p>Authors: Gallop, Max;Minhas, Shahryar</p> <p>Volume: 9</p> <p>Accession number: WOS:000653488400001</p> <p>Document Type: Article</p>	<p>3</p>

Showing 1-5 rows of 55 total (use export in the relevant section to download the full table)

Journal Impact Factor Contributing Items

Citing Sources (53)

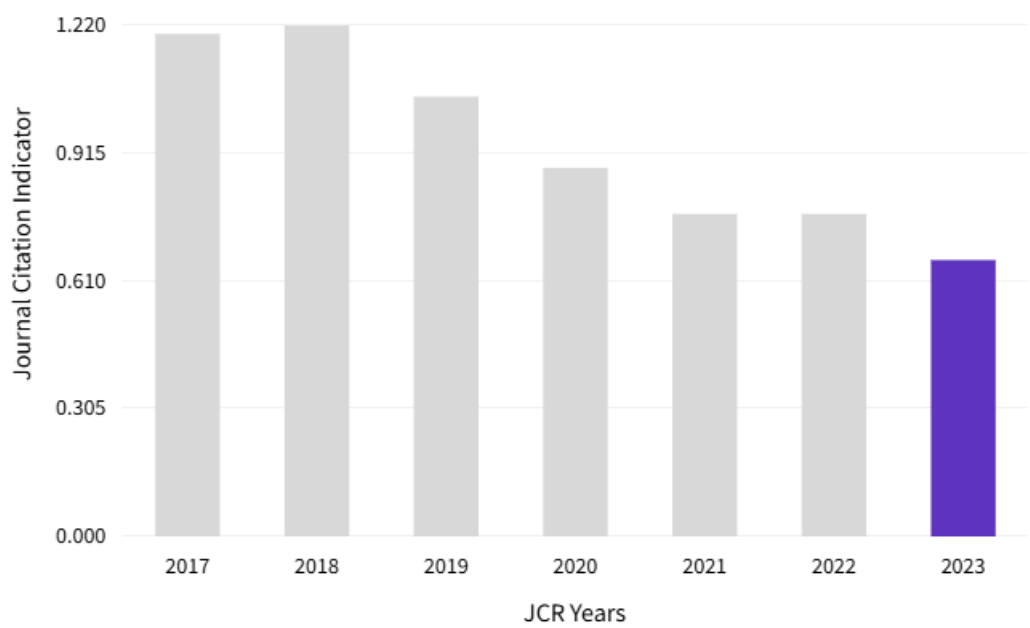
SOURCE NAME	COUNT
APPLIED NETWORK SCIENCE	6
NETWORK SCIENCE	6
COMPLEX NETWORKS AND THEIR APPLICATIONS XI, COMPLEX NETWORKS 2022, VOL 2	5
SOCIAL NETWORKS	5
JOURNAL OF COMPLEX NETWORKS	3
EXPERT SYSTEMS WITH APPLICATIONS	2
PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES	2
14TH ACM CONFERENCE ON BIOINFORMATICS, COMPUTATIONAL BIOLOGY, AND HEALTH INFORMATICS, BCB 2023	1
ADVANCES IN COMPLEX SYSTEMS	1
AMERICAN JOURNAL OF BIOLOGICAL ANTHROPOLOGY	1
AMERICAN JOURNAL OF EPIDEMIOLOGY	1
APPLIED SCIENCES-BASEL	1
BIOINFORMATICS ADVANCES	1
BMC BIOINFORMATICS	1
CHAOS	1
COMPLEX NETWORKS AND THEIR APPLICATIONS XI, COMPLEX NETWORKS 2022, VOL 1	1
COMPLEXITY	1
DATA MINING AND KNOWLEDGE DISCOVERY	1
DREAMING	1
ECOLOGY AND SOCIETY	1

Showing 1-20 rows of 53 total (use export in the relevant section to download the full table)

Journal Citation Indicator (JCI)

0.66

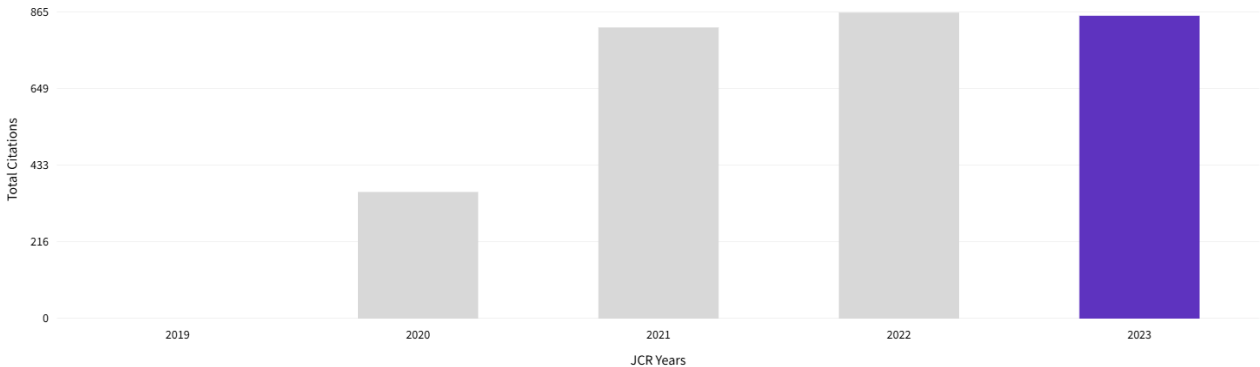
The Journal Citation Indicator (JCI) is the average Category Normalized Citation Impact (CNCI) of citable items (articles & reviews) published by a journal over a recent three year period. The average JCI in a category is 1. Journals with a JCI of 1.5 have 50% more citation impact than the average in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



Total Citations

856

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

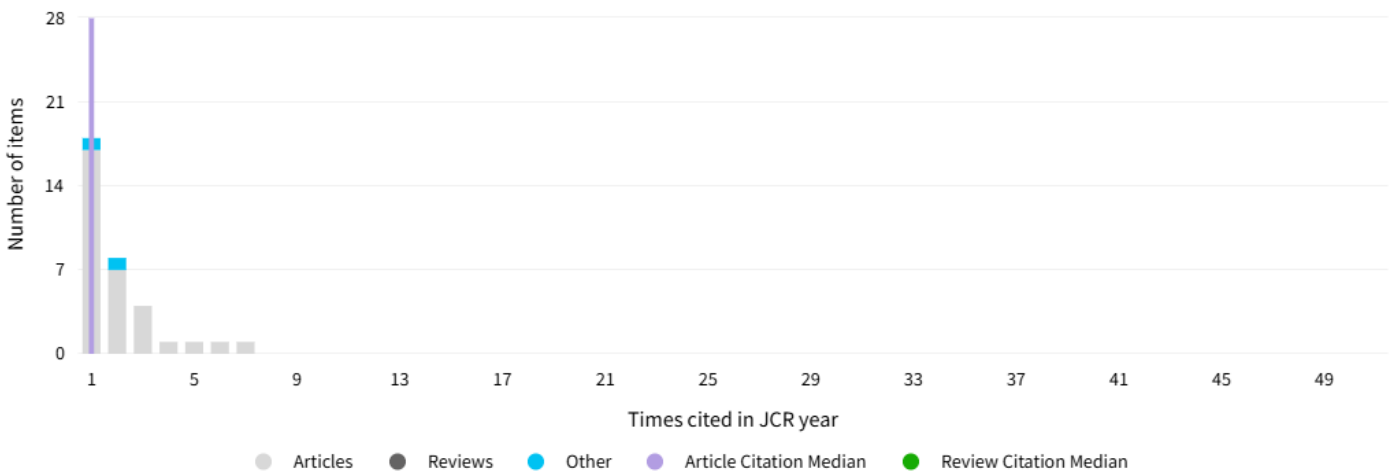
1

REVIEW CITATION MEDIAN

N/A

UNLINKED CITATIONS

7



0 times cited

ARTICLES

23

REVIEWS

0

OTHER

3

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

99

% OF CITABLE OA

44.44%

CITABLE

GOLD OPEN ACCESS

44 / 41.12%

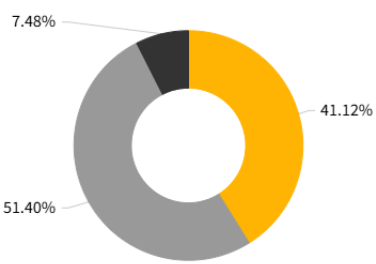
SUBSCRIPTION OR BRONZE

55 / 51.40%

NON-CITABLE

 OTHER (NON-CITABLE ITEMS)

8 / 7.48%



Citations*

TOTAL CITABLE

66

% OF CITABLE OA

53.03%

CITABLE

GOLD OPEN ACCESS

35 / 42.17%

SUBSCRIPTION OR BRONZE

31 / 37.35%

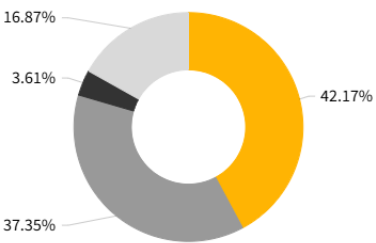
NON-CITABLE

 OTHER (NON-CITABLE ITEMS)

3 / 3.61%

 UNLINKED CITATIONS

14 / 16.87%



* Citations in 2023 to items published in (2021-2023)

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				
SOCIAL SCIENCES, INTERDISCIPLINARY				
93/267				
JCR YEAR	JIF RANK	QUART ILE	JIF PERCENTILE	
2023	93/267	Q2	65.4	<div><div></div></div>

CATEGORY				
SOCIAL SCIENCES, MATHEMATICAL METHODS				
36/67				
JCR YEAR	JIF RANK	QUART ILE	JIF PERCENTILE	
2023	36/67	Q3	47.0	<div><div></div></div>

CATEGORY

SOCIOLOGY

106/217

JCR YEAR	JIF RANK	QUART ILE	JIF PERCENTILE
2023	106/217	Q2	51.4 

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

SOCIAL SCIENCES, INTERDISCIPLINARY

110/267

JCR YEAR	JCI RANK	QUART ILE	JCI PERCENTILE	
2023	110/267	Q2	58.99	<div><div></div></div>
2022	99/265	Q2	62.83	<div><div></div></div>
2021	103/264	Q2	61.17	<div><div></div></div>
2020	85/255	Q2	66.86	<div><div></div></div>
2019	72/255	Q2	71.96	<div><div></div></div>
2018	59/251	Q1	76.69	<div><div></div></div>
2017	55/241	Q1	77.39	<div><div></div></div>

CATEGORY

SOCIAL SCIENCES, MATHEMATICAL METHODS

29/67

JCR YEAR	JCI RANK	QUART ILE	JCI PERCENTILE	
2023	29/67	Q2	57.46	<div><div></div></div>
2022	26/65	Q2	60.77	<div><div></div></div>
2021	30/65	Q2	54.62	<div><div></div></div>
2020	N/A	N/A	N/A	<div><div></div></div>
2019	N/A	N/A	N/A	<div><div></div></div>
2018	N/A	N/A	N/A	<div><div></div></div>
2017	N/A	N/A	N/A	<div><div></div></div>

CATEGORY

SOCIOLOGY

120/217

JCR YEAR	JCI RANK	QUART ILE	JCI PERCENTILE	
2023	120/217	Q3	44.93	<div><div></div></div>
2022	98/216	Q2	54.86	<div><div></div></div>
2021	100/211	Q2	52.84	<div><div></div></div>
2020	N/A	N/A	N/A	<div><div></div></div>
2019	N/A	N/A	N/A	<div><div></div></div>
2018	N/A	N/A	N/A	<div><div></div></div>
2017	N/A	N/A	N/A	<div><div></div></div>

Citation network

Cited Half-life

7.4 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

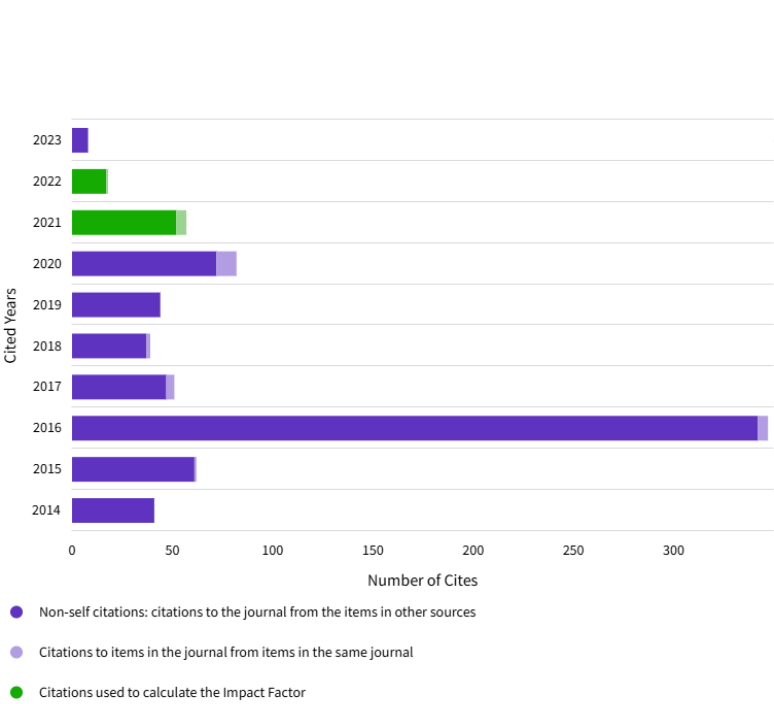
856

NON-SELF CITATIONS

825

SELF CITATIONS

31



# OF CITES FROM 2023	CUMULATIVE %	# OF CITING SOURCES
856 citations	100.00%	449 sources
8 citations	0.93%	7 sources
18 citations	3.04%	15 sources
57 citations	9.70%	40 sources
82 citations	19.28%	54 sources
44 citations	24.42%	40 sources
39 citations	28.97%	32 sources
51 citations	34.93%	40 sources
347 citations	75.47%	223 sources
62 citations	82.71%	55 sources
41 citations	87.50%	36 sources

Previous years:
107 citations

Citing titles in all years

Network Science

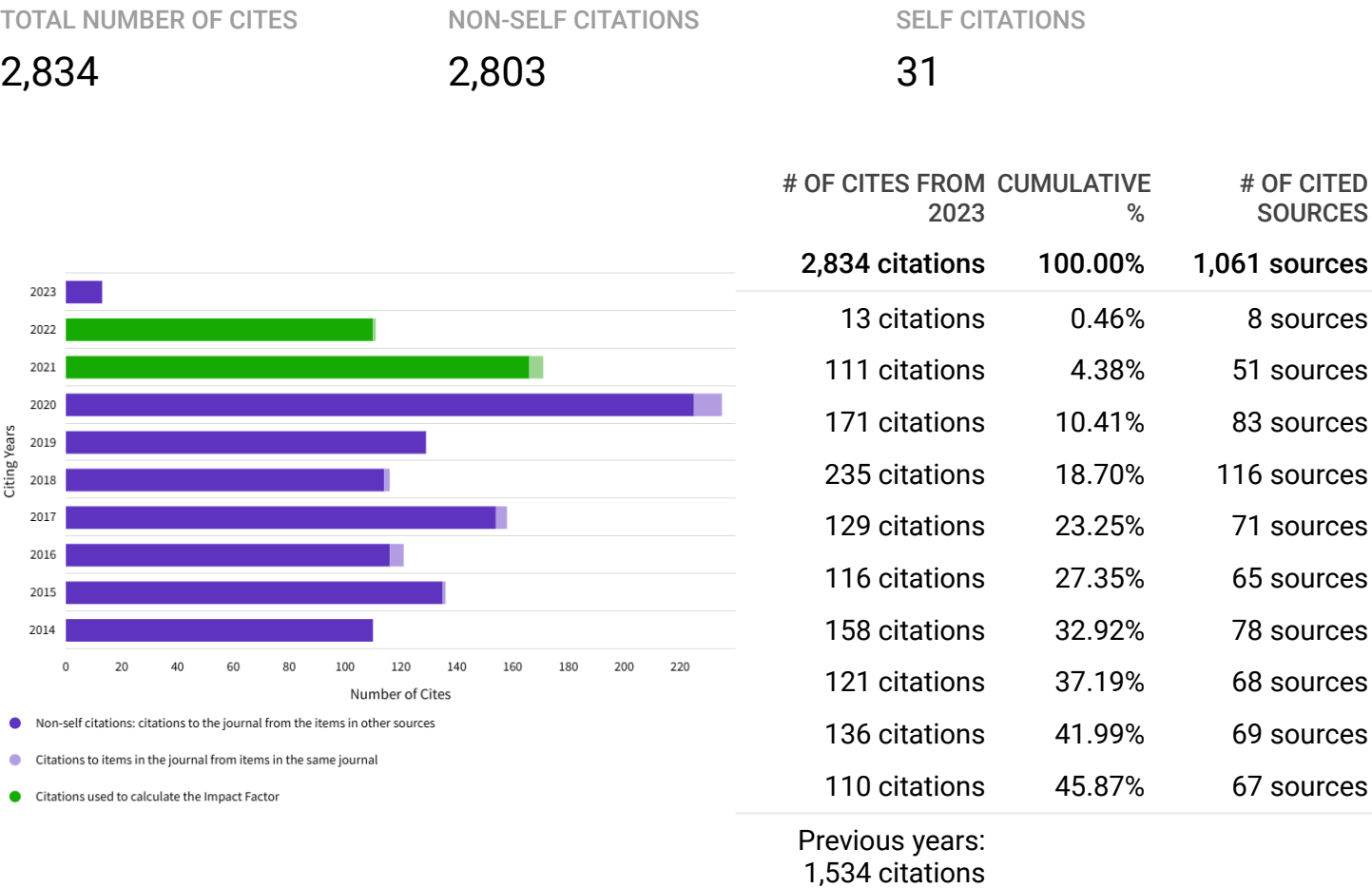
	SOURCE NAME	COUNT
	All Others	328
1	SOCIAL NETWORKS	34
2	Network Science	31
3	Scientific Reports	25
4	PLoS One	18
5	Applied Network Science	17
6	JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES A-STATISTICS IN SOCIETY	15
7	IEEE Access	14
8	STUD COMPUT INTELL	14
9	CHAOS SOLITONS & FRACTALS	13
10	PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS	13
11	Entropy	12
12	Journal of Complex Networks	11
13	Social Network Analysis and Mining	10
14	CHAOS	9
15	Nature Communications	9
16	PHYSICAL REVIEW E	8
17	IEEE Transactions on Network Science and Engineering	7
18	Applied Sciences-Basel	6
19	Sustainability	6
20	Humanities & Social Sciences Communications	5

Showing 1 - 20 rows of 121 total (use export in the relevant section to download the full table)

Citing Half-life

11.1 years

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



	# OF CITES FROM 2023	CUMULATIVE %	# OF CITED SOURCES
	2,834 citations	100.00%	1,061 sources
2023	13 citations	0.46%	8 sources
2022	111 citations	4.38%	51 sources
2021	171 citations	10.41%	83 sources
2020	235 citations	18.70%	116 sources
2019	129 citations	23.25%	71 sources
2018	116 citations	27.35%	65 sources
2017	158 citations	32.92%	78 sources
2016	121 citations	37.19%	68 sources
2015	136 citations	41.99%	69 sources
2014	110 citations	45.87%	67 sources

Previous years:
1,534 citations

Number of Cites

Citing Years

- Non-self citations: citations to the journal from the items in other sources
- Citations to items in the journal from items in the same journal
- Citations used to calculate the Impact Factor

Cited titles in all years

Network Science

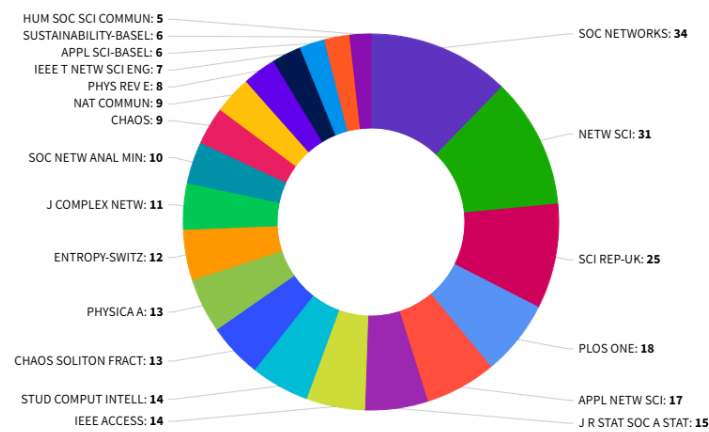
	SOURCE NAME	COUNT
	All Others	597
1	SOCIAL NETWORKS	127
2	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	51
3	AMERICAN JOURNAL OF SOCIOLOGY	50
4	SCIENCE	50
5	JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION	44
6	PLoS One	42
7	Sociological Methodology	37
8	PHYSICAL REVIEW E	35
9	SCIENTOMETRICS	34
10	AMERICAN SOCIOLOGICAL REVIEW	33
11	Network Science	31
12	Annual Review of Sociology	29
13	JOURNAL OF MARRIAGE AND FAMILY	28
14	JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL METHODOLOGY	26
15	ARXIV	23
16	SOCIAL FORCES	22
17	ANNALS OF STATISTICS	20
18	BIOMETRIKA	20
19	JOURNAL OF MATHEMATICAL SOCIOLOGY	18
20	JOURNAL OF QUANTITATIVE CRIMINOLOGY	18

Showing 1 - 20 rows of 464 total (use export in the relevant section to download the full table)

Journal Citation Relationships

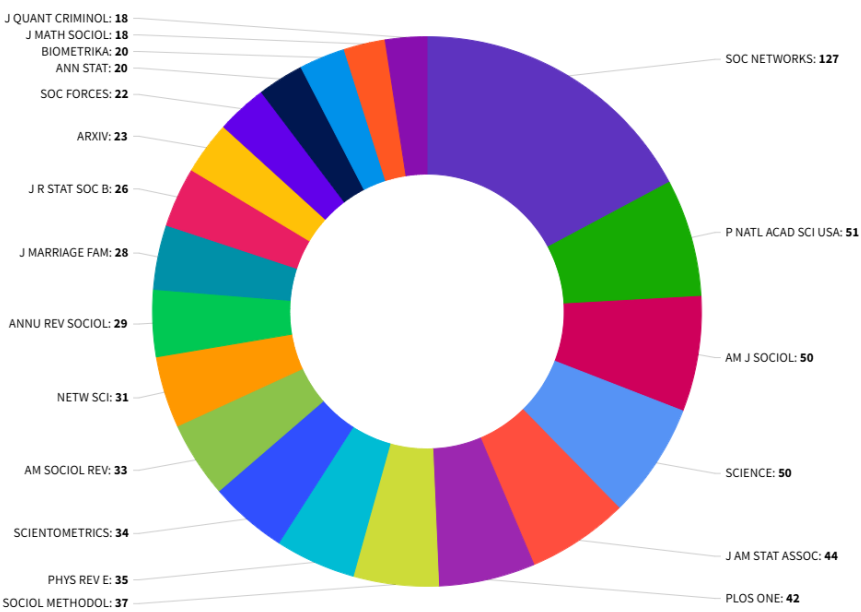
Cited Data

Top 20 journals citing NETW SCI by number of citations



Citing Data

Top 20 journals cited by NETW SCI 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](#)

44 total citable items

	ARTICLES	REVIEWS	COMBINED (C)	OTHER DOCUMENT TYPES (O)	PERCENTAGE
NUMBER IN JCR YEAR 2023 (A)	44	0	44	3	94%
NUMBER OF REFERENCES (B)	2,696	0	2,696	138	95%
RATIO (B/A)	61.3	N/A	61.3	46.0	

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

54.6

SOCIAL SCIENCES, MATHEMATICAL METHODS

47.0

SOCIAL SCIENCES, INTERDISCIPLINARY

65.4

SOCIOLOGY

51.4

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	UNIVERSITY OF CALIFORNIA SYSTEM	12	<div></div>
2	SWISS FEDERAL INSTITUTES OF TECHNOLOGY DOMAIN	7	<div></div>
3	NEW YORK UNIVERSITY	6	<div></div>
-	UNIVERSITY OF GRONINGEN	6	<div></div>
5	MICHIGAN STATE UNIVERSITY	4	<div></div>
-	TILBURG UNIVERSITY	4	<div></div>
-	UNIVERSITY OF COLORADO SYSTEM	4	<div></div>
-	UNIVERSITY OF MUNICH	4	<div></div>

Showing 1 - 8 rows of 145 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	USA	59	<div></div>
2	GERMANY (FED REP GER)	14	<div></div>
3	NETHERLANDS	13	<div></div>
4	ENGLAND	10	<div></div>
-	SWITZERLAND	10	<div></div>
6	ITALY	9	<div></div>
7	POLAND	7	<div></div>
8	CANADA	6	<div></div>

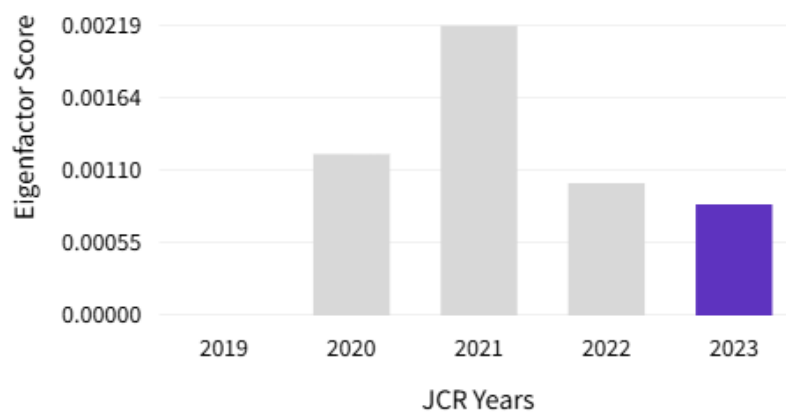
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Additional metrics

Eigenfactor score

0.00084

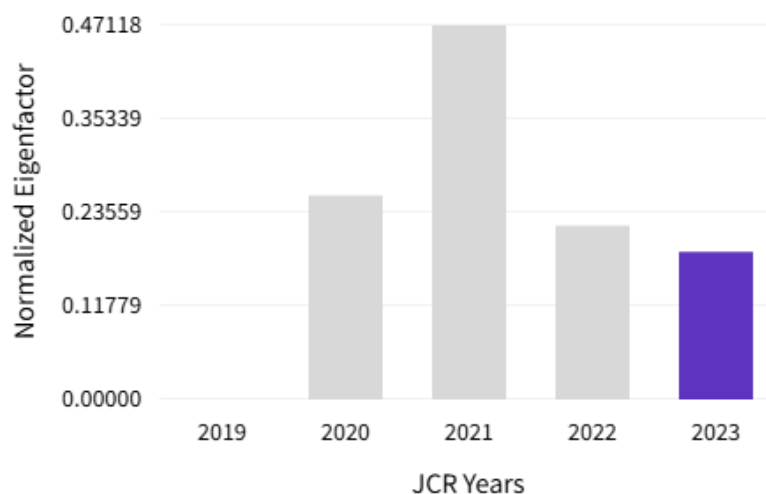
The Eigenfactor Score is a reflection of the density of the network of citations around the journal using 5 years of cited content as cited by the Current Year. It considers both the number of citations and the source of those citations, so that highly cited sources will influence the network more than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



Normalized Eigenfactor

0.18598

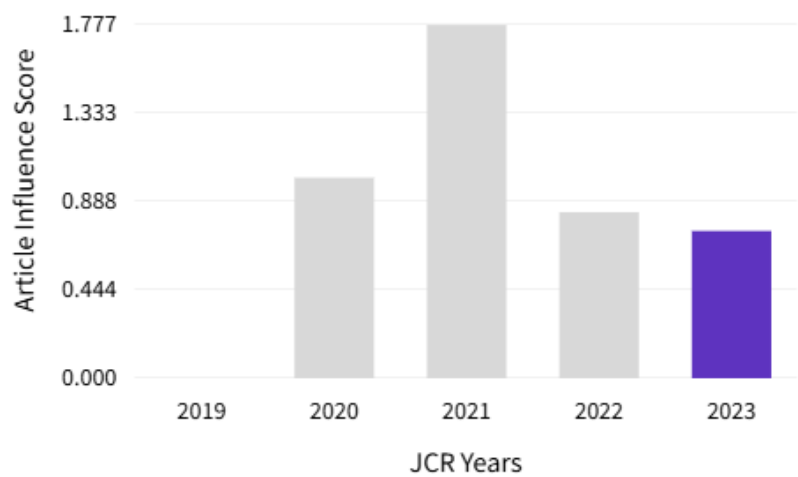
The Normalized Eigenfactor Score is the Eigenfactor score normalized, by rescaling the total number of journals in the JCR each year, so that the average journal has a score of 1. Journals can then be compared and influence measured by their score relative to 1. [Learn more](#)



Article influence score

0.741

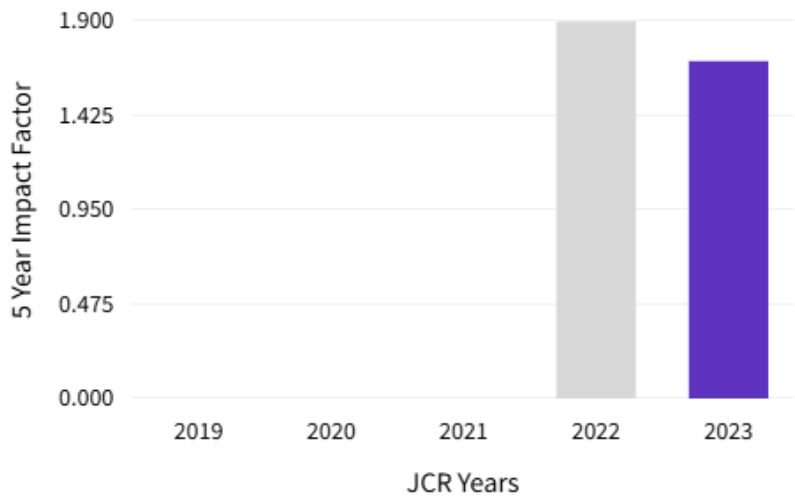
The Article Influence Score normalizes the Eigenfactor Score according to the cumulative size of the cited journal across the prior five years. The mean Article Influence Score for each article is 1.00. A score greater than 1.00 indicates that each article in the journal has above-average influence.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



5 year Impact Factor

1.7

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.



5 year Impact Factor calculation

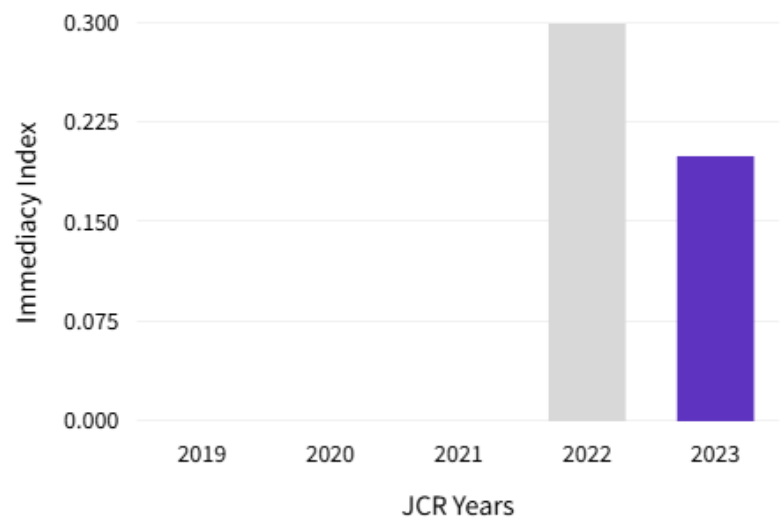
Citations in 2023 to items published in [2018-2022] (240)		240		
<hr/>				
Number of citable items in [2018-2022] (138)	=	138	=	1.7

Immediacy Index

0.2

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

Cites in 2023 to items published in [2023]

=

8

44

=

0.2