

2023 Journal Performance Data for: INTERNATIONAL JOURNAL OF IMPACT ENGINEERING

ISSN	EISSN
0734-743X	1879-3509
JCR ABBREVIATION	ISO ABBREVIATION
INT J IMPACT ENG	Int. J. Impact Eng.

Journal Information

EDITION	CATEGORY	
Science Citation Index Expanded (SCIE)	MECHANICS ENGINEERING, MECHANICAL	
LANGUAGES	REGION	1ST ELECTRONIC JCR YEAR
English	ENGLAND	1997

Publisher Information

PUBLISHER	ADDRESS	PUBLICATION FREQUENCY
PERGAMON-ELSEVIER SCIENCE LTD	THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD OX5 1GB, ENGLAND	12 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](#)

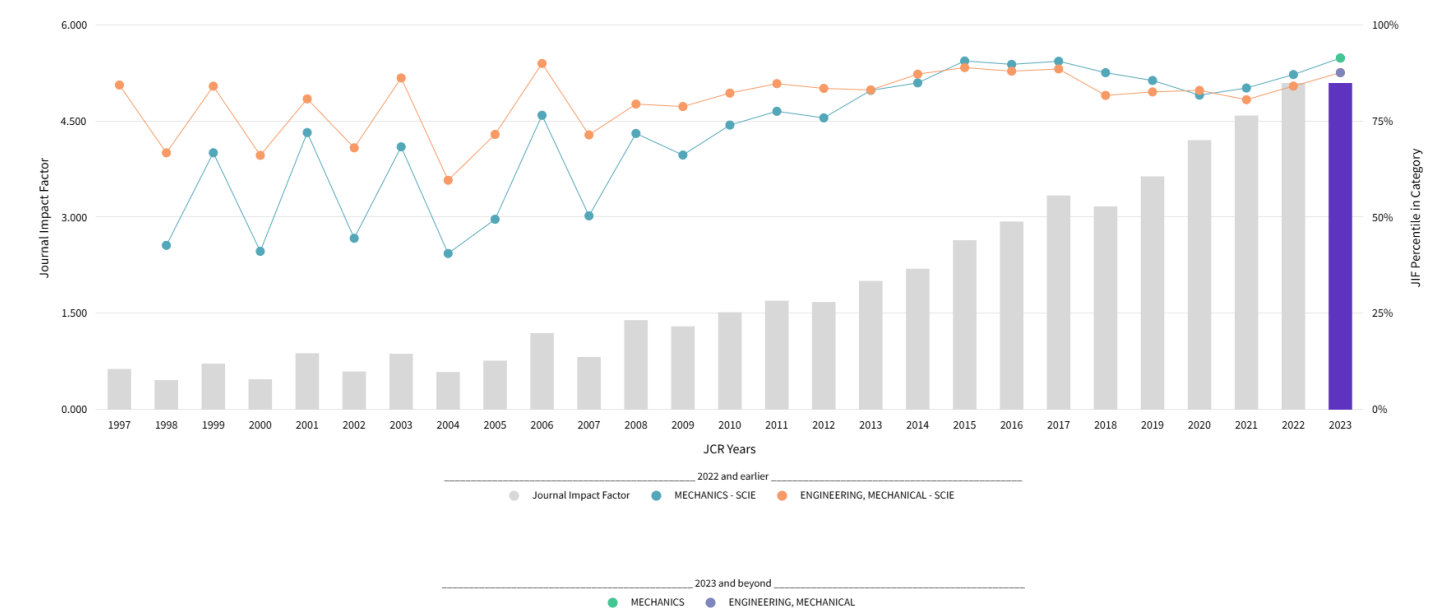
2023 JOURNAL IMPACT FACTOR

5.1

2023 JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS

4.5

Journal Impact Factor Trend 2023



Journal Impact Factor is calculated using the following metrics

Citations in 2023 to items published in 2021 (1,226) - 2022 (1,377)		2,603		
	=		=	5.1
Number of citable items in 2021 (229) + 2022 (279)		508		

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

Citations in 2023 to items published in 2021 (1,226) + 2022 (1,377) - Self Citations in 2023 to items published in 2021 (158) + 2022 (178)		2,603 - 336		
	=		=	4.5
Number of citable items in 2021 (229) + 2022 (279)		508		

Journal Impact Factor Contributing Items

Citable Items (508)

TITLE	CITATION COUNT
<p>Analytical and numerical studies on impact force profile of RC beam under drop weight impact Authors: Li, Huawei;Chen, Wensu;Pham, Thong M.;Hao, Hong Volume: 147 Accession number: WOS:000589914900001 Document Type: Article</p>	36
<p>Static and dynamic properties of a perforated metallic auxetic metamaterial with tunable stiffness and energy absorption Authors: Zhang, Yi;Ren, Xin;Han, Dong;Cheng, Xian;Jiang, Wei;Zhang, Xue Gang;Zhang, Xiang Yu;Xie, Yi Min Volume: 164 Accession number: WOS:000789565200001 Document Type: Article</p>	30
<p>Implementation of Johnson-Holmquist-Beissel model in four-dimensional lattice spring model and its application in projectile penetration Authors: Ma, Jianjun;Chen, Junjie;Guan, Junwei;Lin, Yuexiang;Chen, Wanxiang;Huang, Linchong Volume: 170 Accession number: WOS:000864076000001 Document Type: Article</p>	27
<p>High-velocity impact resistance of doubly curved sandwich panels with re-entrant honeycomb and foam core Authors: Usta, Fatih;Turkmen, Halit S.;Scarpa, Fabrizio Volume: 165 Accession number: WOS:000789644500001 Document Type: Article</p>	24
<p>Numerical study on blast-induced fragmentation in deep rock mass Authors: Li, Xudong;Liu, Kewei;Yang, Jiakai;Song, Ruitao Volume: 170 Accession number: WOS:000852496800002 Document Type: Article</p>	24

Showing 1-5 rows of 508 total (use export in the relevant section to download the full table)

Journal Impact Factor Contributing Items

Citing Sources (393)

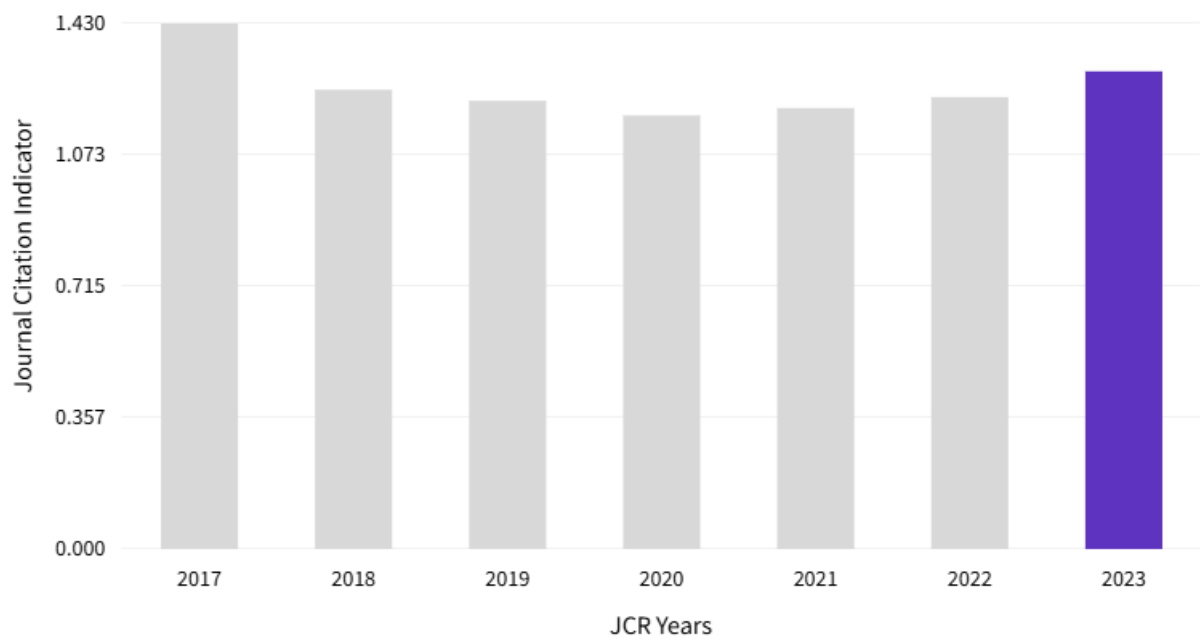
SOURCE NAME	COUNT
INTERNATIONAL JOURNAL OF IMPACT ENGINEERING	336
THIN-WALLED STRUCTURES	158
ENGINEERING STRUCTURES	105
COMPOSITE STRUCTURES	94
INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES	77
STRUCTURES	77
MATERIALS	70
CONSTRUCTION AND BUILDING MATERIALS	66
APPLIED SCIENCES-BASEL	48
JOURNAL OF BUILDING ENGINEERING	48
ENGINEERING FRACTURE MECHANICS	47
OCEAN ENGINEERING	42
SUSTAINABILITY	38
DEFENCE TECHNOLOGY	36
THEORETICAL AND APPLIED FRACTURE MECHANICS	35
ENGINEERING FAILURE ANALYSIS	29
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T	29
POLYMERS	28
BUILDINGS	27
INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES	27

Showing 1-20 rows of 393 total (use export in the relevant section to download the full table)

Journal Citation Indicator (JCI)

1.3

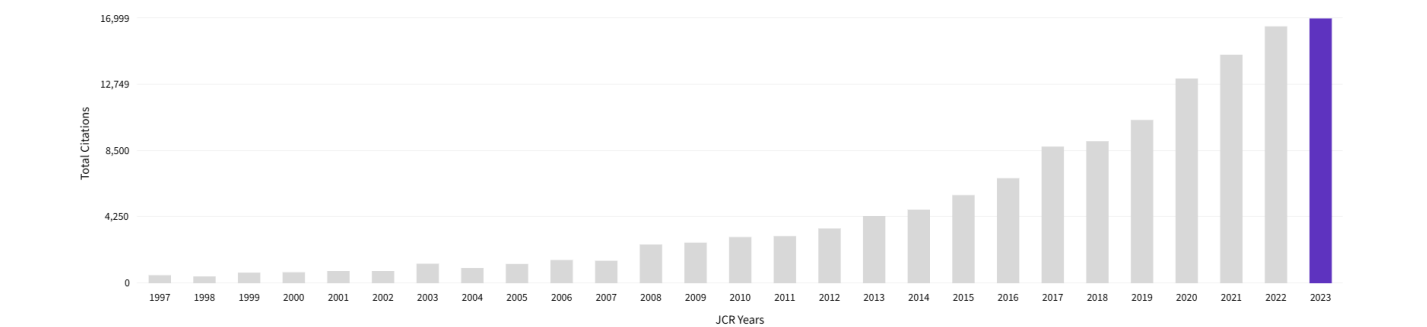
The Journal Citation Indicator (JCI) is the average Category Normalized Citation Impact (CNCI) of citable items (articles & reviews) published by a journal over a recent three year period. The average JCI in a category is 1. Journals with a JCI of 1.5 have 50% more citation impact than the average in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



Total Citations

16,999

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

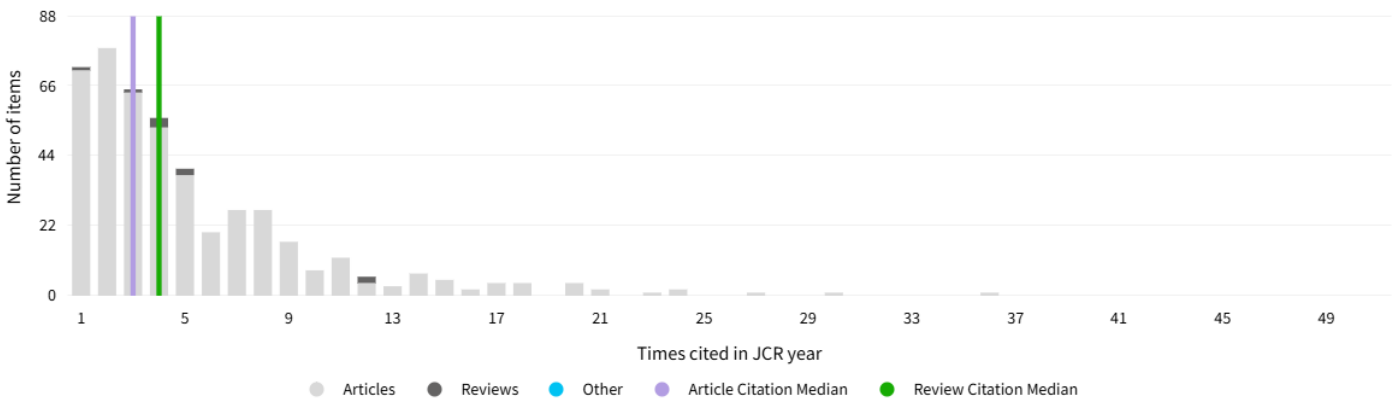
3

REVIEW CITATION MEDIAN

4

UNLINKED CITATIONS

124



0 times cited

ARTICLES

43

REVIEWS

0

OTHER

8

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

790

% OF CITABLE OA

9.24%

CITABLE

GOLD OPEN ACCESS

73 / 9.10%

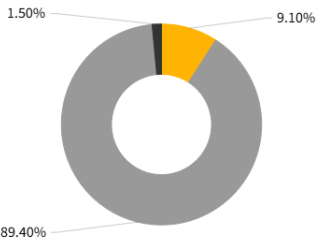
SUBSCRIPTION OR BRONZE

717 / 89.40%

NON-CITABLE

OTHER (NON-CITABLE ITEMS)

12 / 1.50%



Citations*

TOTAL CITABLE

2,725

% OF CITABLE OA

7.01%

CITABLE

GOLD OPEN ACCESS

191 / 6.61%

SUBSCRIPTION OR BRONZE

2,534 / 87.68%

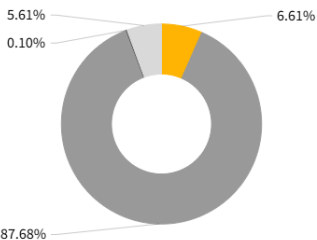
NON-CITABLE

OTHER (NON-CITABLE ITEMS)

3 / 0.10%

UNLINKED CITATIONS

162 / 5.61%



* 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

ENGINEERING, MECHANICAL

23/183

JCR YEAR	JIF RANK	QUART ILE	JIF PERCENTILE	
2023	23/183	Q1	87.7	<div></div>

Rank by JIF before 2023 for ENGINEERING, MECHANICAL

EDITION

Science Citation Index Expanded (SCIE)

JCR YEAR	JIF RANK	QUART ILE	JIF PERCENTILE	
2022	22/136	Q1	84.2	<div></div>
2021	27/137	Q1	80.66	<div></div>
2020	23/133	Q1	83.08	<div></div>
2019	23/130	Q1	82.69	<div></div>
2018	24/129	Q1	81.78	<div></div>
2017	15/128	Q1	88.67	<div></div>
2016	16/130	Q1	88.08	<div></div>
2015	15/132	Q1	89.02	<div></div>
2014	17/130	Q1	87.31	<div></div>
2013	22/128	Q1	83.20	<div></div>
2012	21/125	Q1	83.60	<div></div>
2011	19/122	Q1	84.84	<div></div>
2010	22/122	Q1	82.38	<div></div>
2009	25/116	Q1	78.88	<div></div>
2008	22/105	Q1	79.52	<div></div>
2007	31/107	Q2	71.50	<div></div>
2006	11/106	Q1	90.09	<div></div>
2005	30/104	Q2	71.63	<div></div>
2004	42/103	Q2	59.71	<div></div>
2003	15/106	Q1	86.32	<div></div>
2002	33/102	Q2	68.14	<div></div>
2001	20/102	Q1	80.88	<div></div>
2000	35/102	Q2	66.18	<div></div>
1999	16/98	Q1	84.18	<div></div>
1998	32/95	Q2	66.84	<div></div>

CATEGORY

MECHANICS

15/170

JCR YEAR	JIF RANK	QUART ILE	JIF PERCENTILE	
2023	15/170	Q1	91.5	<div></div>

Rank by JIF before 2023 for MECHANICS

EDITION

Science Citation Index Expanded (SCIE)

JCR YEAR	JIF RANK	QUART ILE	JIF PERCENTILE	
2022	18/137	Q1	87.2	<div></div>
2021	23/138	Q1	83.70	<div></div>
2020	25/135	Q1	81.85	<div></div>
2019	20/136	Q1	85.66	<div></div>
2018	17/134	Q1	87.69	<div></div>
2017	13/134	Q1	90.67	<div></div>
2016	14/133	Q1	89.85	<div></div>
2015	13/135	Q1	90.74	<div></div>
2014	21/137	Q1	85.04	<div></div>
2013	24/139	Q1	83.09	<div></div>
2012	33/135	Q1	75.93	<div></div>
2011	30/132	Q1	77.65	<div></div>
2010	35/133	Q2	74.06	<div></div>
2009	42/123	Q2	66.26	<div></div>
2008	32/112	Q2	71.88	<div></div>
2007	56/112	Q2	50.45	<div></div>
2006	26/109	Q1	76.61	<div></div>
2005	56/110	Q3	49.55	<div></div>
2004	64/107	Q3	40.65	<div></div>
2003	34/106	Q2	68.40	<div></div>
2002	57/102	Q3	44.61	<div></div>
2001	27/95	Q2	72.11	<div></div>
2000	54/91	Q3	41.21	<div></div>
1999	30/89	Q2	66.85	<div></div>
1998	48/83	Q3	42.77	<div></div>
1997	N/A	N/A	N/A	<div></div>

JCR YEAR	JIF RANK	QUART ILE	JIF PERCENTILE	
1997	14/87	Q1	84.48	<div></div>

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

ENGINEERING, MECHANICAL

18/183

JCR YEAR	JCI RANK	QUART ILE	JCI PERCENTILE	
2023	18/183	Q1	90.44	<div><div></div></div>
2022	22/179	Q1	87.99	<div><div></div></div>
2021	20/177	Q1	88.98	<div><div></div></div>
2020	18/166	Q1	89.46	<div><div></div></div>
2019	19/166	Q1	88.86	<div><div></div></div>
2018	16/163	Q1	90.49	<div><div></div></div>
2017	12/159	Q1	92.77	<div><div></div></div>

CATEGORY

MECHANICS

19/170

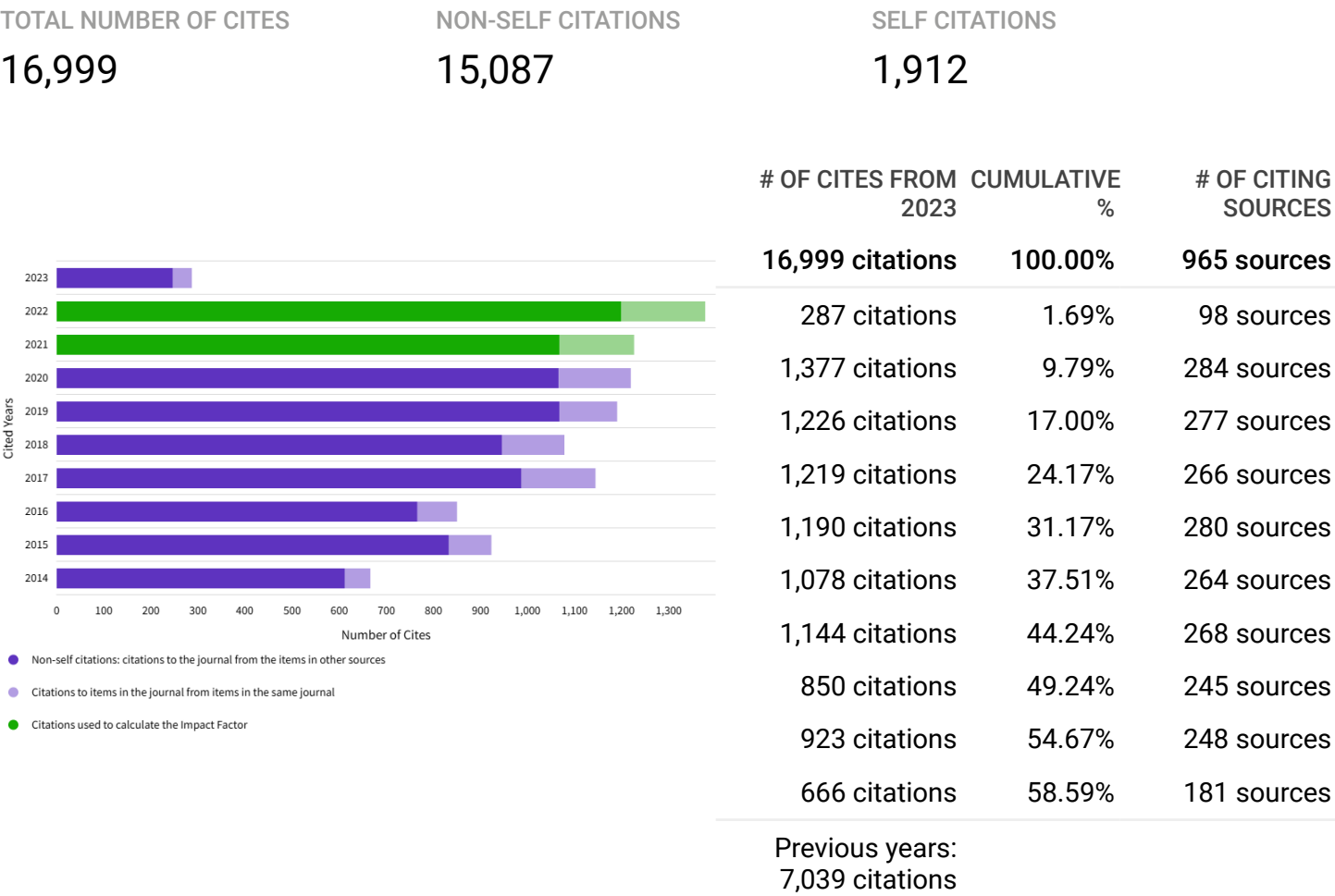
JCR YEAR	JCI RANK	QUART ILE	JCI PERCENTILE	
2023	19/170	Q1	89.12	<div><div></div></div>
2022	21/164	Q1	87.50	<div><div></div></div>
2021	23/163	Q1	86.20	<div><div></div></div>
2020	24/156	Q1	84.94	<div><div></div></div>
2019	18/156	Q1	88.78	<div><div></div></div>
2018	18/154	Q1	88.64	<div><div></div></div>
2017	11/154	Q1	93.18	<div><div></div></div>

Citation network

Cited Half-life

8.1 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.



Citing titles in all years

INTERNATIONAL JOURNAL OF IMPACT ENGINEERING

	SOURCE NAME	COUNT
	All Others	324
1	INTERNATIONAL JOURNAL OF IMPACT ENGINEERING	1,912
2	THIN-WALLED STRUCTURES	958
3	Materials	524
4	COMPOSITE STRUCTURES	508
5	Defence Technology	464
6	Structures	443
7	ENGINEERING STRUCTURES	423
8	Construction and Building Materials	390
9	INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES	325
10	Ocean Engineering	294
11	Applied Sciences-Basel	285
12	Journal of Building Engineering	253
13	Journal of Materials Research and Technology-JMR&T	250
14	ENGINEERING FRACTURE MECHANICS	219
15	MECHANICS OF ADVANCED MATERIALS AND STRUCTURES	216
16	Engineering Failure Analysis	187
17	Buildings	179
18	INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES	168
19	Polymers	168
20	Materials Today Communications	145

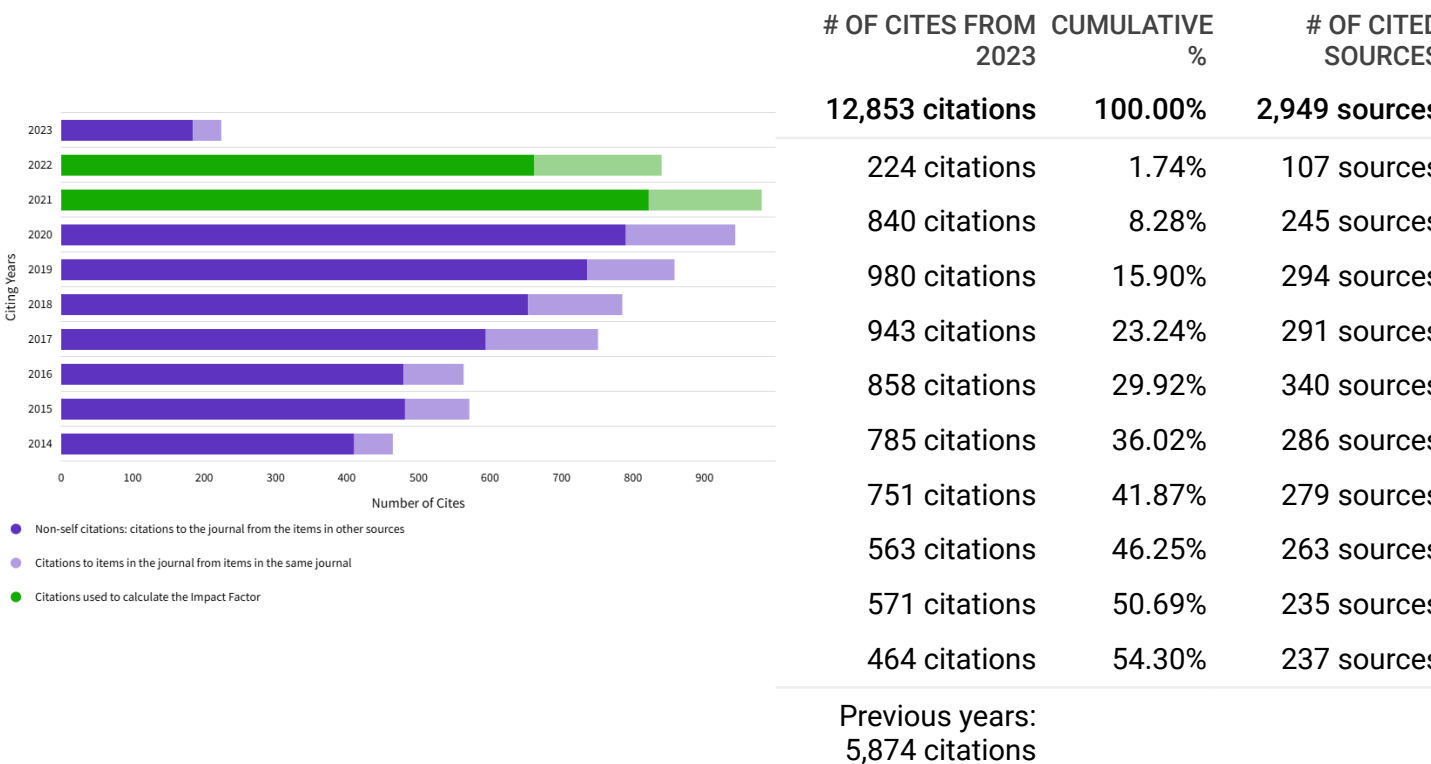
Showing 1 - 20 rows of 641 total (use export in the relevant section to download the full table)

Citing Half-life

8.8 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	NON-SELF CITATIONS	SELF CITATIONS
12,853	10,941	1,912



Cited titles in all years

INTERNATIONAL JOURNAL OF IMPACT ENGINEERING

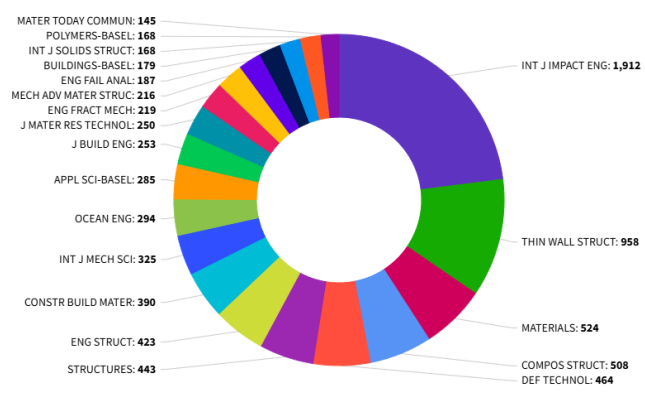
	SOURCE NAME	COUNT
	All Others	2,190
1	INTERNATIONAL JOURNAL OF IMPACT ENGINEERING	1,912
2	COMPOSITE STRUCTURES	514
3	THIN-WALLED STRUCTURES	269
4	COMPOSITES PART B-ENGINEERING	245
5	ENGINEERING STRUCTURES	223
6	INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES	223
7	INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES	222
8	MATERIALS & DESIGN	182
9	Construction and Building Materials	147
10	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	147
11	ENGINEERING FRACTURE MECHANICS	144
12	JOURNAL OF APPLIED PHYSICS	139
13	JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS	135
14	EXPERIMENTAL MECHANICS	123
15	INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES	121
16	COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING	114
17	JOURNAL OF APPLIED MECHANICS-TRANSACTIONS OF THE ASME	114
18	MECHANICS OF MATERIALS	106
19	COMPOSITES SCIENCE AND TECHNOLOGY	102
20	INTERNATIONAL JOURNAL OF PLASTICITY	68

Showing 1 - 20 rows of 759 total (use export in the relevant section to download the full table)

Journal Citation Relationships

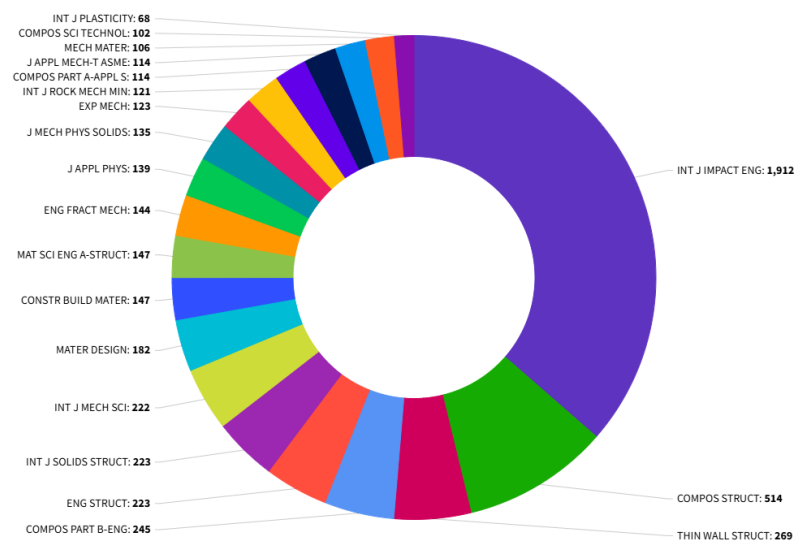
Cited Data

Top 20 journals citing INT J IMPACT ENG by number of citations



Citing Data

Top 20 journals cited by INT J IMPACT ENG 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](#)

282 total citable items

	ARTICLES	REVIEWS	COMBINED (C)	OTHER DOCUMENT TYPES (O)	PERCENTAGE
NUMBER IN JCR YEAR 2023 (A)	278	4	282	4	99%
NUMBER OF REFERENCES (B)	11,900	913	12,813	40	100%
RATIO (B/A)	42.8	228.3	45.4	10.0	

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

89.6

MECHANICS

91.5

ENGINEERING, MECHANICAL

87.7

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	BEIJING INSTITUTE OF TECHNOLOGY	84	<div></div>
2	ARMY ENGINEERING UNIVERSITY OF PLA	38	<div></div>
3	INDIAN INSTITUTE OF TECHNOLOGY SYSTEM (IIT SYSTEM)	36	<div></div>
4	NORTHWESTERN POLYTECHNICAL UNIVERSITY	33	<div></div>
5	NANJING UNIVERSITY OF SCIENCE & TECHNOLOGY	31	<div></div>
6	CHINESE ACADEMY OF SCIENCES	29	<div></div>
7	TONGJI UNIVERSITY	26	<div></div>
8	BEIJING UNIVERSITY OF TECHNOLOGY	22	<div></div>

Showing 1 - 8 rows of 614 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	CHINA MAINLAND	441	<div></div>
2	USA	98	<div></div>
3	AUSTRALIA	60	<div></div>
4	ENGLAND	56	<div></div>
5	INDIA	41	<div></div>
6	GERMANY (FED REP GER)	29	<div></div>
7	FRANCE	27	<div></div>
-	ISRAEL	27	<div></div>

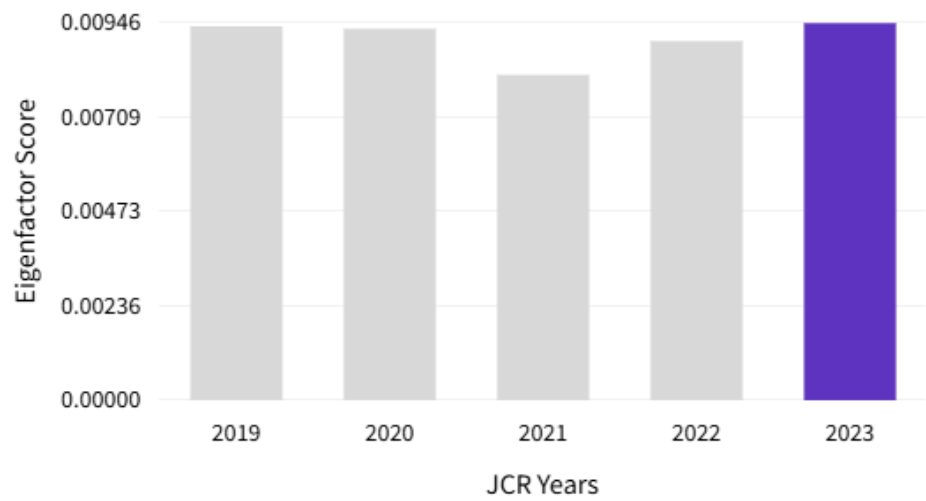
Showing 1 - 8 rows of 54 total (use export in the relevant section to download the full table)

Additional metrics

Eigenfactor score

0.00946

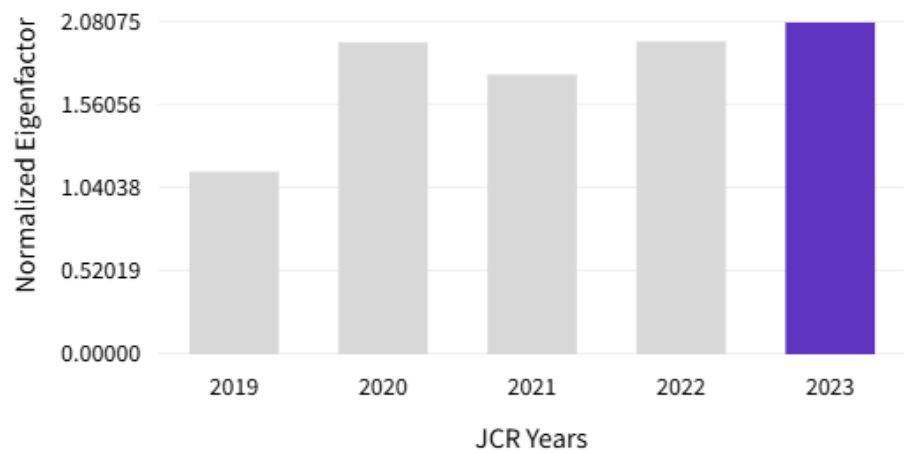
The Eigenfactor Score is a reflection of the density of the network of citations around the journal using 5 years of cited content as cited by the Current Year. It considers both the number of citations and the source of those citations, so that highly cited sources will influence the network more than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



Normalized Eigenfactor

2.08075

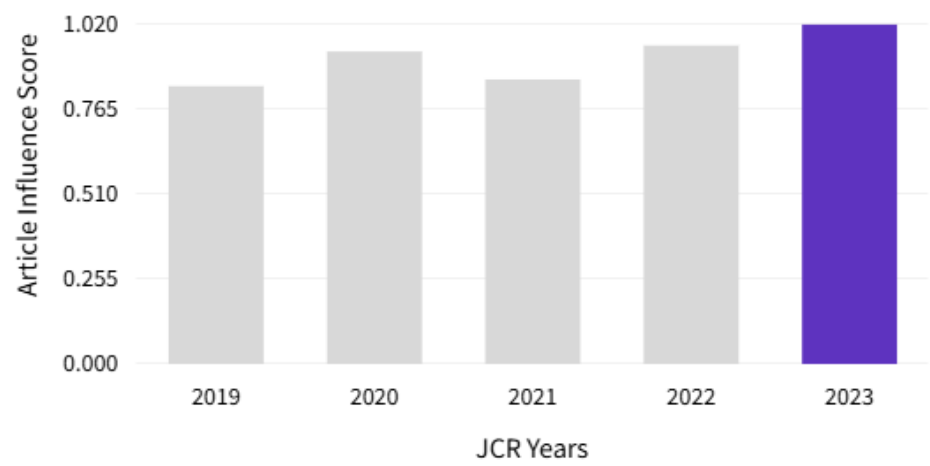
The Normalized Eigenfactor Score is the Eigenfactor score normalized, by rescaling the total number of journals in the JCR each year, so that the average journal has a score of 1. Journals can then be compared and influence measured by their score relative to 1. [Learn more](#)



Article influence score

1.020

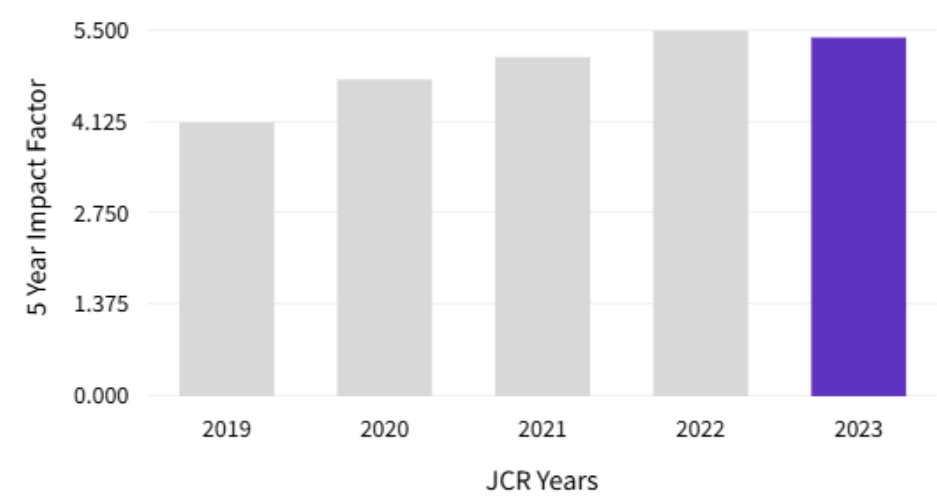
The Article Influence Score normalizes the Eigenfactor Score according to the cumulative size of the cited journal across the prior five years. The mean Article Influence Score for each article is 1.00. A score greater than 1.00 indicates that each article in the journal has above-average influence.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



5 year Impact Factor

5.4

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

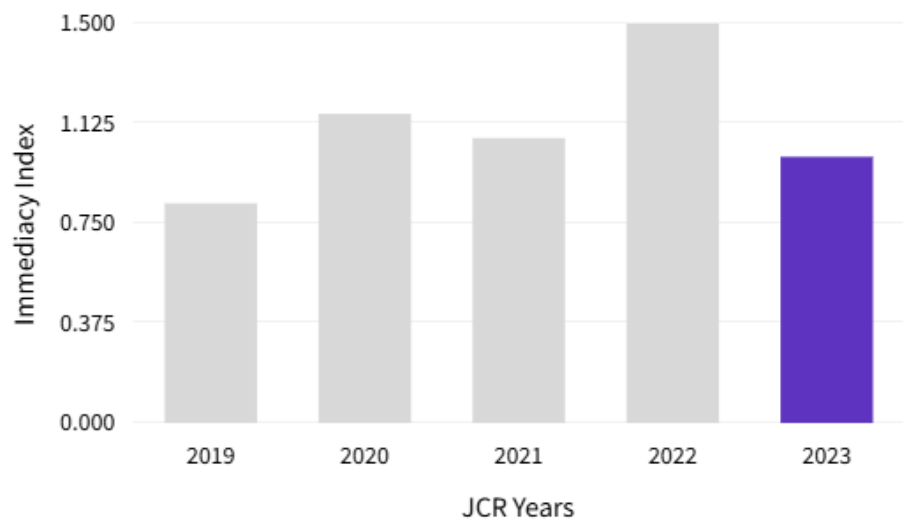
Citations in 2023 to items published in [2018-2022] (6,090)				
	=	6,090	=	5.4
Number of citable items in [2018-2022] (1,122)		1,122		

Immediacy Index

1.0

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]				
		287		
<hr/>				
Number of citable items published in [2023]	=	282	=	1.0