2023 Journal Performance Data for: COMPOSITE STRUCTURES

ISSN
0263-8223

EISSN
1879-1085

JCR ABBREVIATION
COMPOS STRUCT

ISO ABBREVIATION
Compos. Struct.

Journal Information

EDITION
Science Citation Index Expanded (SCIE)

CATEGORY
MECHANICS
MATERIALS SCIENCE, COMPOSITES

LANGUAGES
English

REGION
ENGLAND

1ST ELECTRONIC JCR YEAR
1997

Publisher Information

PUBLISHER
ELSEVIER SCI LTD

ADDRESS
125 London Wall, London EC2Y 5AS, ENGLAND

PUBLICATION FREQUENCY
24 issues/year

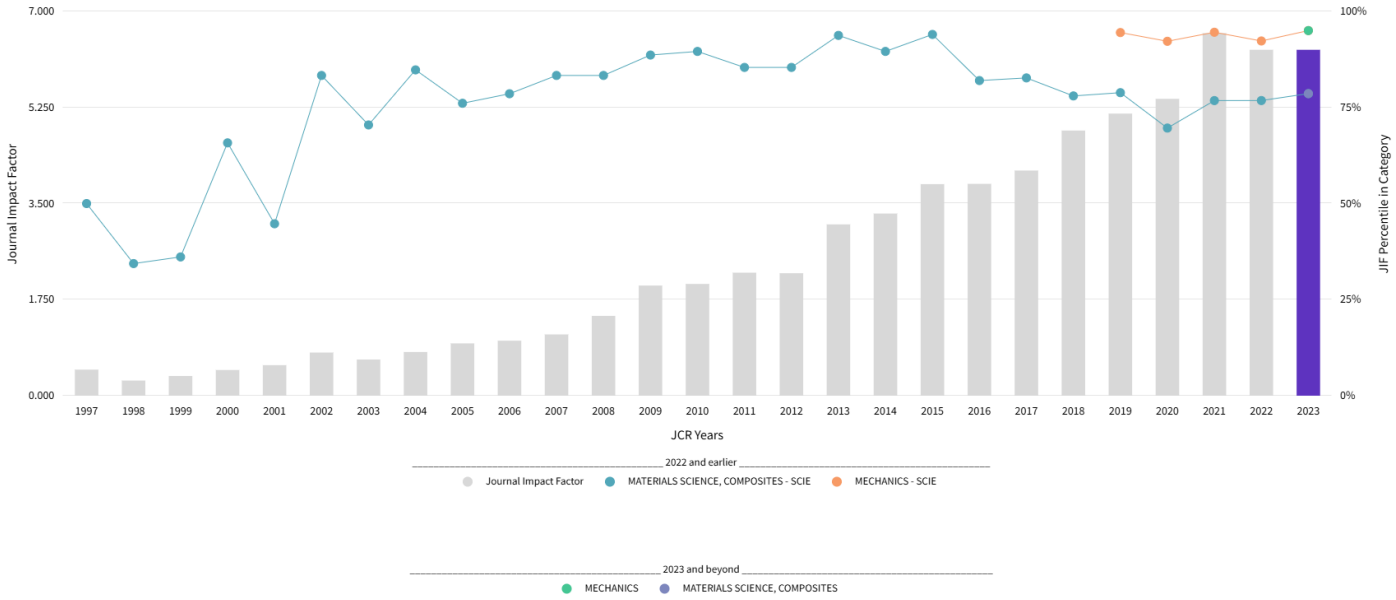
Journal's Performance

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	2023 JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS
6.3	5.7

Journal Impact Factor Trend 2023



Journal Impact Factor is calculated using the following metrics

Citations in 2023 to items published in 2021 (**12,685**) - 2022 (**6,803**)	=	**19,488**	=	**6.3**
Number of citable items in 2021 (**1,881**) + 2022 (**1,195**)		**3,076**		

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

Citations in 2023 to items published in 2021 (**12,685**) + 2022 (**6,803**) - Self Citations in 2023 to items published in 2021 (**1,192**) + 2022 (**782**)	=	**19,488 - 1,974**	=	**5.7**
Number of citable items in 2021 (**1,881**) + 2022 (**1,195**)		**3,076**		

Journal Impact Factor Contributing Items

Citable Items (3,076)

TITLE	CITATION COUNT
Polymer composite materials: A comprehensive review Authors: Hsissou, Rachid;Seghiri, Rajaa;Benzekri, Zakaria;Hilali, Miloudi;Rafik, Mohamed;Elharfi, Ahmed Volume: 262 Accession number: WOS:000632421300003 Document Type: Review	154
An improved Artificial Neural Network using Arithmetic Optimization Algorithm for damage assessment in FGM composite plates Authors: Khatir, Samir;Tiachacht, Samir;Cuong Le Thanh;Ghandourah, Emad;Mirjalili, Seyedali;Wahab, Magd Abdel Volume: 273 Accession number: WOS:000685080500002 Document Type: Article	73
Nonlinear forced vibration analysis of functionally graded non-uniform cylindrical microbeams applying the semi-analytical solution Authors: Xu, Wentao;Pan, Genji;Moradi, Zohre;Shafiei, Navvab Volume: 275 Accession number: WOS:000697438800013 Document Type: Article	67
State of the art in functionally graded materials Authors: Boggarapu, Vasavi;Gujjala, Raghavendra;Ojha, Shakuntla;Acharya, Sk;Babu, P. Venkateswara;Chowdary, Somaiah;Gara, Dheeraj Kumar Volume: 262 Accession number: WOS:000632421300001 Document Type: Review	59
Developments in polyester composite materials - An in-depth review on natural fibres and nano fillers Authors: Zaghloul, Mahmoud Yousry Mahmoud;Zaghloul, Moustafa Mahmoud Yousry;Zaghloul, Mai Mahmoud Yousry Volume: 278 Accession number: WOS:000707198800001 Document Type: Review	55

Showing 1-5 rows of 3,076 total (use export in the relevant section to download the full table)

Journal Impact Factor Contributing Items

Citing Sources (1,164)

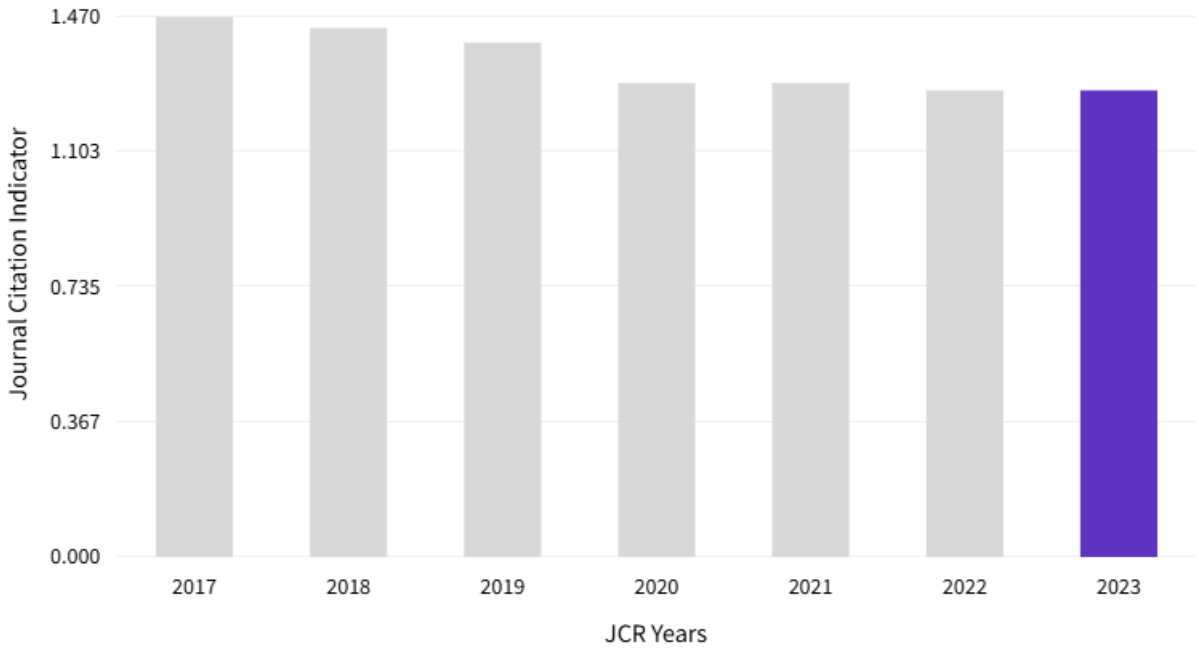
SOURCE NAME	COUNT
COMPOSITE STRUCTURES	1,974
THIN-WALLED STRUCTURES	819
ENGINEERING STRUCTURES	539
MECHANICS OF ADVANCED MATERIALS AND STRUCTURES	501
MATERIALS	500
CONSTRUCTION AND BUILDING MATERIALS	466
INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES	436
POLYMERS	420
POLYMER COMPOSITES	416
STRUCTURES	340
JOURNAL OF BUILDING ENGINEERING	220
COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING	215
COMPOSITES PART B-ENGINEERING	210
COMPOSITES SCIENCE AND TECHNOLOGY	201
MATERIALS TODAY COMMUNICATIONS	201
BUILDINGS	195
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T	194
ADVANCES IN NANO RESEARCH	171
APPLIED SCIENCES-BASEL	168
MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES	162

Showing 1-20 rows of 1,164 total (use export in the relevant section to download the full table)

Journal Citation Indicator (JCI)

1.27

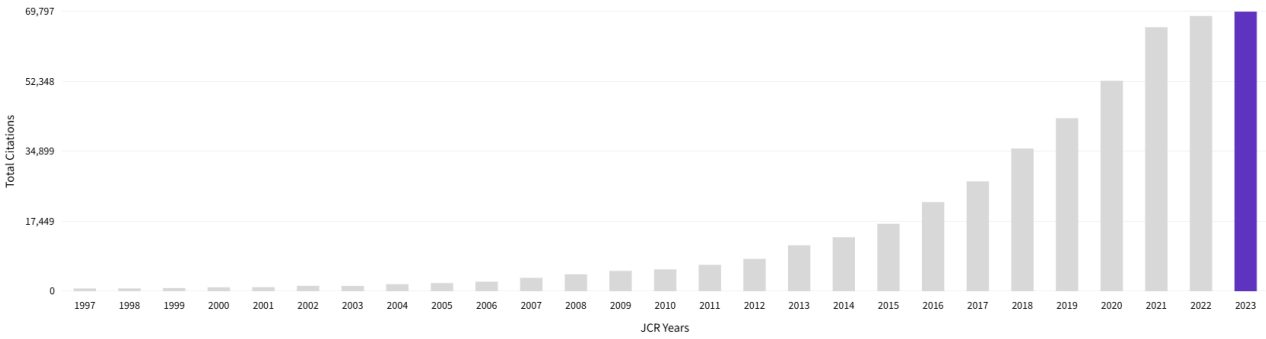
The Journal Citation Indicator (JCI) is the average Category Normalized Citation Impact (CNCI) of citable items (articles & reviews) published by a journal over a recent three year period. The average JCI in a category is 1. Journals with a JCI of 1.5 have 50% more citation impact than the average in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



Total Citations

69,797

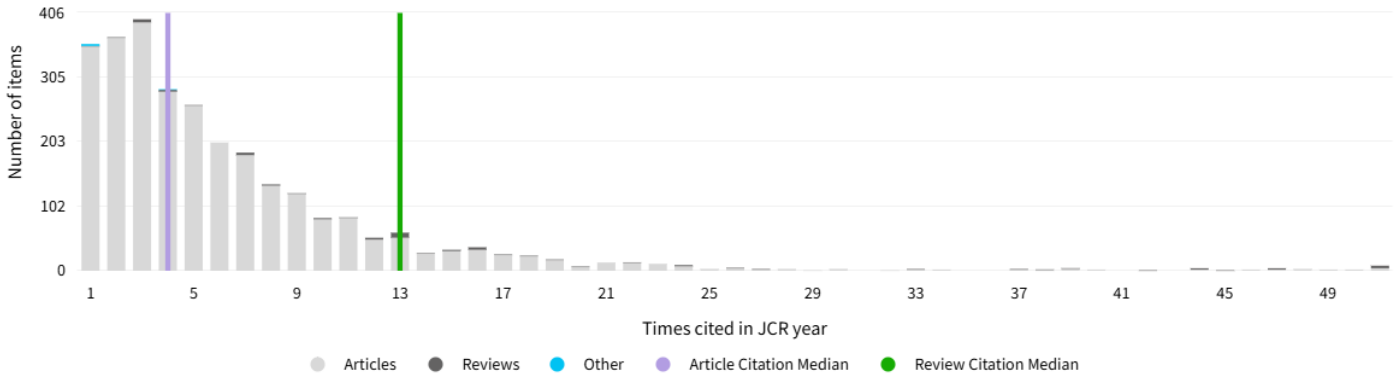
The total number of times that a journal has been cited by all journals included in the database in the JCR year. Citations to journals listed in JCR are compiled annually from the JCR years combined database, regardless of which JCR edition lists the journal.



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	REVIEW CITATION MEDIAN	UNLINKED CITATIONS
4	13	477



0 times cited

ARTICLES	REVIEWS	OTHER
203	3	22

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
4,075

% OF CITABLE OA
8.91%

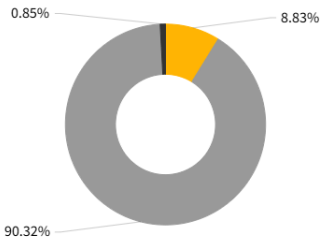
CITABLE

GOLD OPEN ACCESS
363 / 8.83%

SUBSCRIPTION OR BRONZE
3,712 / 90.32%

NON-CITABLE

OTHER (NON-CITABLE ITEMS)
35 / 0.85%



Citations*

TOTAL CITABLE
20,356

% OF CITABLE OA
6.33%

CITABLE

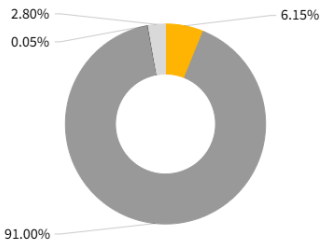
GOLD OPEN ACCESS
1,288 / 6.15%

SUBSCRIPTION OR BRONZE
19,068 / 91.00%

NON-CITABLE

OTHER (NON-CITABLE ITEMS)
11 / 0.05%

UNLINKED CITATIONS
586 / 2.80%



* 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

MATERIALS SCIENCE, COMPOSITES

8/35

JCR YEAR	JIF RANK	QUARTILE	JIF PERCENTILE
2023	8/35	Q1	78.6

CATEGORY

MECHANICS

9/170

JCR YEAR	JIF RANK	QUARTILE	JIF PERCENTILE
2023	9/170	Q1	95.0

Rank by JIF before 2023 for MATERIALS SCIENCE, COMPOSITES

EDITION

Science Citation Index Expanded (SCIE)

JCR YEAR	JIF RANK	QUARTILE	JIF PERCENTILE
2022	7/28	Q1	76.8
2021	7/28	Q1	76.79
2020	9/28	Q2	69.64
2019	6/26	Q1	78.85
2018	6/25	Q1	78.00
2017	5/26	Q1	82.69
2016	5/25	Q1	82.00
2015	2/25	Q1	94.00
2014	3/24	Q1	89.58
2013	2/24	Q1	93.75
2012	4/24	Q1	85.42
2011	4/24	Q1	85.42
2010	3/24	Q1	89.58
2009	3/22	Q1	88.64
2008	4/21	Q1	83.33
2007	4/21	Q1	83.33
2006	5/21	Q1	78.57
2005	6/23	Q2	76.09
2004	4/23	Q1	84.78
2003	7/22	Q2	70.45
2002	4/21	Q1	83.33
2001	11/19	Q3	44.74
2000	7/19	Q2	65.79
1999	12/18	Q3	36.11
1998	11/16	Q3	34.38

Rank by JIF before 2023 for MECHANICS

EDITION

Science Citation Index Expanded (SCIE)

JCR YEAR	JIF RANK	QUARTILE	JIF PERCENTILE
2022	11/137	Q1	92.3
2021	8/138	Q1	94.57
2020	11/135	Q1	92.22
2019	8/136	Q1	94.49
2018	N/A	N/A	N/A
2017	N/A	N/A	N/A
2016	N/A	N/A	N/A
2015	N/A	N/A	N/A
2014	N/A	N/A	N/A
2013	N/A	N/A	N/A
2012	N/A	N/A	N/A
2011	N/A	N/A	N/A
2010	N/A	N/A	N/A
2009	N/A	N/A	N/A
2008	N/A	N/A	N/A
2007	N/A	N/A	N/A
2006	N/A	N/A	N/A
2005	N/A	N/A	N/A
2004	N/A	N/A	N/A
2003	N/A	N/A	N/A
2002	N/A	N/A	N/A
2001	N/A	N/A	N/A
2000	N/A	N/A	N/A
1999	N/A	N/A	N/A
1998	N/A	N/A	N/A
1997	N/A	N/A	N/A

JCR YEAR	JIF RANK	QUARTILE	JIF PERCENTILE
1997	7/13	Q3	50.00

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

MATERIALS SCIENCE, COMPOSITES

7/35

JCR YEAR	JCI RANK	QUARTILE	JCI PERCENTILE
2023	7/35	Q1	81.43
2022	6/35	Q1	84.29
2021	6/34	Q1	83.82
2020	7/33	Q1	80.30
2019	5/33	Q1	86.36
2018	5/32	Q1	85.94
2017	5/31	Q1	85.48

CATEGORY

MECHANICS

20/170

JCR YEAR	JCI RANK	QUARTILE	JCI PERCENTILE
2023	20/170	Q1	88.53
2022	18/164	Q1	89.33
2021	19/163	Q1	88.65
2020	12/156	Q1	92.63
2019	11/156	Q1	93.27
2018	8/154	Q1	95.13
2017	9/154	Q1	94.48

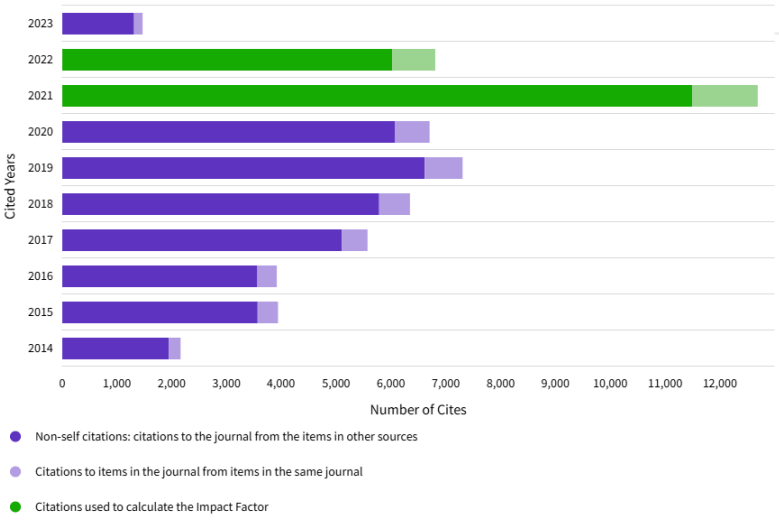
Citation network

Cited Half-life

5.0 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	NON-SELF CITATIONS	SELF CITATIONS
69,797	63,280	6,517



# OF CITES FROM 2023	CUMULATIVE %	# OF CITING SOURCES
69,797 citations	**100.00%**	**1,757 sources**
1,465 citations	2.10%	321 sources
6,803 citations	11.85%	732 sources
12,685 citations	30.02%	987 sources
6,700 citations	39.62%	735 sources
7,302 citations	50.08%	797 sources
6,342 citations	59.17%	731 sources
5,568 citations	67.14%	726 sources
3,913 citations	72.75%	613 sources
3,935 citations	78.39%	607 sources
2,158 citations	81.48%	424 sources
Previous years: 12,926 citations		

Citing titles in all years

COMPOSITE STRUCTURES

	SOURCE NAME	COUNT
	All Others	513
1	COMPOSITE STRUCTURES	6,517
2	THIN-WALLED STRUCTURES	2,703
3	MECHANICS OF ADVANCED MATERIALS AND STRUCTURES	2,054
4	Materials	1,899
5	ENGINEERING STRUCTURES	1,741
6	Construction and Building Materials	1,623
7	POLYMER COMPOSITES	1,563
8	Polymers	1,461
9	Structures	1,374
10	INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES	1,185
11	COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING	845
12	JOURNAL OF COMPOSITE MATERIALS	779
13	Journal of Building Engineering	770
14	ACTA MECHANICA	751
15	Buildings	722
16	MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES	722
17	COMPOSITES PART B-ENGINEERING	710
18	Materials Today Communications	705
19	COMPOSITES SCIENCE AND TECHNOLOGY	671
20	Journal of Materials Research and Technology-JMR&T	652

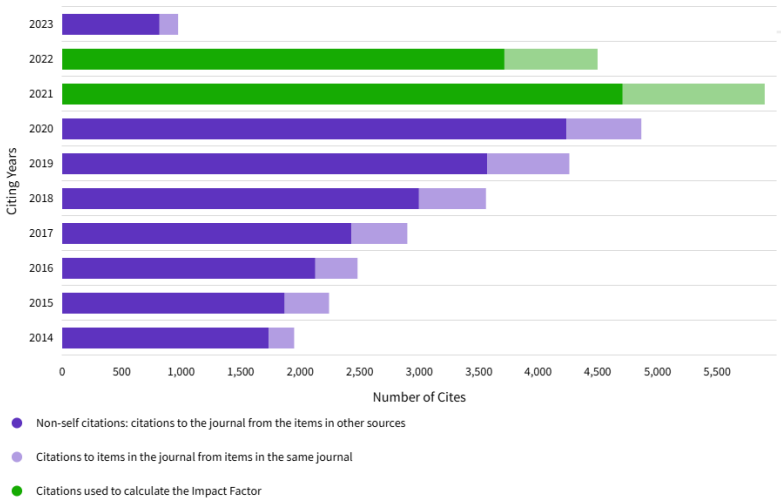
Showing 1 - 20 rows of 1244 total (use export in the relevant section to download the full table)

Citing Half-life

6.6 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	NON-SELF CITATIONS	SELF CITATIONS
51,404	44,887	6,517



# OF CITES FROM 2023	CUMULATIVE %	# OF CITED SOURCES
51,404 citations	**100.00%**	**6,544 sources**
973 citations	1.89%	303 sources
4,494 citations	10.64%	752 sources
5,897 citations	22.11%	814 sources
4,861 citations	31.56%	878 sources
4,257 citations	39.85%	804 sources
3,557 citations	46.76%	745 sources
2,897 citations	52.40%	703 sources
2,479 citations	57.22%	648 sources
2,240 citations	61.58%	610 sources
1,947 citations	65.37%	593 sources
Previous years: 17,802 citations		

Cited titles in all years

COMPOSITE STRUCTURES

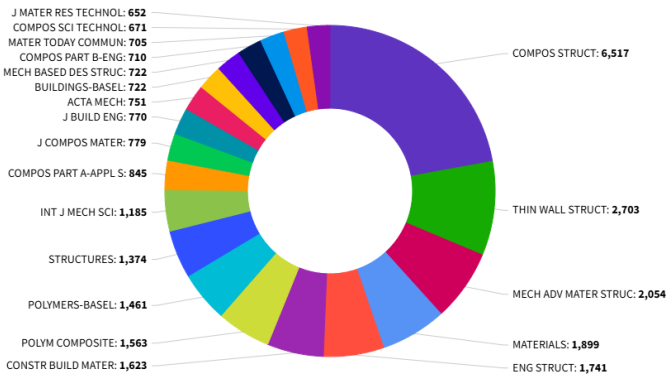
	SOURCE NAME	COUNT
	All Others	4,721
1	COMPOSITE STRUCTURES	6,517
2	COMPOSITES PART B-ENGINEERING	2,296
3	COMPOSITES SCIENCE AND TECHNOLOGY	1,587
4	COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING	1,458
5	Construction and Building Materials	1,149
6	THIN-WALLED STRUCTURES	974
7	MATERIALS & DESIGN	849
8	COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING	844
9	INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES	842
10	INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES	824
11	ENGINEERING STRUCTURES	742
12	JOURNAL OF COMPOSITE MATERIALS	692
13	INTERNATIONAL JOURNAL OF IMPACT ENGINEERING	508
14	JOURNAL OF SOUND AND VIBRATION	442
15	STRUCTURAL AND MULTIDISCIPLINARY OPTIMIZATION	416
16	JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS	404
17	ENGINEERING FRACTURE MECHANICS	400
18	INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING	375
19	COMPUTERS & STRUCTURES	355
20	JOURNAL OF COMPOSITES FOR CONSTRUCTION	352

Showing 1 - 20 rows of 1823 total (use export in the relevant section to download the full table)

Journal Citation Relationships

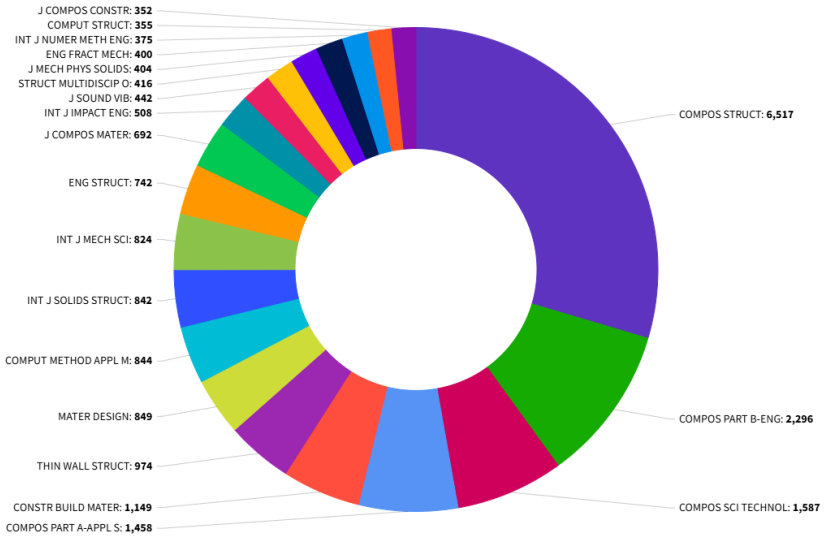
Cited Data

Top 20 journals citing COMPOS STRUCT by number of citations



Citing Data

Top 20 journals cited by COMPOS STRUCT 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

999 total citable items

	ARTICLES	REVIEWS	COMBINED (C)	OTHER DOCUMENT TYPES (O)	PERCENTAGE
NUMBER IN JCR YEAR 2023 (A)	975	24	999	9	99%
NUMBER OF REFERENCES (B)	47,978	3,280	51,258	146	100%
RATIO (B/A)	49.2	136.7	51.3	16.2	

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

86.8

MECHANICS

95.0

MATERIALS SCIENCE, COMPOSITES

78.6

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	NORTHWESTERN POLYTECHNICAL UNIVERSITY	135
2	HARBIN INSTITUTE OF TECHNOLOGY	133
3	NANJING UNIVERSITY OF AERONAUTICS & ASTRONAUTICS	121
4	INDIAN INSTITUTE OF TECHNOLOGY SYSTEM (IIT SYSTEM)	120
5	BEIHANG UNIVERSITY	100
6	DALIAN UNIVERSITY OF TECHNOLOGY	81
-	XI'AN JIAOTONG UNIVERSITY	81
8	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS)	80

Showing 1 - 8 rows of 2211 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	2035
2	USA	300
3	ITALY	260
4	ENGLAND	259
5	AUSTRALIA	225
6	IRAN	202
7	INDIA	196
8	SOUTH KOREA	162

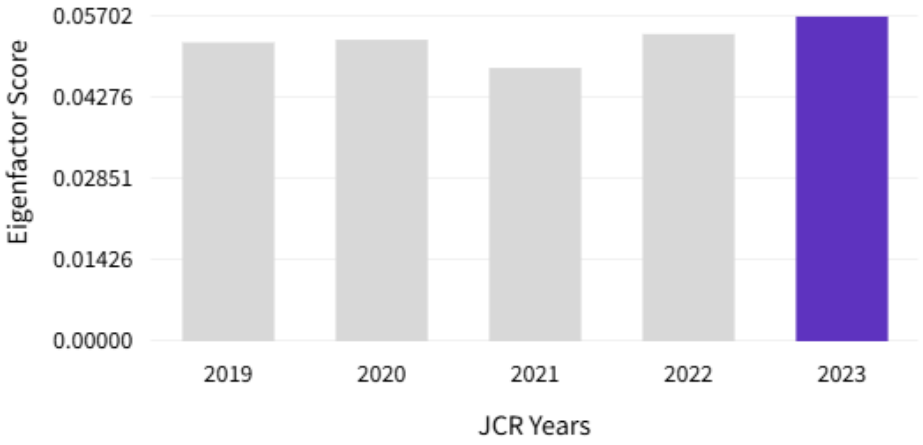
Showing 1 - 8 rows of 92 total (use export in the relevant section to download the full table)

Additional metrics

Eigenfactor score

0.05702

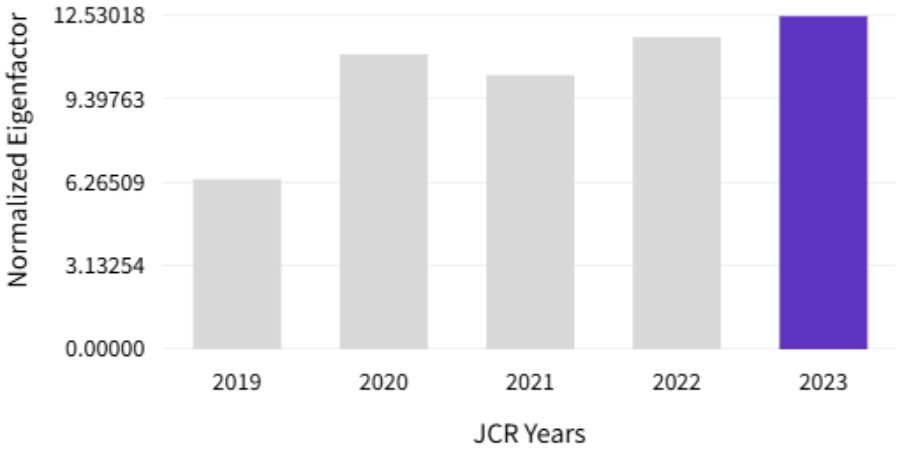
The Eigenfactor Score is a reflection of the density of the network of citations around the journal using 5 years of cited content as cited by the Current Year. It considers both the number of citations and the source of those citations, so that highly cited sources will influence the network more than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



Normalized Eigenfactor

12.53018

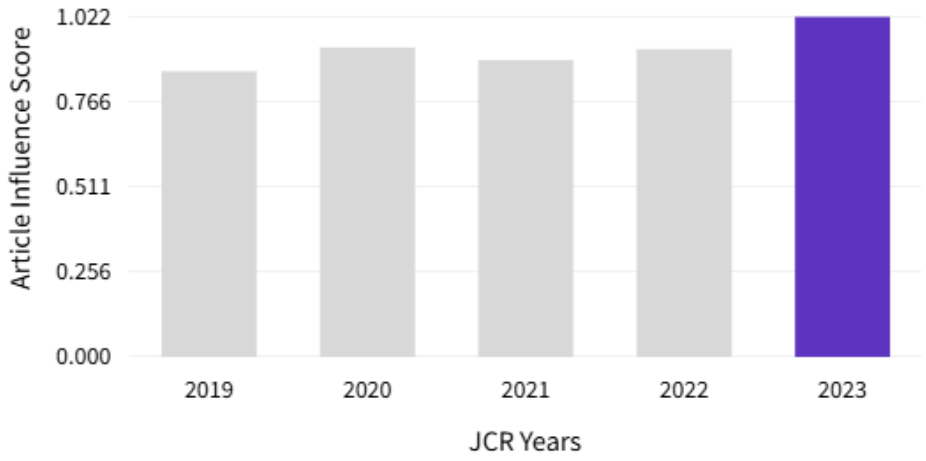
The Normalized Eigenfactor Score is the Eigenfactor score normalized, by rescaling the total number of journals in the JCR each year, so that the average journal has a score of 1. Journals can then be compared and influence measured by their score relative to 1. Learn more



Article influence score

1.022

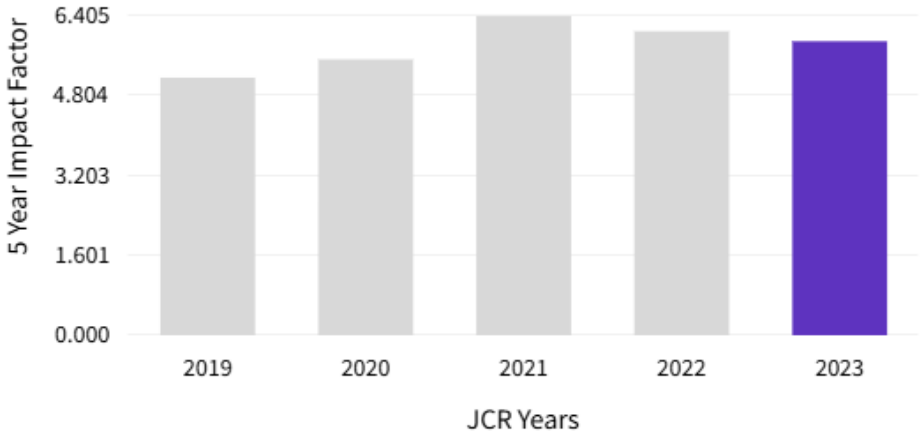
The Article Influence Score normalizes the Eigenfactor Score according to the cumulative size of the cited journal across the prior five years. The mean Article Influence Score for each article is 1.00. A score greater than 1.00 indicates that each article in the journal has above-average influence.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



5 year Impact Factor

5.9

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.



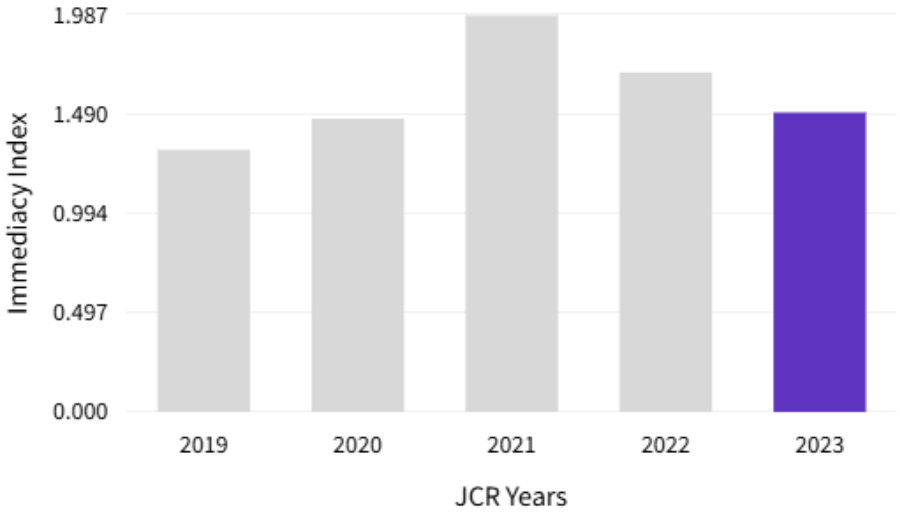
5 year Impact Factor calculation

$$\frac{\text{Citations in 2023 to items published in [2018-2022] (39,832)}}{\text{Number of citable items in [2018-2022] (6,744)}} = \frac{39{,}832}{6{,}744} = 5.9$$

Immediacy Index

1.5

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

$$\frac{\text{Cites in 2023 to items published in [2023]}}{\text{Number of citable items published in [2023]}} = \frac{1{,}465}{999} = 1.5$$

