2023 Journal Performance Data for: PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-JOURNAL OF MATERIALS-DESIGN AND APPLICATIONS

ISSN
1464-4207

EISSN
2041-3076

JCR ABBREVIATION
P I MECH ENG L-J MAT

ISO ABBREVIATION
Proc. Inst. Mech. Eng. Pt. L-J. Mater.-Design Appl.

Journal Information

EDITION
Science Citation Index Expanded (SCIE)

CATEGORY
MATERIALS SCIENCE, MULTIDISCIPLINARY

LANGUAGES
English

REGION
ENGLAND

1ST ELECTRONIC JCR YEAR
2001

Publisher Information

PUBLISHER
SAGE PUBLICATIONS LTD

ADDRESS
1 OLIVERS YARD, 55 CITY ROAD, LONDON EC1Y 1SP, ENGLAND

PUBLICATION FREQUENCY
12 issues/year

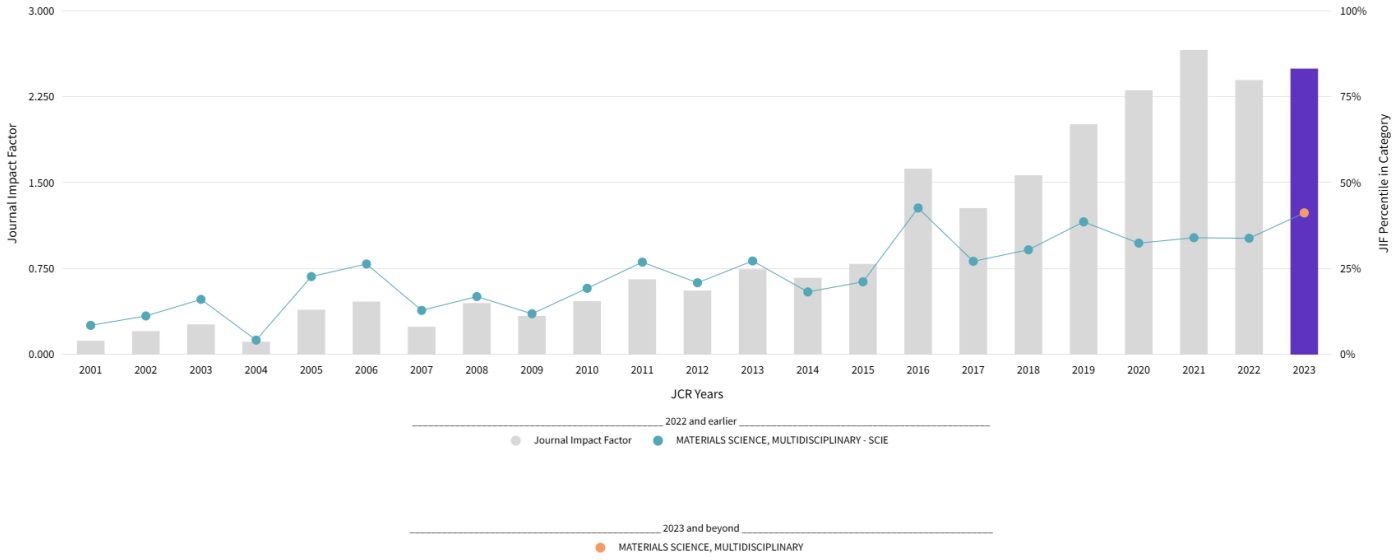
Journal's Performance

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	2023 JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS
2.5	2.3

Journal Impact Factor Trend 2023



Journal Impact Factor is calculated using the following metrics

Citations in 2023 to items published in 2021 (**702**) - 2022 (**402**)	=	**1,104**	=	**2.5**
Number of citable items in 2021 (**248**) + 2022 (**191**)		**439**		

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

Citations in 2023 to items published in 2021 (**702**) + 2022 (**402**) - Self Citations in 2023 to items published in 2021 (**48**) + 2022 (**47**)	=	**1,104 - 95**	=	**2.3**
Number of citable items in 2021 (**248**) + 2022 (**191**)		**439**		

Journal Impact Factor Contributing Items

Citable Items (439)

TITLE	CITATION COUNT
An innovation in finite element simulation via crystal plasticity assessment of grain morphology effect on sheet metal formability Authors: Habibi, Mostafa;Darabi, Roya;de Sa, Jose C.;Reis, Ana Volume: 235 Accession number: WOS:000676832800001 Document Type: Article	45
Study on the effect of the welding environment on the dynamic recrystallization phenomenon and residual stresses during the friction stir welding process of aluminum alloy Authors: Abbasi, Mahmoud;Abdollahzadeh, Amin;Bagheri, Behrouz;Ostovari Moghaddam, Ahmad;Sharifi, Farzaneh;Dadaei, Mostafa Volume: 235 Accession number: WOS:000669071800001 Document Type: Article	26
Metamaterials and their applications: An overview Authors: Valipour, Ali;Kargozarfard, Mohammad H.;Rakhshi, Mina;Yaghootian, Amin;Sedighi, Hamid M. Volume: 236 Accession number: WOS:000637124000001 Document Type: Article	22
On the role of input welding parameters on the microstructure and mechanical properties of Al6061-T6 alloy during the friction stir welding: Experimental and numerical investigation Authors: Bagheri, Behrouz;Sharifi, Farzaneh;Abbasi, Mahmoud;Abdollahzadeh, Amin Volume: 236 Accession number: WOS:000702438300001 Document Type: Article	21
Advances in simulation and experimental study on intermetallic formation and thermomechanical evolution of Al-Cu composite with Zn interlayer: Effect of spot pass and shoulder diameter during the pinless friction stir spot welding process Authors: Abdollahzadeh, Amin;Bagheri, Behrouz;Vaneghi, Alireza H.;Shamsipur, Ali;Mirsalehi, Seyyed E. Volume: 237 Accession number: WOS:000903935200001 Document Type: Article	17

Showing 1-5 rows of 439 total (use export in the relevant section to download the full table)

Journal Impact Factor Contributing Items

Citing Sources (318)

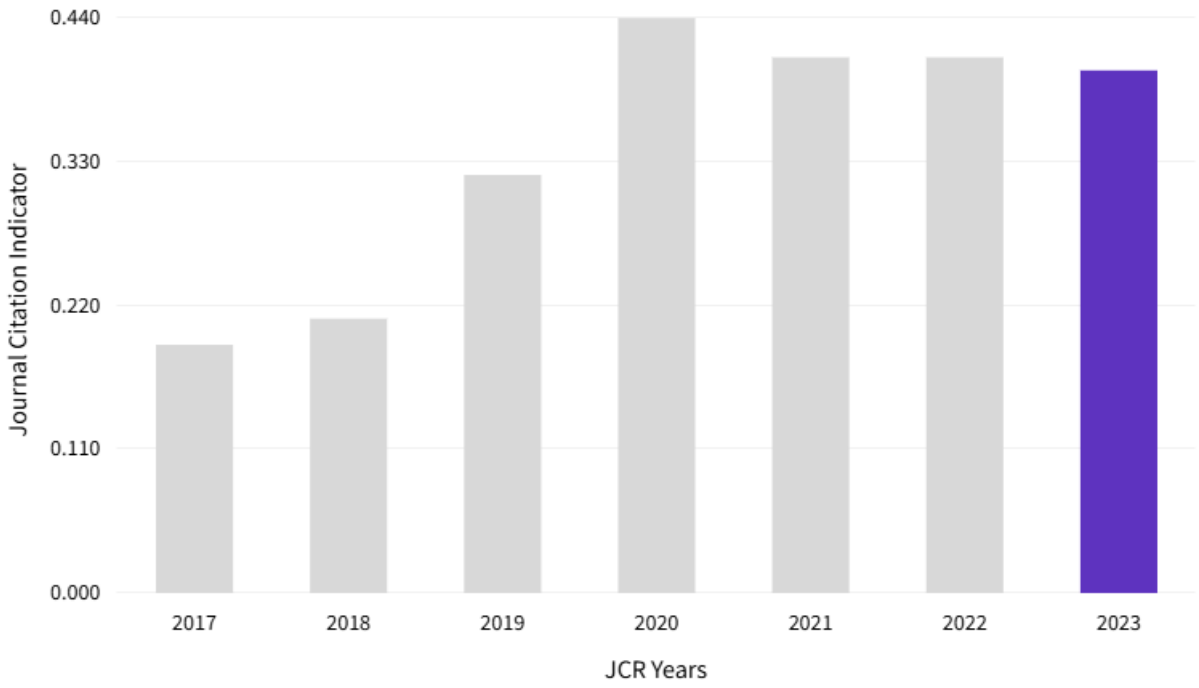
SOURCE NAME	COUNT
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-JOURNAL OF MATERIALS-DESIGN AND APPLICATIONS	95
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE	32
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY	30
MATERIALS	29
METALS	28
ADVANCES IN NANO RESEARCH	22
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T	21
THIN-WALLED STRUCTURES	21
POLYMER COMPOSITES	20
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART E-JOURNAL OF PROCESS MECHANICAL ENGINEERING	20
APPLIED SCIENCES-BASEL	18
MATERIALS TODAY COMMUNICATIONS	18
POLYMERS	16
COMPOSITE STRUCTURES	14
MECHANICS OF ADVANCED MATERIALS AND STRUCTURES	14
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE	14
JOURNAL OF ADVANCED JOINING PROCESSES	12
STEEL AND COMPOSITE STRUCTURES	12
ENGINEERING RESEARCH EXPRESS	11
JOURNAL OF COMPOSITES SCIENCE	11

Showing 1-20 rows of 318 total (use export in the relevant section to download the full table)

Journal Citation Indicator (JCI)

0.4

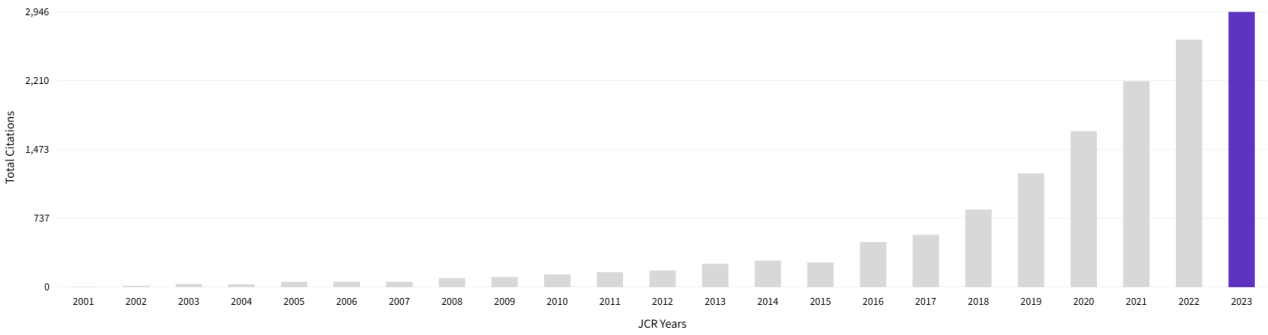
The Journal Citation Indicator (JCI) is the average Category Normalized Citation Impact (CNCI) of citable items (articles & reviews) published by a journal over a recent three year period. The average JCI in a category is 1. Journals with a JCI of 1.5 have 50% more citation impact than the average in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



Total Citations

2,946

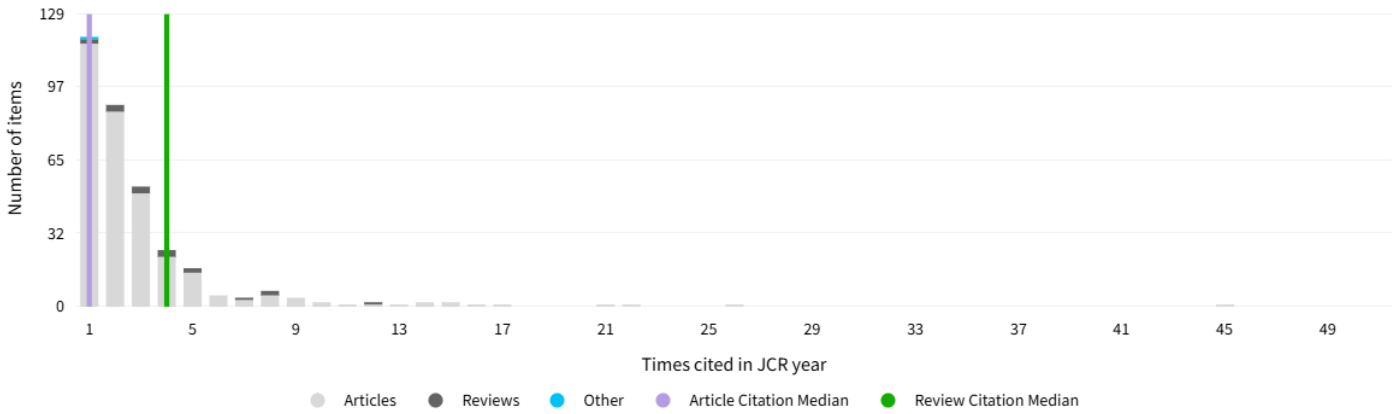
The total number of times that a journal has been cited by all journals included in the database in the JCR year. Citations to journals listed in JCR are compiled annually from the JCR years combined database, regardless of which JCR edition lists the journal.



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
1	4	40



0 times cited

ARTICLES	REVIEWS	OTHER
101	0	7

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
602

% OF CITABLE OA
1.00%

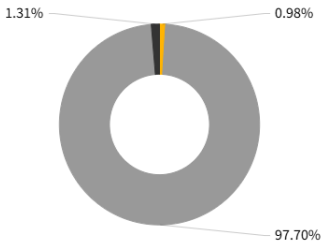
CITABLE

GOLD OPEN ACCESS
6 / 0.98%

SUBSCRIPTION OR BRONZE
596 / 97.70%

NON-CITABLE

OTHER (NON-CITABLE ITEMS)
8 / 1.31%



Citations*

TOTAL CITABLE
1,131

% OF CITABLE OA
0.71%

CITABLE

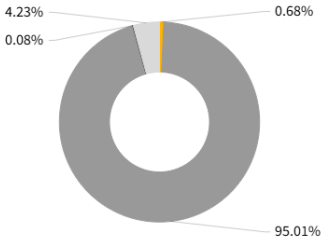
GOLD OPEN ACCESS
8 / 0.68%

SUBSCRIPTION OR BRONZE
1,123 / 95.01%

NON-CITABLE

OTHER (NON-CITABLE ITEMS)
1 / 0.08%

UNLINKED CITATIONS
50 / 4.23%



* 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, MULTIDISCIPLINARY

258/439

JCR YEAR	JIF RANK	QUARTILE	JIF PERCENTILE
2023	258/439	Q3	41.3

Rank by JIF before 2023 for MATERIALS SCIENCE, MULTIDISCIPLINARY

EDITION

Science Citation Index Expanded (SCIE)

JCR YEAR	JIF RANK	QUARTILE	JIF PERCENTILE
2022	228/344	Q3	33.9
2021	228/345	Q3	34.06
2020	226/334	Q3	32.49
2019	193/314	Q3	38.69
2018	204/293	Q3	30.55
2017	208/285	Q3	27.19
2016	158/275	Q3	42.73
2015	214/271	Q4	21.22
2014	213/260	Q4	18.27
2013	183/251	Q3	27.29
2012	191/241	Q4	20.95
2011	170/232	Q3	26.94
2010	182/225	Q4	19.33
2009	189/214	Q4	11.92
2008	160/192	Q4	16.93
2007	166/190	Q4	12.89
2006	130/176	Q3	26.42
2005	138/178	Q4	22.75
2004	170/177	Q4	4.24
2003	149/177	Q4	16.10
2002	154/173	Q4	11.27
2001	156/170	Q4	8.53

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, MULTIDISCIPLINARY

289/439

JCR YEAR	JCI RANK	QUARTILE	JCI PERCENTILE
2023	289/439	Q3	34.28
2022	271/424	Q3	36.20
2021	266/414	Q3	35.87
2020	234/384	Q3	39.19
2019	264/375	Q3	29.73
2018	287/361	Q4	20.64
2017	274/343	Q4	20.26

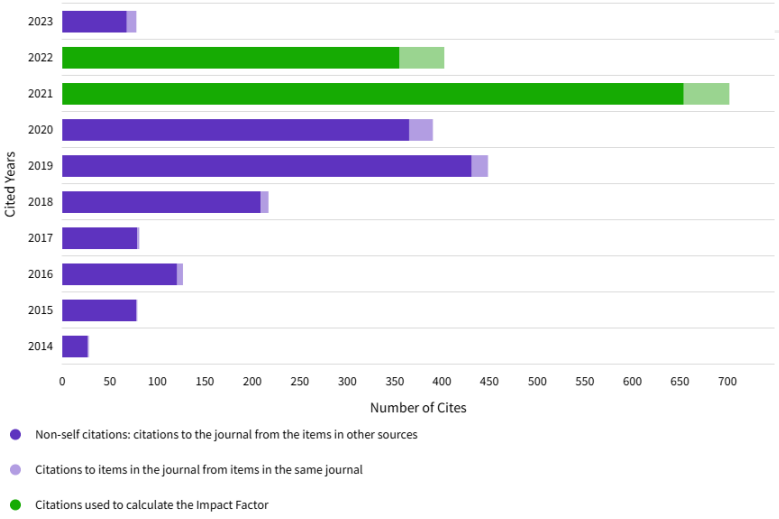
Citation network

Cited Half-life

N/A

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
15	14	1



# OF CITES FROM 2002	CUMULATIVE %	# OF CITING SOURCES
15 citations	**100.00%**	**9 sources**
1 citations	6.67%	1 sources
2 citations	20.00%	2 sources
7 citations	66.67%	5 sources
4 citations	93.33%	2 sources
0 citations	93.33%	0 sources
0 citations	93.33%	0 sources
0 citations	93.33%	0 sources
0 citations	93.33%	0 sources
0 citations	93.33%	0 sources
0 citations	93.33%	0 sources
Previous years: 1 citations		

Citing titles in all years

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-JOURNAL OF MA

	SOURCE NAME	COUNT
	All Others	0
1	PLASTICS RUBBER AND COMPOSITES	6
2	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART G-JOURNAL OF AE	2
3	COMPUTERS & STRUCTURES	1
4	CORROSION SCIENCE	1
5	INTERNATIONAL JOURNAL OF MODERN PHYSICS B	1
6	INT SAMPE TECHN CONF	1
7	JOURNAL OF FLUIDS AND STRUCTURES	1
8	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-JOURNAL OF MA	1
9	SCIENCE AND TECHNOLOGY OF WELDING AND JOINING	1

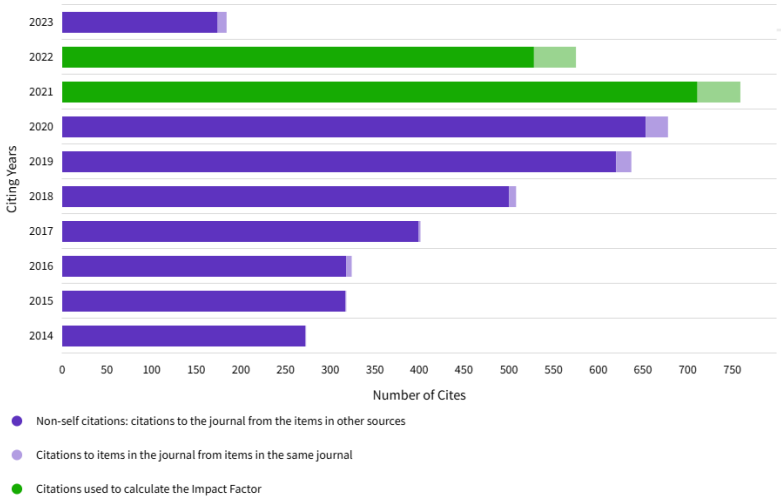
Showing 1 - 9 rows of 9 total (use export in the relevant section to download the full table)

Citing Half-life

7.4 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
466	466	N/A



# OF CITES FROM 2002	CUMULATIVE %	# OF CITED SOURCES
466 citations	**100.00%**	**286 sources**
2 citations	0.43%	2 sources
18 citations	4.29%	15 sources
39 citations	12.66%	35 sources
31 citations	19.31%	27 sources
56 citations	31.33%	49 sources
37 citations	39.27%	28 sources
41 citations	48.07%	35 sources
25 citations	53.43%	22 sources
18 citations	57.30%	17 sources
21 citations	61.80%	18 sources
Previous years: 178 citations		

Cited titles in all years

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-JOURNAL OF MA

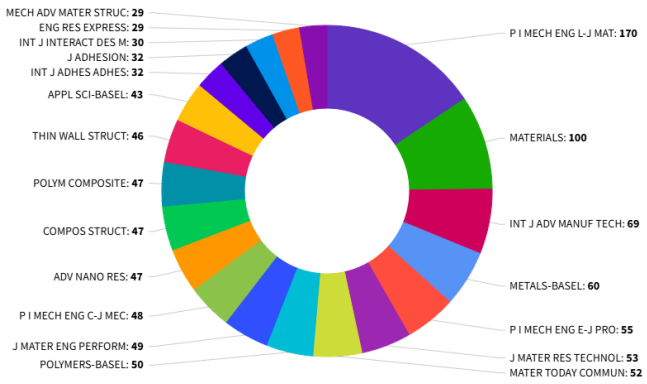
	SOURCE NAME	COUNT
	All Others	209
1	COMPOSITES SCIENCE AND TECHNOLOGY	11
2	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROST	10
3	JOURNAL OF APPLIED POLYMER SCIENCE	9
4	JOURNAL OF MATERIALS SCIENCE	9
5	TEXTILE RESEARCH JOURNAL	8
6	ACTA MATERIALIA	7
7	JOURNAL OF COMPOSITE MATERIALS	7
8	COMPOSITE STRUCTURES	6
9	FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES	6
10	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIAL	6
11	WEAR	6
12	COMPUTERS & STRUCTURES	5
13	INTERNATIONAL JOURNAL OF FATIGUE	5
14	JOURNAL OF APPLIED MECHANICS-TRANSACTIONS OF THE ASME	5
15	JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS	5
16	MATERIALS SCIENCE AND TECHNOLOGY	5
17	AIAA JOURNAL	4
18	JOURNAL OF ENGINEERING MECHANICS-ASCE	4
19	JSME INTERNATIONAL JOURNAL SERIES A-SOLID MECHANICS AND MATERIAL ENGINEERIN	4
20	POLYMER ENGINEERING AND SCIENCE	4

Showing 1 - 20 rows of 77 total (use export in the relevant section to download the full table)

Journal Citation Relationships

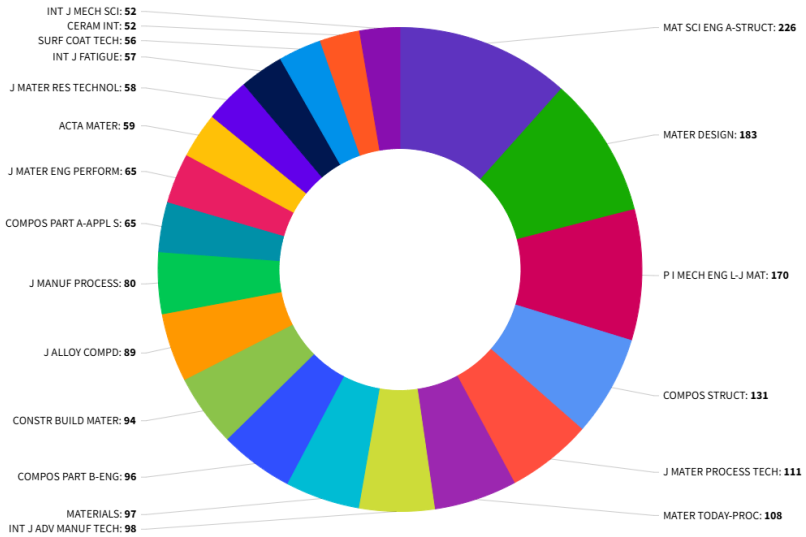
Cited Data

Top 20 journals citing P I MECH ENG L-J MAT by number of citations



Citing Data

Top 20 journals cited by P I MECH ENG L-J MAT 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

163 total citable items

	ARTICLES	REVIEWS	COMBINED (C)	OTHER DOCUMENT TYPES (O)	PERCENTAGE
NUMBER IN JCR YEAR 2023 (A)	158	5	163	0	100%
NUMBER OF REFERENCES (B)	6,359	518	6,877	0	100%
RATIO (B/A)	40.2	103.6	42.2	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

41.3

MATERIALS SCIENCE, MULTIDISCIPLINARY

41.3

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	NATIONAL INSTITUTE OF TECHNOLOGY (NIT SYSTEM)	70
2	INDIAN INSTITUTE OF TECHNOLOGY SYSTEM (IIT SYSTEM)	42
3	UNIVERSIDADE DO PORTO	26
4	ISLAMIC AZAD UNIVERSITY	22
-	VELLORE INSTITUTE OF TECHNOLOGY (VIT)	22
6	UNIVERSIDADE DE LISBOA	16
7	EGYPTIAN KNOWLEDGE BANK (EKB)	13
8	IRAN UNIVERSITY SCIENCE & TECHNOLOGY	12

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	INDIA	224
2	IRAN	92
3	CHINA MAINLAND	89
4	PORTUGAL	42
5	TURKIYE	38
6	GERMANY (FED REP GER)	29
7	ENGLAND	22
8	USA	19

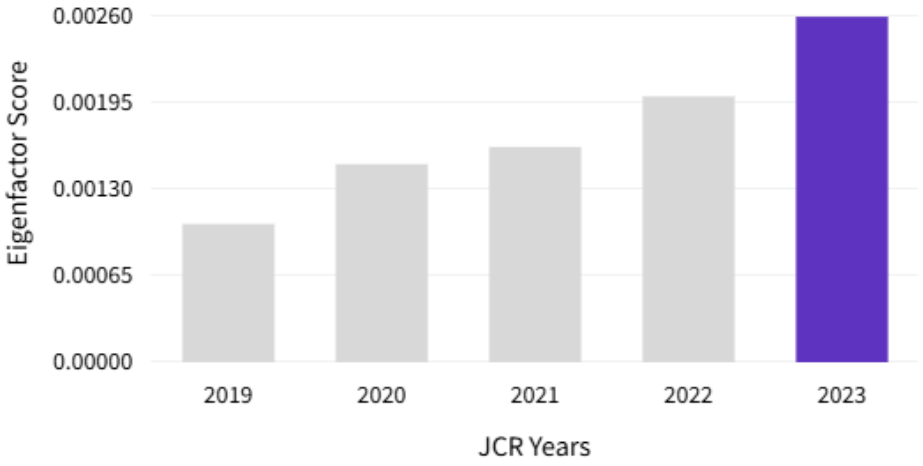
Showing 1 - 8 rows of 65 total (use export in the relevant section to download the full table)

Additional metrics

Eigenfactor score

0.00260

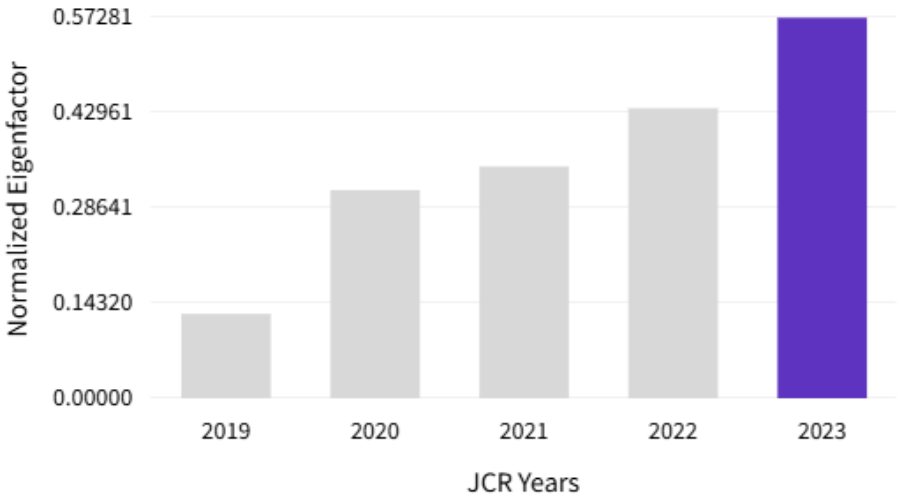
The Eigenfactor Score is a reflection of the density of the network of citations around the journal using 5 years of cited content as cited by the Current Year. It considers both the number of citations and the source of those citations, so that highly cited sources will influence the network more than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



Normalized Eigenfactor

0.57281

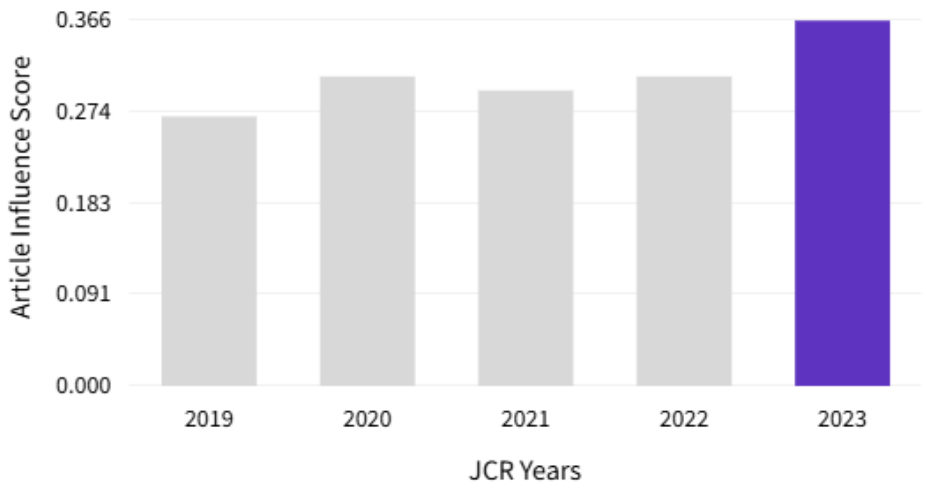
The Normalized Eigenfactor Score is the Eigenfactor score normalized, by rescaling the total number of journals in the JCR each year, so that the average journal has a score of 1. Journals can then be compared and influence measured by their score relative to 1. Learn more



Article influence score

0.366

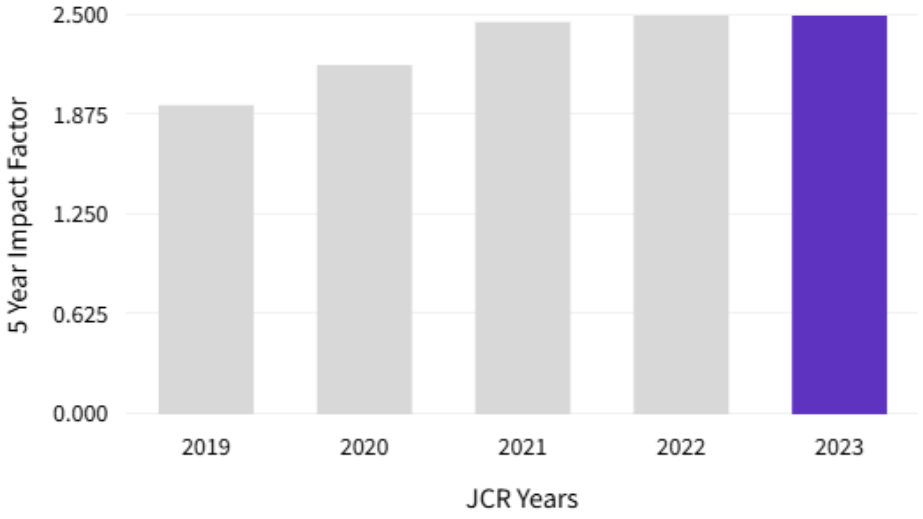
The Article Influence Score normalizes the Eigenfactor Score according to the cumulative size of the cited journal across the prior five years. The mean Article Influence Score for each article is 1.00. A score greater than 1.00 indicates that each article in the journal has above-average influence.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



5 year Impact Factor

2.5

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.



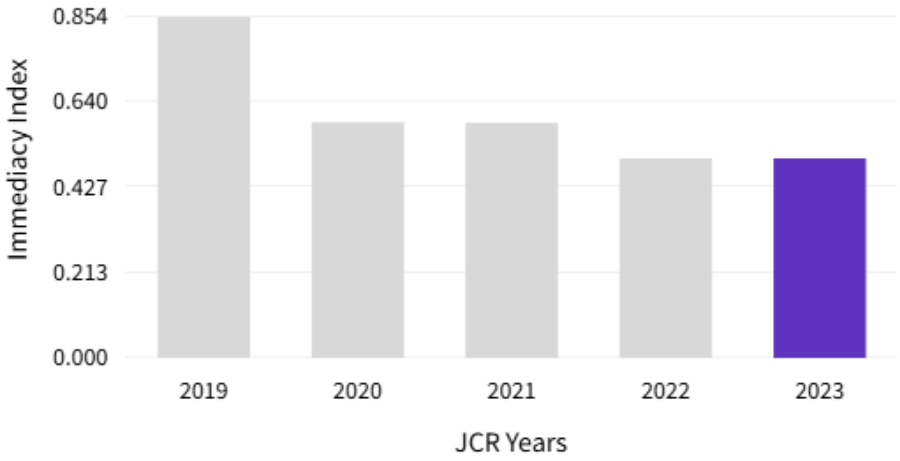
5 year Impact Factor calculation

$$\frac{\text{Citations in 2023 to items published in [2018-2022] (2,159)}}{\text{Number of citable items in [2018-2022] (860)}} = \frac{2{,}159}{860} = 2.5$$

Immediacy Index

0.5

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

$$\frac{\text{Cites in 2023 to items published in [2023]}}{\text{Number of citable items published in [2023]}} = \frac{78}{163} = 0.5$$

