♡ Favorite   ⬇ Export

JCR Year
2023 ▼

Metals

Open Access since 2011

ISSN
N/A

EISSN
2075-4701

JCR ABBREVIATION
METALS-BASEL

ISO ABBREVIATION
Metals

Journal information

EDITION
Science Citation Index Expanded (SCIE)

CATEGORY
METALLURGY & METALLURGICAL ENGINEERING

MATERIALS SCIENCE, MULTIDISCIPLINARY

LANGUAGES	**REGION**	**1ST ELECTRONIC JCR YEAR**
English	SWITZERLAND	2014

Publisher information

PUBLISHER	**ADDRESS**	**PUBLICATION FREQUENCY**
MDPI	ST ALBAN-ANLAGE 66, CH-4052 BASEL, SWITZERLAND	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
2.6
View calculation

JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS
2.2
View calculation

Journal Impact Factor contributing items   ⬇ Export
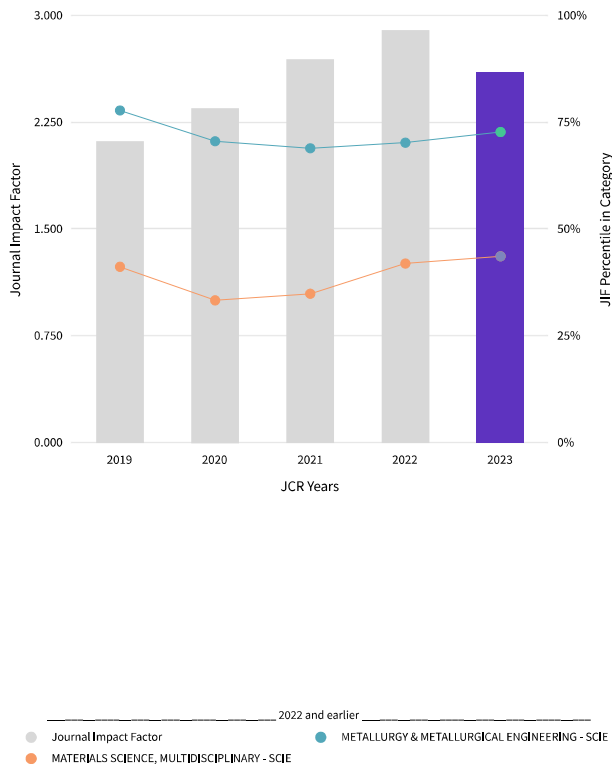
Citable items (4,160)   Citing Sources (1,208)

TITLE	CITATION COUNT

15

?

Journal Impact Factor Trend 2023   ⬇ Export

Journal Impact Factor (left axis) / JIF Percentile in Category (right axis) vs JCR Years

2022 and earlier
- ○ Journal Impact Factor
- ● METALLURGY & METALLURGICAL ENGINEERING - SCIE
- ● MATERIALS SCIENCE, MULTIDISCIPLINARY - SCIE

2023 and beyond
- ● METALLURGY & METALLURGICAL ENGINEERING
- ● MATERIALS SCIENCE, MULTIDISCIPLINARY

[View all years](#)

Title	Count	
Photocatalytic Applications of Metal Oxides for Sustainable Environmental…	69	⌄
Numerical Study on Welding Residual Stress Distribution of Corrugated Ste…	50	⌄
The Advancement of 7XXX Series Aluminum Alloys for Aircraft Structur…	45	⌄
Review of Powder Bed Fusion Additive Manufacturing for Metals	40	⌄
A Review on Material Extrusion Additive Manufacturing of Metal and How It…	36	⌄
First-Principles Study on the Adsorption Characteristics of Corrosive Species o…	33	⌄
An Overview of High-Entropy Alloys as Biomaterials	32	⌄
In Silico Contact Pressure of Metal-on-Metal Total Hip Implant with Different…	32	⌄
E-Waste Recycling and Resource Recovery: A Review on Technologies,…	29	⌄
Research Progress of Cryogenic Materials for Storage and…	28	⌄

[View All in Web of Science](#)

Journal Citation Indicator (JCI)   ⬇ Export

0.52

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.
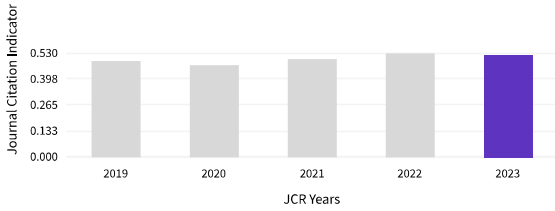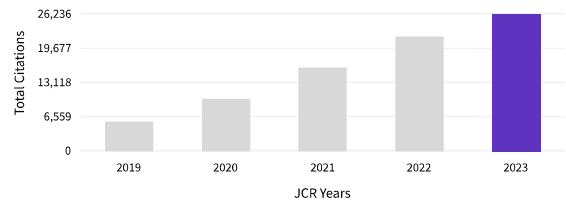
[Learn more](#)

Total Citations   ⬇ Export

26,236

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.

15

Citation distribution

⬇ **Export**

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

2

REVIEW CITATION MEDIAN

5

UNLINKED CITATIONS

228

Legend: ● Articles ● Reviews ● Other ● Article Citation Median ● Review Citation Median
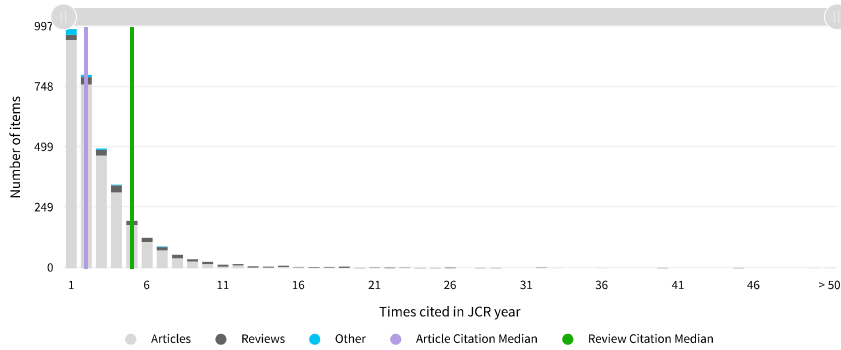
TIMES CITED

0

ARTICLES

941

REVIEWS

18

OTHER

53

Open Access (OA)

⬇ **Export**

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.
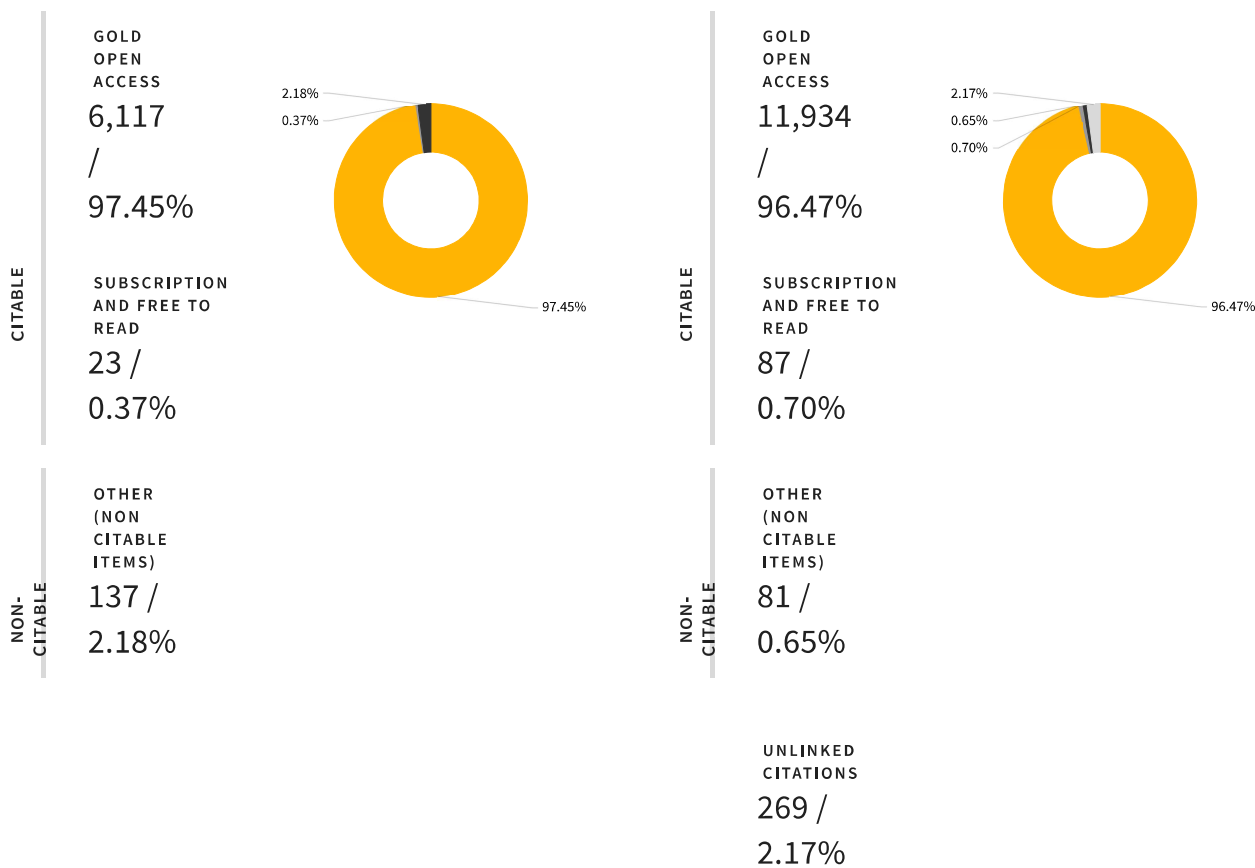Learn more

Items

TOTAL CITABLE	% OF CITABLE OA
6,140	99.63%

Citations*

TOTAL CITABLE	% OF CITABLE OA
12,021	99.28%

2.18%
0.37%

97.45%

2.17%
0.65%
0.70%

96.47%

*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

247/438

JCR YEAR	JIF RANK	JIF QUARTILE	JIF PERCENTILE	
2023	247/438	Q3	43.7	

Rank by JIF before 2023 for MATERIALS SCIENCE, MULTIDISCIPLINARY

EDITION
Science Citation Index Expanded (SCIE)

JCR YEAR	JIF RANK	JIF QUARTILE	JIF PERCENTILE	
2022	200/344	Q3	42.0	
2021	225/345	Q3	34.93	
2020	223/334	Q3	33.38	

CATEGORY

METALLURGY & METALLURGICAL ENGINEERING

25/90

JCR YEAR	JIF RANK	JIF QUARTILE	JIF PERCENTILE	
2023	25/90	Q2	72.8	

Rank by JIF before 2023 for METALLURGY & METALLURGICAL ENGINEERING

EDITION
Science Citation Index Expanded (SCIE)

JCR YEAR	JIF RANK	JIF QUARTILE	JIF PERCENTILE	
2022	24/79	Q2	70.3	
2021	25/79	Q2	68.99	
2020	24/80	Q2	70.63	

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
239/438

JCR YEAR	JCI RANK	JCI QUARTILE	JCI PERCENTILE	
2023	239/438	Q3	45.55	
2022	227/424	Q3	46.58	
2021	225/414	Q3	45.77	
2020	215/384	Q3	44.14	
2019	198/375	Q3	47.33	
2018	165/361	Q2	54.43	
2017	157/343	Q2	54.37	

CATEGORY
METALLURGY & METALLURGICAL ENGINEERING
31/91

JCR YEAR	JCI RANK	JCI QUARTILE	JCI PERCENTILE	
2023	31/91	Q2	66.48	
2022	27/91	Q2	70.88	
2021	27/91	Q2	70.88	
2020	33/90	Q2	63.89	
2019	30/89	Q2	66.85	
2018	25/88	Q2	72.16	

Citation network

Cited Half-life
3.1 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.

TOTAL NUMBER OF CITES

26,236

NON SELF-CITATIONS

22,965

SELF-CITATIONS

3,271

Cited Half-life Data

Citing Half-life
6.5 years

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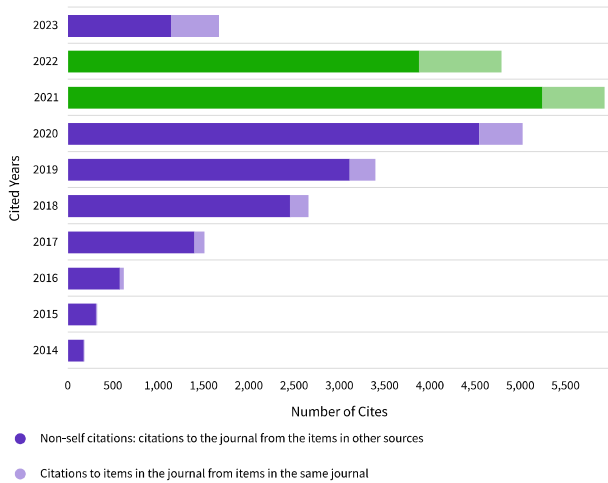
TOTAL NUMBER OF CITES

91,878

NON SELF-CITATIONS

88,607

SELF-CITATIONS

3,271

Citing Half-life Data

⬇ Export

CITED YEAR	# OF CITES FROM 2023	CUMULATIVE %	# OF CITING SOURCES
All years	**26,236 citations**	**100.00%**	**1,756 sources** ›
2023	1,657 citations	6.32%	317 sources ›
2022	4,790 citations	24.57%	753 sources ›
2021	5,924 citations	47.15%	943 sources ›
2020	5,019 citations	66.28%	853 sources ›
2019	3,393 citations	79.22%	654 sources ›
2018	2,657 citations	89.34%	606 sources ›
2017	1,503 citations	95.07%	444 sources ›
2016	617 citations	97.42%	258 sources ›
2015	320 citations	98.64%	190 sources ›
2014	179 citations	99.33%	106 sources ›

- 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

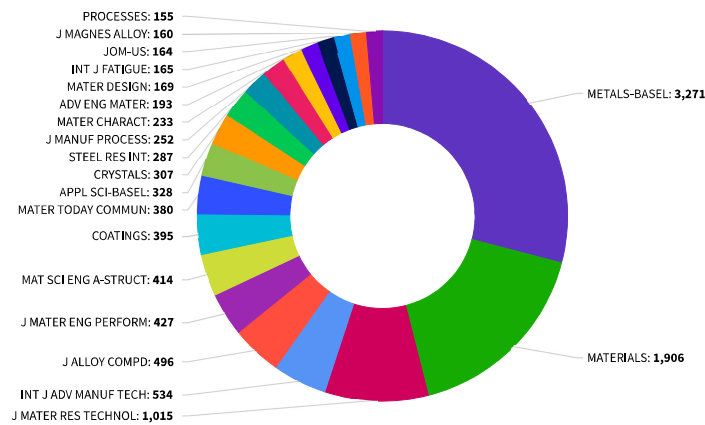# Journal Citation Relationships

Cited Data   Citing Data

Top 20 journals citing METALS-BASEL by number of citations

- PROCESSES: **155**
- J MAGNES ALLOY: **160**
- JOM-US: **164**
- INT J FATIGUE: **165**
- MATER DESIGN: **169**
- ADV ENG MATER: **193**
- MATER CHARACT: **233**
- J MANUF PROCESS: **252**
- STEEL RES INT: **287**
- CRYSTALS: **307**
- APPL SCI-BASEL: **328**
- MATER TODAY COMMUN: **380**
- COATINGS: **395**
- MAT SCI ENG A-STRUCT: **414**
- J MATER ENG PERFORM: **427**
- J ALLOY COMPD: **496**
- INT J ADV MANUF TECH: **534**
- J MATER RES TECHNOL: **1,015**
- METALS-BASEL: **3,271**
- MATERIALS: **1,906**

15

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

1,980 total citable items

	ARTICLES	REVIEWS	COMBINED(C)	OTHER DOCUMENT TYPES(O)	
NUMBER IN JCR YEAR 2023 (A)	1,835	145	1,980	43	98
NUMBER OF REFERENCES (B)	73,258	18,049	91,307	571	99
RATIO (B/A)	39.9	124.5	46.1	13.3	

Average JIF Percentile   ⬇ Export

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	METALLURGY & METALLURGICAL ENGINEERING
58.3	**72.8**
	MATERIALS SCIENCE, MULTIDISCIPLINARY
	43.7

Contributions by organizations   ⬇ Export

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 SCIENCE & TECHNOLOGY BEIJING	280	
2	RUSSIAN ACADEMY OF SCIENCES	266	
3	NORTHEASTERN UNIVERSITY - CHINA	171	
4	CHINESE ACADEMY OF SCIENCES	149	
5	CENTRAL SOUTH UNIVERSITY	116	

Contributions by country/region   ⬇ Export

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	2579	
2	Russia	609	
3	GERMANY (FED REP GER)	474	
4	South Korea	334	
5	USA	320	
6	Spain	275	
7	Italy	239	
8	Japan	195	
9	England	176	

# Additional metrics

Eigenfactor Score

0.02740

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
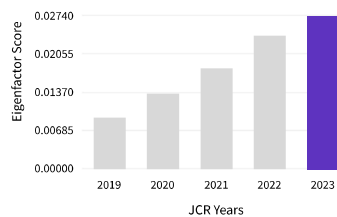
## Normalized Eigenfactor

5.98671

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
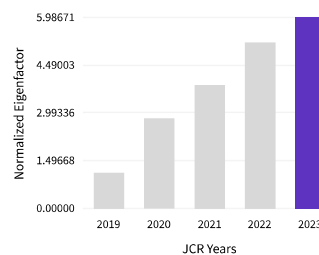
Article influence score

0.403

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
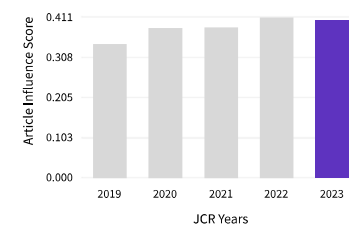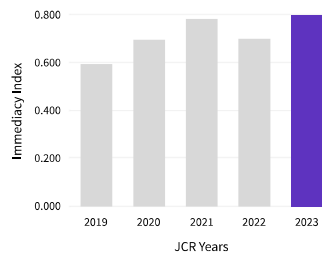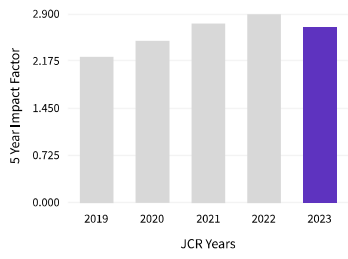

5 Year Impact Factor

2.7

View Calculation

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. Learn more

Immediacy Index

0.8

View Calculation

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

5 Year Impact Factor — JCR Years (2019, 2020, 2021, 2022, 2023)

Immediacy Index — JCR Years (2019, 2020, 2021, 2022, 2023)