2023 Journal Performance Data for: International Journal of Rail Transportation

ISSN
2324-8378

EISSN
2324-8386

JCR ABBREVIATION
INT J RAIL TRANSP

ISO ABBREVIATION
Int. J. Rail Transp.

Journal Information

EDITION
Science Citation Index Expanded (SCIE)

CATEGORY
TRANSPORTATION SCIENCE & TECHNOLOGY

LANGUAGES
English

REGION
ENGLAND

1ST ELECTRONIC JCR YEAR
2020

Publisher Information

PUBLISHER
TAYLOR & FRANCIS LTD

ADDRESS
2-4 PARK SQUARE, MILTON PARK, ABINGDON OR14 4RN, OXON, ENGLAND

PUBLICATION FREQUENCY
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
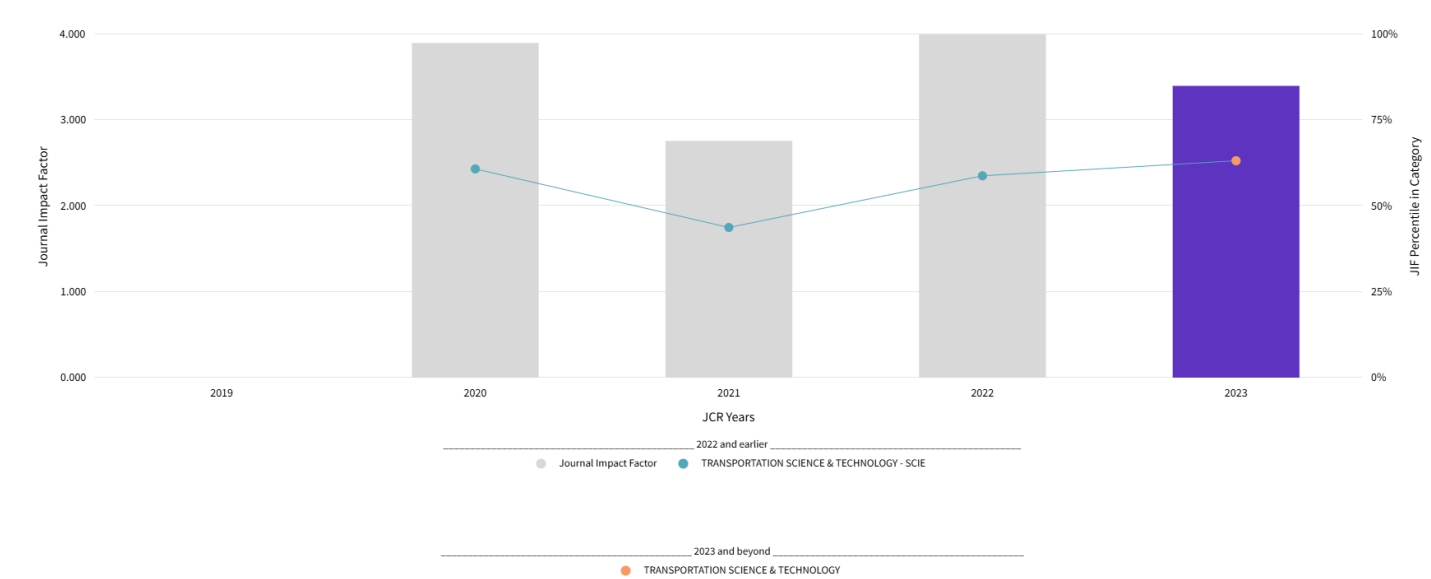
2023 JOURNAL IMPACT FACTOR

3.4

2023 JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS

3.1

Journal Impact Factor Trend 2023

Journal Impact Factor is calculated using the following metrics

$$\frac{\text{Citations in 2023 to items published in 2021 (177) - 2022 (141)}}{\text{Number of citable items in 2021 (39) + 2022 (55)}} = \frac{318}{94} = 3.4$$

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

$$\frac{\text{Citations in 2023 to items published in 2021 (177) + 2022 (141) - Self Citations in 2023 to items published in 2021 (18) + 2022 (9)}}{\text{Number of citable items in 2021 (39) + 2022 (55)}} = \frac{318 - 27}{94} = 3.1$$

Journal Impact Factor Contributing Items

Citable Items (94)

TITLE	CITATION COUNT
Freight train air brake models Authors: Wu, Qing;Zhelieznov, Kostiantyn;Mohammadi, Saeed;Serajian, Hossein;Schick, Bastian;Berg, Mats;Sharma, Rakesh Chandmal;Aboubakr, Ahmed;Sharma, Sunil Kumar;Melzi, Stefano; et al. Volume: 11 Accession number: WOS:000734245000001 Document Type: Article	25 🔓
A modified uniformly distributed heat source method for predicting braking temperature of railway brake disc Authors: Yuan, Zewang;Tian, Chun;Wu, Mengling;Wang, Guozhuang Volume: 10 Accession number: WOS:000617713400001 Document Type: Article	16
Prediction of track geometry degradation using artificial neural network: a case study Authors: Khajehei, Hamid;Ahmadi, Alireza;Soleimanmeigouni, Iman;Haddadzade, Mohammad;Nissen, Arne;Jebelli, Mohammad Javad Latifi Volume: 10 Accession number: WOS:000613707500001 Document Type: Article	15 🔓
Automatic clustering-based approach for train wheels condition monitoring Authors: Mosleh, Araliya;Meixedo, Andreia;Ribeiro, Diogo;Montenegro, Pedro;Calcada, Rui Volume: 11 Accession number: WOS:000821408700001 Document Type: Article	13
Ballast fouling inspection and quantification with ground penetrating radar (GPR) Authors: Guo, Yunlong;Liu, Guixian;Jing, Guoqing;Qu, Jianjun;Wang, Shilei;Qiang, Weile Volume: 11 Accession number: WOS:000781929400001 Document Type: Article	9 🔓

Showing 1-5 rows of 94 total (use export in the relevant section to download the full table)

# Journal Impact Factor Contributing Items

Citing Sources (124)

SOURCE NAME	COUNT
INTERNATIONAL JOURNAL OF RAIL TRANSPORTATION	27
APPLIED SCIENCES-BASEL	21
RAILWAY ENGINEERING SCIENCE	16
CONSTRUCTION AND BUILDING MATERIALS	14
VEHICLE SYSTEM DYNAMICS	14
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART F-JOURNAL OF RAIL AND RAPID TRANSIT	12
SENSORS	12
ENGINEERING FAILURE ANALYSIS	7
ENGINEERING STRUCTURES	6
INTERNATIONAL JOURNAL OF STRUCTURAL STABILITY AND DYNAMICS	6
WEAR	6
IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS	5
MEASUREMENT	5
SUSTAINABILITY	5
TRANSPORTATION GEOTECHNICS	5
MATHEMATICS	4
MECHANICAL SYSTEMS AND SIGNAL PROCESSING	4
PARTICUOLOGY	4
SCIENTIFIC REPORTS	4
TRIBOLOGY INTERNATIONAL	4

Showing 1-20 rows of 124 total (use export in the relevant section to download the full table)

Journal Citation Indicator (JCI)
0.68

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
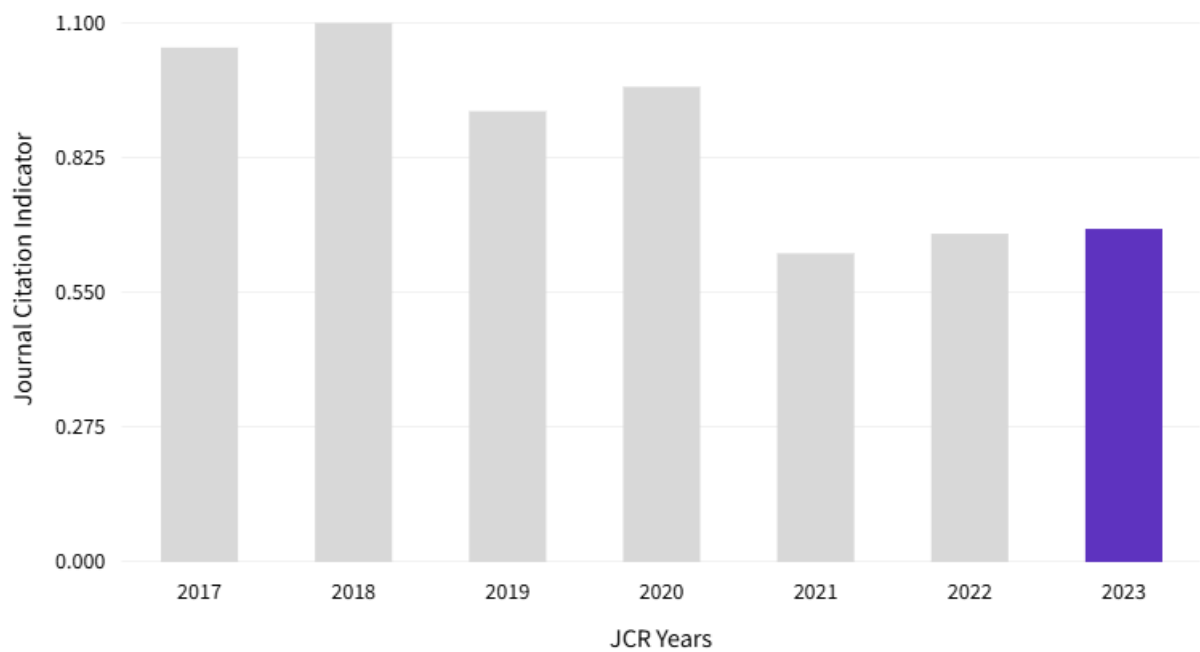
Total Citations

876

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.
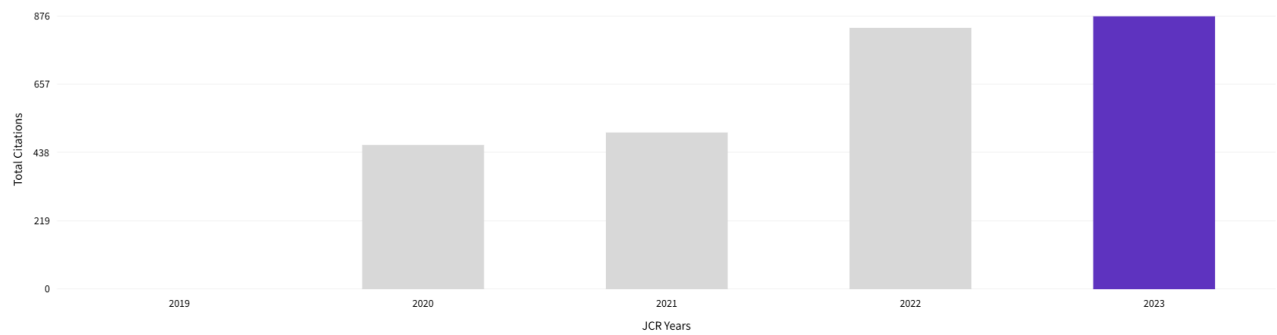
Citation Distribution

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
2	N/A	8
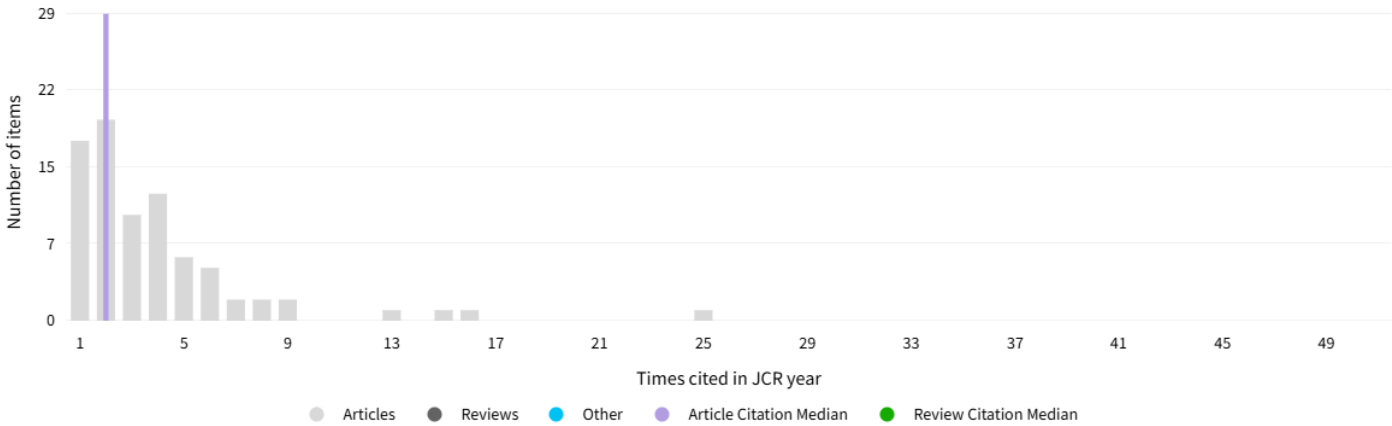
0 times cited

ARTICLES	REVIEWS	OTHER
15	0	0

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
136

% OF CITABLE OA
13.97%

CITABLE	NON-CITABLE
● GOLD OPEN ACCESS	● OTHER (NON-CITABLE ITEMS)
19 / 13.97%	0 / 0.00%
● SUBSCRIPTION OR BRONZE	
117 / 86.03%	

13.97%

86.03%
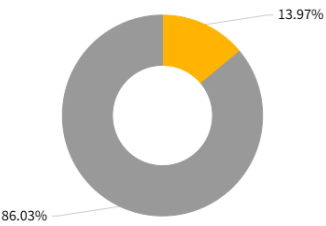
Citations*

TOTAL CITABLE
330

% OF CITABLE OA
26.06%

CITABLE	NON-CITABLE
● GOLD OPEN ACCESS	● OTHER (NON-CITABLE ITEMS)
86 / 25.37%	0 / 0.00%
● SUBSCRIPTION OR BRONZE	● UNLINKED CITATIONS
244 / 71.98%	9 / 2.65%

2.65%

25.37%

71.98%
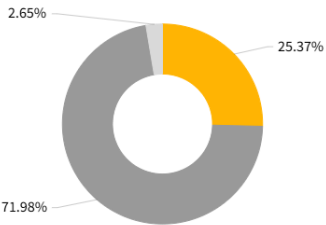
* Citations in 2023 to items published in (2021-2023)

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

TRANSPORTATION SCIENCE & TECHNOLOGY

27/72

JCR YEAR	JIF RANK	QUARTILE	JIF PERCENTILE	
2023	27/72	Q2	63.2	

Rank by JIF before 2023 for TRANSPORTATION SCIENCE & TECHNOLOGY

EDITION

Science Citation Index Expanded (SCIE)

JCR YEAR	JIF RANK	QUARTILE	JIF PERCENTILE	
2022	17/40	Q2	58.8	
2021	23/40	Q3	43.75	
2020	15/37	Q2	60.81	

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

TRANSPORTATION SCIENCE & TECHNOLOGY

28/72

JCR YEAR	JCI RANK	QUARTILE	JCI PERCENTILE	
2023	28/72	Q2	61.81	
2022	25/68	Q2	63.97	
2021	27/67	Q2	60.45	
2020	17/59	Q2	72.03	
2019	17/59	Q2	72.03	
2018	16/58	Q2	73.28	
2017	19/55	Q2	66.36	

Citation network

Cited Half-life

3.7 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
876	807	69

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

	# OF CITES FROM 2023	CUMULATIVE %	# OF CITING SOURCES
	876 citations	100.00%	235 sources
	21 citations	2.40%	16 sources
	141 citations	18.49%	70 sources
	177 citations	38.70%	84 sources
	140 citations	54.68%	84 sources
	67 citations	62.33%	45 sources
	66 citations	69.86%	42 sources
	41 citations	74.54%	27 sources
	29 citations	77.85%	25 sources
	60 citations	84.70%	44 sources
	47 citations	90.07%	34 sources

Previous years:
87 citations

Citing titles in all years

International Journal of Rail Transportation

	SOURCE NAME	COUNT
	All Others	122
1	International Journal of Rail Transportation	69
2	Applied Sciences-Basel	48
3	VEHICLE SYSTEM DYNAMICS	40
4	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART F-JOURNAL OF RAIL AND RAPID TRANSIT	36
5	Construction and Building Materials	29
6	Railway Engineering Science	27
7	Transportation Geotechnics	25
8	SENSORS	23
9	International Journal of Structural Stability and Dynamics	20
10	ENGINEERING STRUCTURES	19
11	Sustainability	14
12	Engineering Failure Analysis	13
13	Structures	13
14	JOURNAL OF WIND ENGINEERING AND INDUSTRIAL AERODYNAMICS	12
15	MEASUREMENT	11
16	WEAR	11
17	Journal of Zhejiang University-SCIENCE A	10
18	MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES	10
19	MECHANICAL SYSTEMS AND SIGNAL PROCESSING	10
20	Energies	9

Showing 1 - 20 rows of 113 total (use export in the relevant section to download the full table)

Citing Half-life

6.2 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
1,650	1,581	69

Citing Years (2014–2023), Number of Cites

- 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

# OF CITES FROM 2023	CUMULATIVE %	# OF CITED SOURCES
1,650 citations	100.00%	645 sources
37 citations	2.24%	31 sources
146 citations	11.09%	79 sources
179 citations	21.94%	96 sources
188 citations	33.33%	103 sources
144 citations	42.06%	87 sources
110 citations	48.73%	74 sources
107 citations	55.21%	67 sources
78 citations	59.94%	49 sources
77 citations	64.61%	51 sources
68 citations	68.73%	54 sources

Previous years: 516 citations

Cited titles in all years

International Journal of Rail Transportation
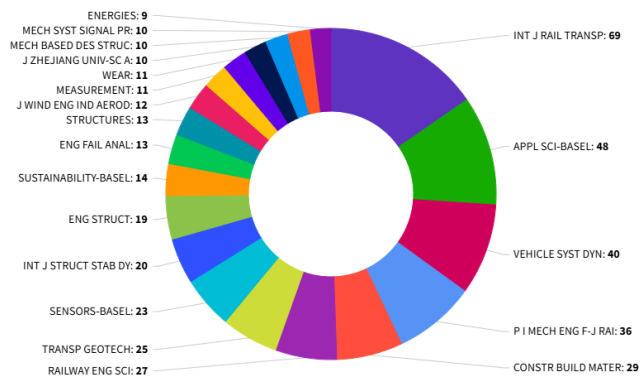
	SOURCE NAME	COUNT
	All Others	473
1	International Journal of Rail Transportation	69
2	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART F-JOURNAL OF RAIL AND RAPID TRANSIT	68
3	VEHICLE SYSTEM DYNAMICS	67
4	Construction and Building Materials	66
5	JOURNAL OF SOUND AND VIBRATION	38
6	Transportation Geotechnics	29
7	WEAR	27
8	Engineering Failure Analysis	26
9	Railway Engineering Science	25
10	SOIL DYNAMICS AND EARTHQUAKE ENGINEERING	25
11	JOURNAL OF WIND ENGINEERING AND INDUSTRIAL AERODYNAMICS	24
12	MECHANICAL SYSTEMS AND SIGNAL PROCESSING	22
13	ENGINEERING STRUCTURES	21
14	TRANSPORTATION RESEARCH PART C-EMERGING TECHNOLOGIES	21
15	TRANSPORTATION RESEARCH PART B-METHODOLOGICAL	20
16	INTERNATIONAL JOURNAL OF CRASHWORTHINESS	15
17	IEEE Transactions on Transportation Electrification	13
18	SHOCK AND VIBRATION	13
19	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS	12
20	Tribology International	12

Showing 1 - 20 rows of 172 total (use export in the relevant section to download the full table)
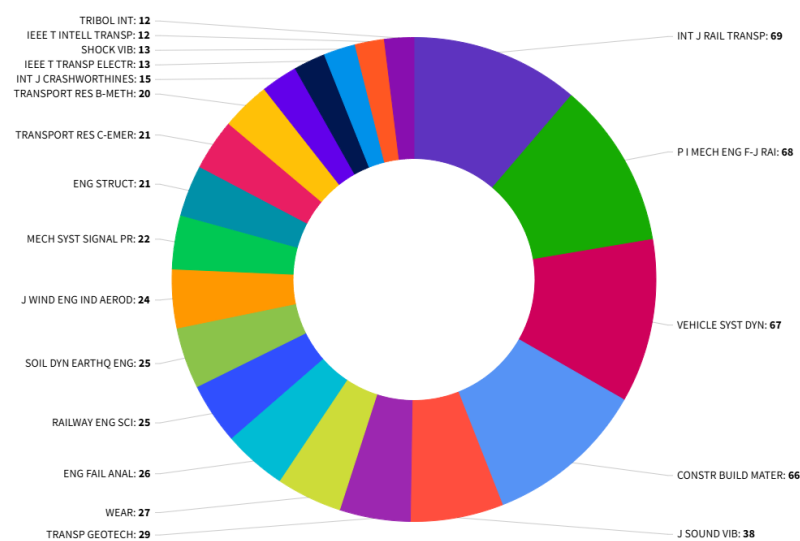
Journal Citation Relationships

Cited Data

Top 20 journals citing INT J RAIL TRANSP by number of citations

Legend (clockwise from top):

- ENERGIES: **9**
- MECH SYST SIGNAL PR: **10**
- MECH BASED DES STRUC: **10**
- J ZHEJIANG UNIV-SC A: **10**
- WEAR: **11**
- MEASUREMENT: **11**
- J WIND ENG IND AEROD: **12**
- STRUCTURES: **13**
- ENG FAIL ANAL: **13**
- SUSTAINABILITY-BASEL: **14**
- ENG STRUCT: **19**
- INT J STRUCT STAB DY: **20**
- SENSORS-BASEL: **23**
- TRANSP GEOTECH: **25**
- RAILWAY ENG SCI: **27**
- INT J RAIL TRANSP: **69**
- APPL SCI-BASEL: **48**
- VEHICLE SYST DYN: **40**
- P I MECH ENG F-J RAI: **36**
- CONSTR BUILD MATER: **29**

Citing Data

Top 20 journals cited by INT J RAIL TRANSP by number of citations

TRIBOL INT: **12**
IEEE T INTELL TRANSP: **12**
SHOCK VIB: **13**
IEEE T TRANSP ELECTR: **13**
INT J CRASHWORTHINES: **15**
TRANSPORT RES B-METH: **20**
TRANSPORT RES C-EMER: **21**
ENG STRUCT: **21**
MECH SYST SIGNAL PR: **22**
J WIND ENG IND AEROD: **24**
SOIL DYN EARTHQ ENG: **25**
RAILWAY ENG SCI: **25**
ENG FAIL ANAL: **26**
WEAR: **27**
TRANSP GEOTECH: **29**

INT J RAIL TRANSP: **69**
P I MECH ENG F-J RAI: **68**
VEHICLE SYST DYN: **67**
CONSTR BUILD MATER: **66**
J SOUND VIB: **38**

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

42 total citable items

	ARTICLES	REVIEWS	COMBINED (C)	OTHER DOCUMENT TYPES (O)	PERCENTAGE
NUMBER IN JCR YEAR 2023 (A)	41	1	42	0	100%
NUMBER OF REFERENCES (B)	1,513	137	1,650	0	100%
RATIO (B/A)	36.9	137.0	39.3	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

63.2

TRANSPORTATION SCIENCE & TECHNOLOGY

63.2

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	SOUTHWEST JIAOTONG UNIVERSITY	48	
2	BEIJING JIAOTONG UNIVERSITY	14	
3	CENTRAL SOUTH UNIVERSITY	10	
4	TONGJI UNIVERSITY	9	
5	DELFT UNIVERSITY OF TECHNOLOGY	8	
6	CRRC CORPORATION	7	
7	CHALMERS UNIVERSITY OF TECHNOLOGY	6	
8	CENTRAL QUEENSLAND UNIVERSITY	5	

Showing 1 - 8 rows of 160 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	90	
2	AUSTRALIA	11	
3	SWEDEN	10	
-	USA	10	
5	NETHERLANDS	8	
6	ENGLAND	6	
7	ITALY	5	
-	SOUTH KOREA	5	

Showing 1 - 8 rows of 30 total (use export in the relevant section to download the full table)

Additional metrics
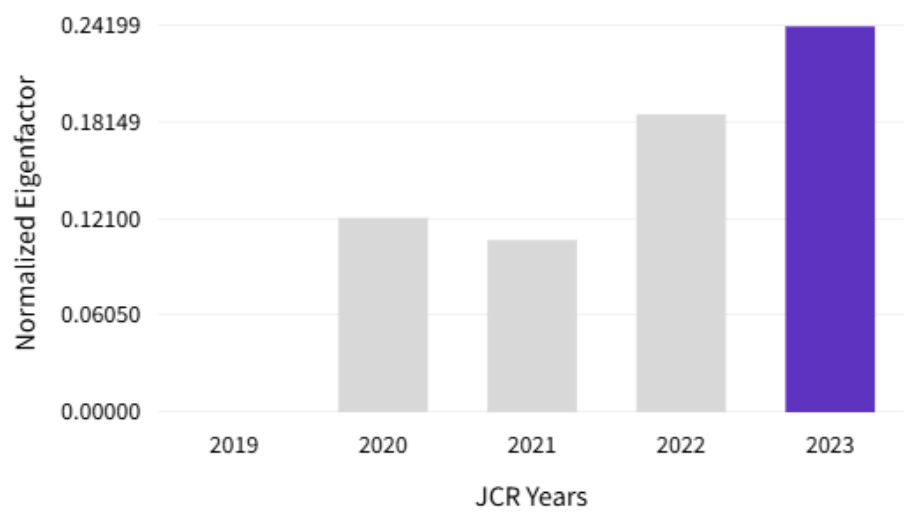
Eigenfactor score

0.00110

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
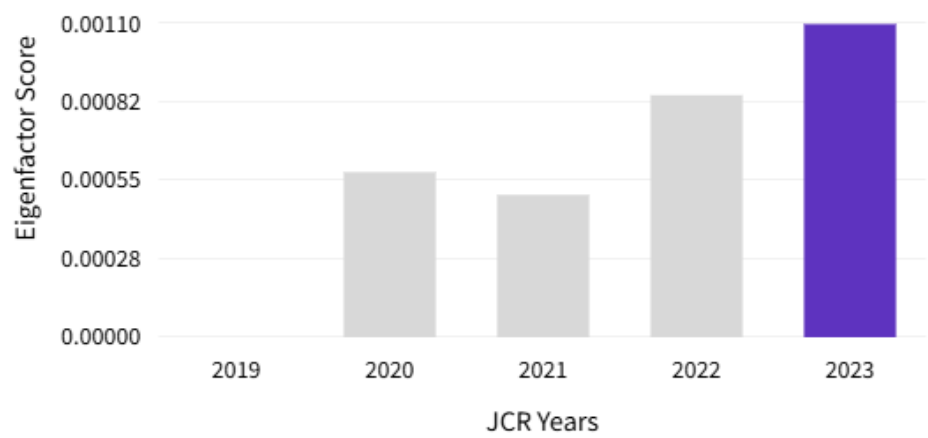
## Normalized Eigenfactor

0.24199

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
0.802

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
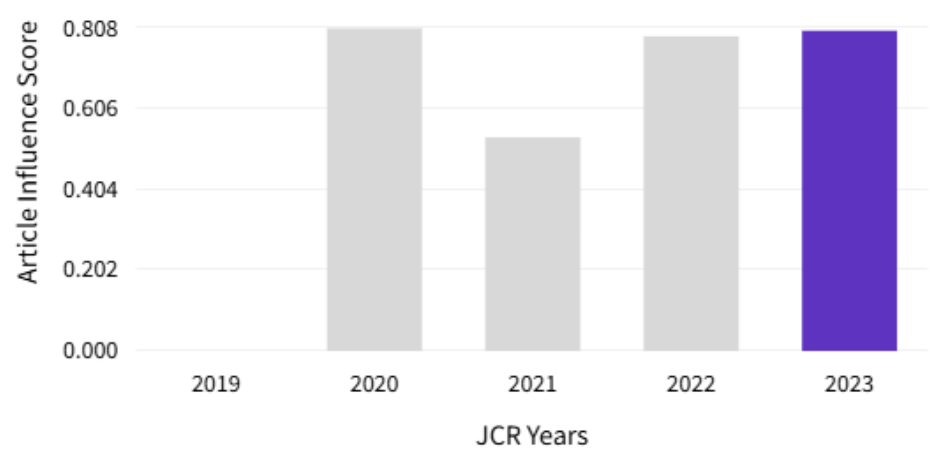
5 year Impact Factor

3.6

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.
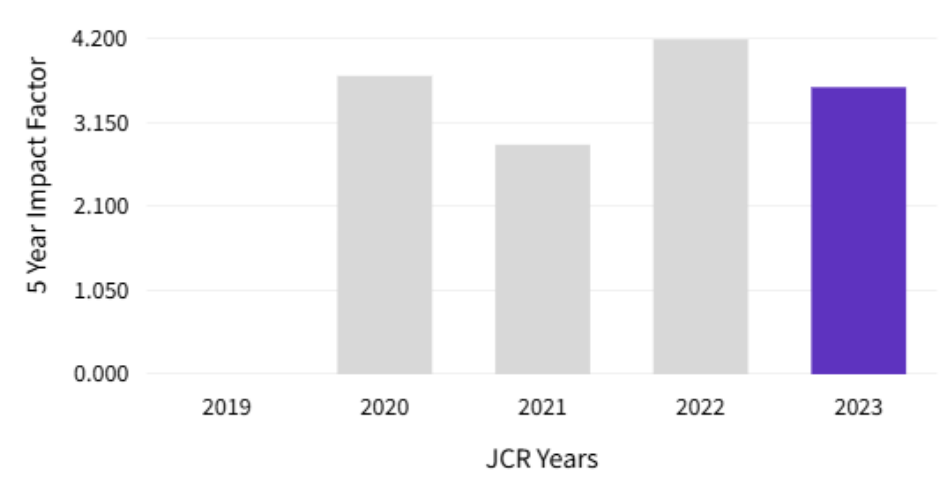

5 year Impact Factor calculation

$$\frac{\text{Citations in 2023 to items published in } [2018\text{-}2022] \ (591)}{\text{Number of citable items in } [2018\text{-}2022] \ (166)} = \frac{591}{166} = 3.6$$

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
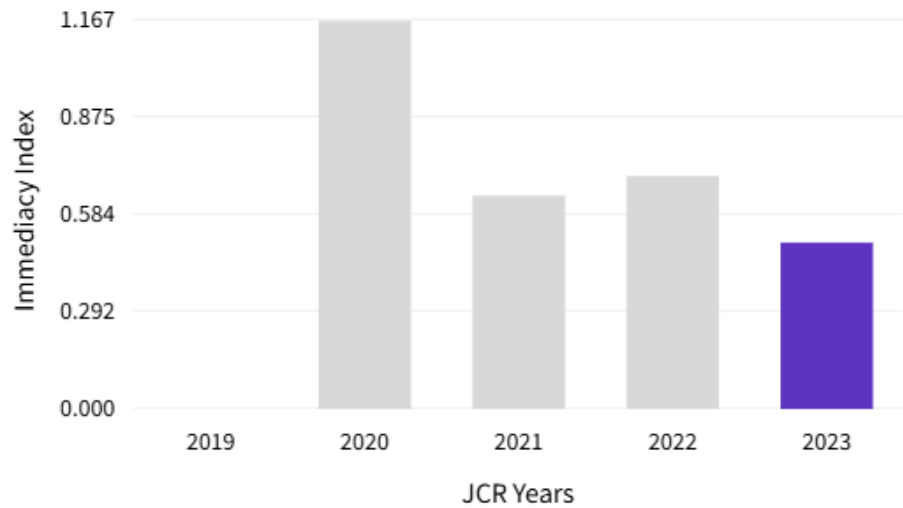
Immediacy Index calculation

Cites in 2023 to items published in [2023]		21		
———————————————————	=	————	=	0.5
Number of citable items published in [2023]		42		