**Journals** 

Categories

**Publishers** 

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Home > Journal profile **JCR YEAR** 

2021



# INTERNATIONAL **JOURNAL OF HEAT AND MASS TRANSFEF**

ISSN

0017-9310

EISSN

1879-2189

JCR ABBREVIATION

INT J HEAT MASS TRAN

ISO ABBREVIATION

Int. J. Heat Mass Transf.

#### Journal information

EDITION

Science Citation Index Expanded (SCIE)

CATEGORY

ENGINEERING, **MECHANICAL - SCIE** 

THERMODYNAMICS - SCIE

**MECHANICS - SCIE** 

Multi-Language

LANGUAGES REGION

> **ENGLAND** 1997

**Publisher information** 

**PUBLISHER** 

**ADDRESS** 

**PUBLICATION FREQUENCY** 

13 issues/year

1ST ELECTRONIC JCR YEAR

PERGAMON-**ELSEVIER** SCIENCE LTD THE BOULEVARD, LANGFORD LANE, KIDLINGTON,

**OXFORD OX5** 1GB, ENGLAND

# 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

**2021 JOURNAL IMPACT FACTOR** 

View calculation

CITATIONS 5.431 4.699

View calculation

JOURNAL IMPACT FACTOR WITHOUT SELF

Journal Impact Factor contributing items

Export

Citable items (3,361)

Citing Sources (1,243)

CITATION COUNT

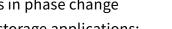
TITLE

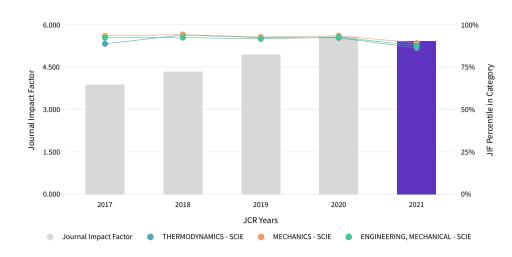
180

Journal Impact Factor Trend 2021

**±** Export

Recent developments in phase change materials for energy storage applications:...





View all years

A critical review on heat transfer augmentation of phase change materials	71	~
Review of pool boiling enhancement by surface modification	71	~
Numerical analysis of different fin structures in phase change material mod	66	~
Pool boiling heat transfer to CuO-H2O nanofluid on finned surfaces	61	~
Unsteady flow and heat transfer past a stretching/shrinking sheet in a hybrid	55	~
Natural convective flow and heat transfer of Nano-Encapsulated Phase Change Materi	54	~
Hybrid heat transfer enhancement for latent-heat thermal energy storage syste	52	~
A fractal study for the effective electrolyte diffusion through charged porous media	49	~
Thermal management of electronic devices using pin-fin based cascade	49	<b>~</b>

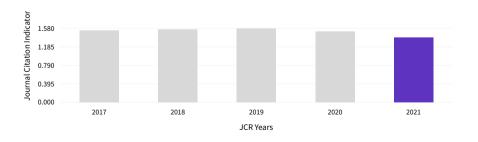
View All in Web of Science

# Journal Citation Indicator (JCI)

#### **±** Export

#### 1.39

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

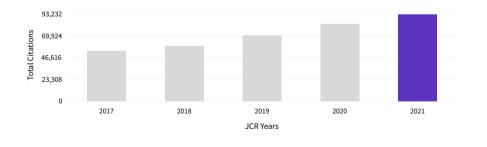


#### **Total Citations**

#### **±** Export

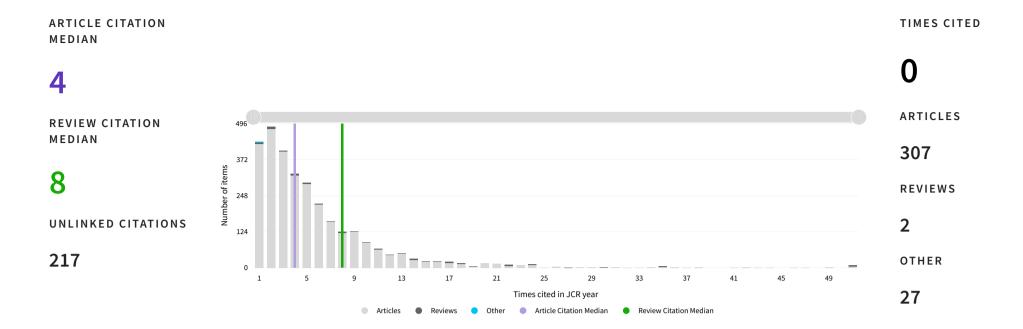
## 93,232

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.



View all years

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. <u>Learn more</u>



# 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. For example, in the 2020 JCR data, released in June 2021, the Open Access (OA) data show the publication model (Gold OA or subscription) of materials published in 2018, 2019 and 2020, and citations in 2020 to these items. This three-year set of published items is used to provide descriptive analysis of the content and community of the journal. Learn more

#### **Items**

4,777 % of citable oa 2.70%

# GOLD OPEN ACCESS 129 / 2.68% SUBSCRIPTION AND FREE TO

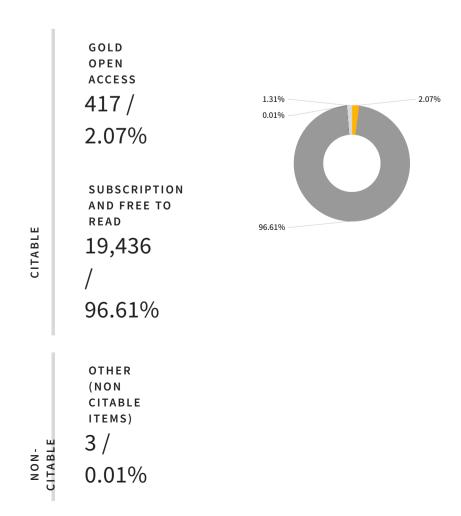
96.51%



4,648 /

## Citations\*

19,853 % OF CITABLE OA 2.10%



UNLINKED CITATIONS 263 / 1.31%

\*Citations in 2021 to items published in [2019 - 2021]

## 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. Data for the most recent year is presented at the top of the list, with other years shown in reverse chronological order. <u>Learn more</u>

Science Citation Index Expanded (SCIE)

CATEGORY

ENGINEERING, MECHANICAL

17/137

Science Citation Index Expanded (SCIE)
CATEGORY
MECHANICS

**15/138** 

JCR YEAR	JIF RANK	JIF QUARTILE	JIF PERCENTILE		JCR YEAR	JIF RANK	JIF QUARTILE	JIF PERCENTILE	
2021	17/137	Q1	87.96		2021	15/138	Q1	89.49	
2020	10/133	Q1	92.86		2020	9/135	Q1	93.70	
2019	11/130	Q1	91.92		2019	10/136	Q1	93.01	
2018	10/129	Q1	92.64		2018	8/134	Q1	94.40	
2017	10/128	Q1	92.58		2017	9/134	Q1	93.66	



# 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. <u>Learn more</u>

ENGINEERING, MECHANICAL 10/177				MECHANICS 11/163					
JCR YEAR	JCI RANK	JCI QUARTILE	JCI PERCENTIL	E	JCR YEAR	JCI RANK	JCI QUARTILE	JCI PERCENTILE	
2021	10/177	Q1	94.63		2021	11/163	Q1	93.56	
2020	10/166	Q1	94.28		2020	9/156	Q1	94.55	
2019	7/166	Q1	96.08		2019	7/156	Q1	95.83	
2018	7/163	Q1	96.01		2018	7/154	Q1	95.78	
2017	8/159	Q1	95.28		2017	8/154	Q1	95.13	



# **Citation network**

#### Cited Half-life

# 6.5 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

93,232

NON SELF-CITATIONS

82,863

SELF-CITATIONS

10,369

Cited Half-life Data

# Citing Half-life

# 8.4 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

65,071

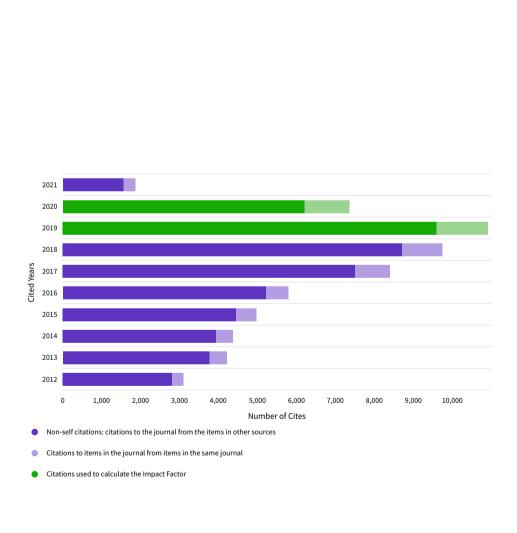
NON SELF-CITATIONS

54,702

SELF-CITATIONS

10,369

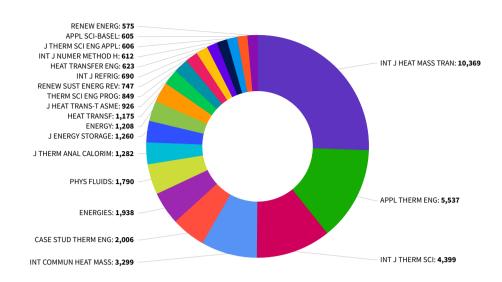
Citing Half-life Data



CITED YEAR	# OF CITES FROM 2021	CUMULATIVE %	# OF CITING SOURCES
All years	93,232 citations	100.00%	2,335 sources >
2021	1,864 citations	2.00%	385 sources >
2020	7,353 citations	9.89%	829 sources >
2019	10,902 citations	21.58%	999 sources >
2018	9,738 citations	32.02%	979 sources >
2017	8,395 citations	41.03%	983 sources >
2016	5,786 citations	47.23%	799 sources >
2015	4,963 citations	52.56%	751 sources >
2014	4,369 citations	57.24%	691 sources >
2013	4,212 citations	61.76%	664 sources >
2012	3,087 citations	65.07%	600 sources >
Older	32,563 citations		

**±** Export

Top 20 journals citing INT J HEAT MASS TRAN 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. <u>Learn more</u>

### 1,416 total citable items

	ARTICLES	REVIEWS	COMBINED(C)	OTHER DOCUMENT TYPES(O)	1 PER
NUMBER IN JCR YEAR 2021 (A)	1,387	29	1,416	9	99%
NUMBER OF REFERENCES (B)	60,908	4,152	65,060	11	100%
RATIO (B/A)	43.9	143.2	45.9	1.2	

# 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. <u>Learn more</u>

ALL CATEGORIES AVERAGE

87.99

EDITION
Science Citation
Index Expanded

ENGINEERING, MECHANICAL 87.96

THERMODYNAMICS

86.51

MECHANICS

Countries or Regions that have contributed the most papers to

the journal in the most recent three-year period. Learn more

89.49

# Contributions by organizations



# Contributions by country/region

**±** Export

Organizations that have contributed the most papers to the journal in the most recent three-year period. <u>Learn more</u>

RANK	ORGANIZATION	COUNT	RANK	COUNTRY / REGION	COUNT
1	XI'AN JIAOTONG UNIVERSITY	242	1	CHINA MAINLAND	2162
2	SHANGHAI JIAO TONG UNIVERSITY	162	2	USA	875
3	CHINESE ACADEMY OF SCIENCES	143	3	South Korea	376
			4	Japan	242
4	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	126	5	India	205
	(CNRS)		6	England	186
5	INDIAN INSTITUTE OF TECHNOLOGY	123	7	France	185
	SYSTEM (IIT SYSTEM)		-	Iran	185
6	TSINGHUA	120	9	GERMANY (FED	168

# Additional metrics

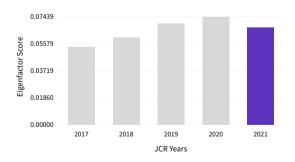
<u>+</u>

### Eigenfactor Score

#### 0.06702

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.

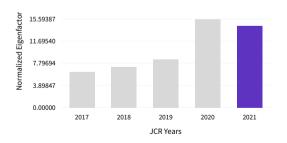
#### Learn more



# Normalized Eigenfactor

#### 14.40825

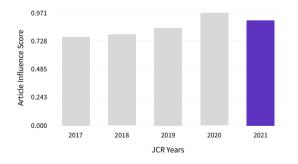
The Normalized Eigenfactor Score is the Eigenfactor score normalized, by rescaling the total number of journals in the JCR each year, so that the average journal has a score of 1. Journals can then be compared and influence measured by their score relative to 1. Learn more



# Article influence score

#### 0.909

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** 

5.428

**View Calculation** 

**Immediacy** Index

1.316

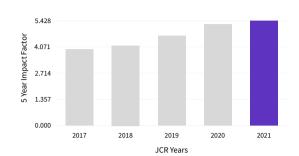
**View Calculation** 

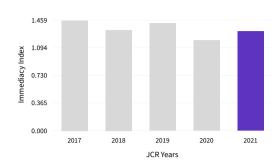


<u>+</u>

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.

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





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