

2020 Journal Performance Data for: Journal of Aerospace Information Systems

TITLE CHANGES

In 2013

J AEROS COMP INF COM changed to J AEROSP INFORM SYST

J AEROSP INFORM SYST changed from J AEROS COMP INF COM

ISSN

N/A

EISSN

2327-3097

JCR ABBREVIATION

J AEROSP INFORM SYST

ISO ABBREVIATION

J. Aerosp. Inf. Syst.

Journal Information

EDITION

Science Citation Index
Expanded (SCIE)

CATEGORY

ENGINEERING, AEROSPACE -
SCIE

LANGUAGES

English

REGION

USA

1ST ELECTRONIC JCR YEAR

2013

Publisher Information

PUBLISHER

AMER INST AERONAUTICS
ASTRONAUTICS

ADDRESS

1801 ALEXANDER BELL DRIVE,
STE 500, RESTON, VA
22091-4344

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.

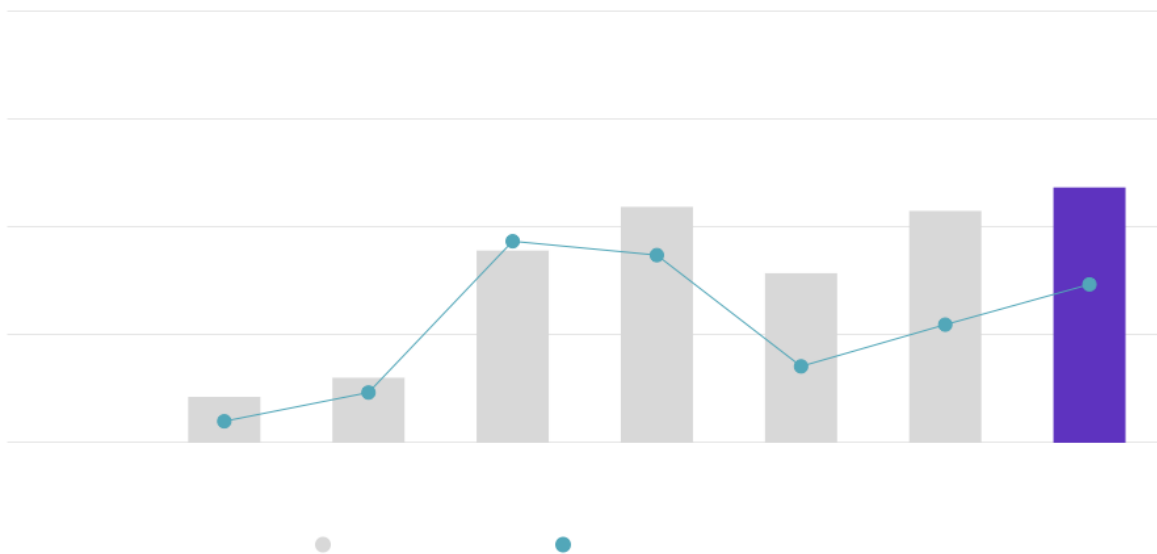
2020 JOURNAL IMPACT FACTOR

1.185

2020 JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS

0.989

Journal Impact Factor Trend 2020



Journal Impact Factor is calculated using the following metrics

$$\frac{\text{Citations in 2020 to items published in 2018 (73) - 2019 (36)}}{\text{Number of citable items in 2018 (48) + 2019 (44)}} = \frac{109}{92} = 1.185$$

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

$$\frac{\text{Citations in 2020 to items published in 2018 (73) + 2019 (36) - Self Citations in 2020 to items published in 2018 (11) + 2019 (7)}}{\text{Number of citable items in 2018 (48) + 2019 (44)}} = \frac{109 - 18}{92} = 0.989$$

Journal Impact Factor Contributing Items

Citable Items (92)

TITLE	CITATION COUNT
High-Performance Embedded Computing in Space: Evaluation of Platforms for Vision-Based Navigation Authors: Lentaris, George;Furano, Gianluca;Maragos, Konstantinos;Stratakos, Ioannis;Papadopoulos, Lazaros;Papanikolaou, Odysseas;Soudris, Dimitrios;Lourakis, Manolis;Zabulis, Xenophon;Gonzalez-Arjona, David Volume: 15 Accession number: WOS:000430000900001 Document Type: Article	12
Satellite Formation-Containment Flying Control with Collision Avoidance Authors: Chen, Liangming;Guo, Yanning;Li, Chuanjiang;Huang, Jing Volume: 15 Accession number: WOS:000431166800002 Document Type: Article	5
Optimization-Based Scheduling Method for Agile Earth-Observing Satellite Constellation Authors: Cho, Doo-Hyun;Kim, Jun-Hong;Choi, Han-Lim;Ahn, Jaemyung Volume: 15 Accession number: WOS:000449043600001 Document Type: Article	5
Flight Guardian: Autonomous Flight Safety Improvement by Monitoring Aircraft Cockpit Instruments Authors: Khan, Wasiq;Ansell, Darren;Kuru, Kaya;Bilal, Muhammad Volume: 15 Accession number: WOS:000430000900003 Document Type: Article	5
Anomaly Detection in General-Aviation Operations Using Energy Metrics and Flight-Data Records Authors: Puranik, Tejas G.;Mavris, Dimitri N. Volume: 15 Accession number: WOS:000431165700003 Document Type: Article	5

Showing 1-5 rows of 92 total (use export in the relevant section to download the full table)

Journal Impact Factor Contributing Items

Citing Sources (65)

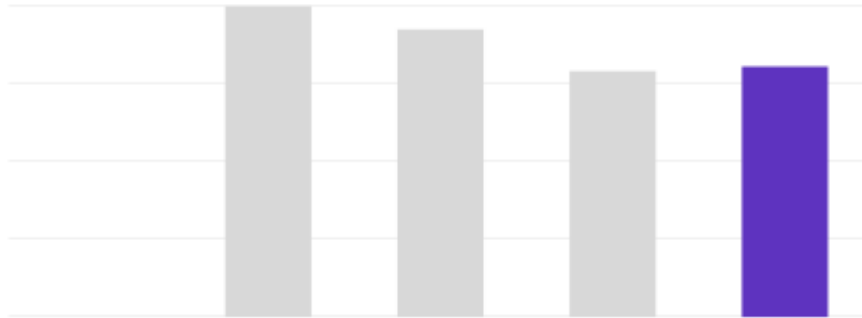
SOURCE NAME	COUNT
JOURNAL OF AEROSPACE INFORMATION SYSTEMS	18
IEEE ACCESS	9
AEROSPACE	6
SENSORS	3
APPLIED SCIENCES-BASEL	3
INTERNATIONAL JOURNAL OF AERONAUTICAL AND SPACE SCIENCES	2
JOURNAL OF THE ASTRONAUTICAL SCIENCES	2
IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS	2
TRANSPORTATION RESEARCH PART C-EMERGING TECHNOLOGIES	2
IEEE TRANSACTIONS ON NUCLEAR SCIENCE	2
JOURNAL OF SYSTEMS ENGINEERING AND ELECTRONICS	2
2020 INTERNATIONAL CONFERENCE ON UNMANNED AIRCRAFT SYSTEMS (ICUAS'20)	2
2020 AMERICAN CONTROL CONFERENCE (ACC)	2
REMOTE SENSING	2
ELECTRONICS	2
INTERNATIONAL JOURNAL OF GEOGRAPHICAL INFORMATION SCIENCE	1
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS	1
IEEE ROBOTICS AND AUTOMATION LETTERS	1
ADVANCES IN SPACE RESEARCH	1
JOURNAL OF SUPERCOMPUTING	1

Showing 1-20 rows of 65 total (use export in the relevant section to download the full table)

Journal Citation Indicator (JCI)

0.54

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.



Total Citations

383

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.

ARTICLE CITATION MEDIAN

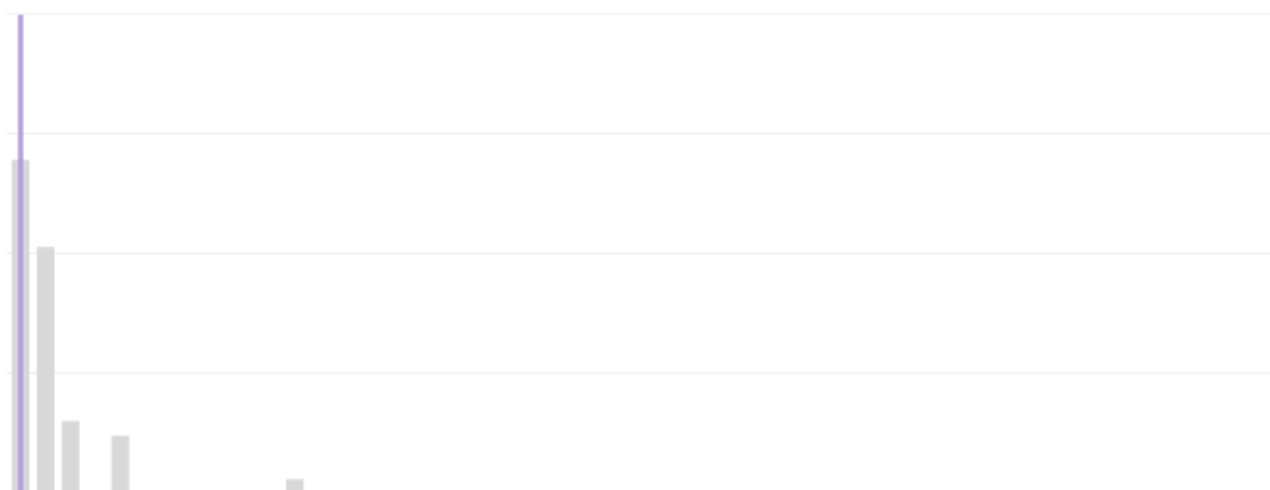
1

REVIEW CITATION MEDIAN

n/a

UNLINKED CITATIONS

5



0 times cited

ARTICLES

42

REVIEWS

0

OTHER

4

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. 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.

Items

TOTAL CITABLE

147

% OF CITABLE OA

17.01%

CITABLE

● GOLD OPEN ACCESS

25 / 16.13%

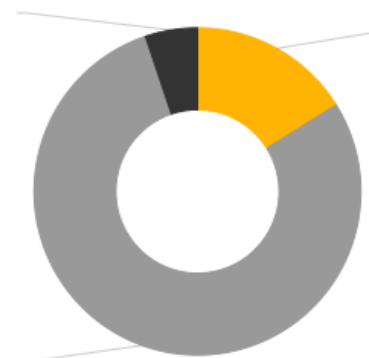
NON-CITABLE

● OTHER (NON-CITABLE ITEMS)

8 / 5.16%

● SUBSCRIPTION OR BRONZE

122 / 78.71%



Citations*

TOTAL CITABLE

116

% OF CITABLE OA

18.97%

CITABLE

● GOLD OPEN ACCESS

22 / 18.03%

NON-CITABLE

● OTHER (NON-CITABLE ITEMS)

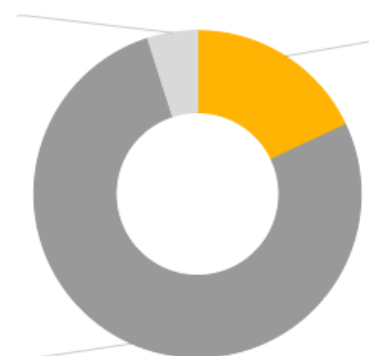
0 / 0.00%

● SUBSCRIPTION OR BRONZE

94 / 77.05%

● UNLINKED CITATIONS

6 / 4.92%



* Citations in 2020 to items published in (2018-2020)

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.









EDITION

Science Citation Index Expanded (SCIE)

CATEGORY

ENGINEERING, AEROSPACE

22/34

JCR YEAR	JIF RANK	QUARTILE	JIF PERCENTILE	
2020	22/34	Q3	36.76	
2019	23/31	Q3	27.42	
2018	26/31	Q4	17.74	
2017	18/31	Q3	43.55	
2016	17/31	Q3	46.77	
2015	27/30	Q4	11.67	
2014	29/30	Q4	5.00	
2013	28/28	Q4	n/a	

Rank by Journal Citation Indicator (JCI)




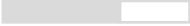
Journals within a category are sorted in descending order by Journal Citation Indicator (JCI) resulting in the Category Ranking below. A separate rank is shown for each category in which the journal is listed in JCR. Data for the most recent year is presented at the top of the list, with other years shown in reverse chronological order.

Only journals which have a calculated JCI value are included in the JCI ranking. The total number of journals displayed in this ranking may be less than the category overall.

CATEGORY

ENGINEERING, AEROSPACE

23/48

JCR YEAR	JCI RANK	QUARTILE	JCI PERCENTILE	
2020	23/48	Q2	53.13	
2019	23/48	Q2	53.13	
2018	22/48	Q2	55.21	
2017	18/47	Q2	62.77	

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.

55 total citable items

	ARTICLES	REVIEWS	COMBINED (C)	OTHER DOCUMENT TYPES (O)	PERCENTAGE
NUMBER IN JCR YEAR 2020 (A)	55	0	55	4	93%
NUMBER OF REFERENCES (B)	2,059	0	2,059	2	100%
RATIO (B/A)	37.4	n/a	37.4	0.5	

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.

ALL CATEGORIES AVERAGE

36.76

EDITION









Science Citation Index Expanded

ENGINEERING, AEROSPACE

36.76

Contributions by organizations









Organizations that have contributed the most papers to the journal in the most recent three-year period.

RANK	ORGANIZATION	COUNT	
1	NATIONAL AERONAUTICS & SPACE ADMINISTRATION (NASA)	9	
-	PURDUE UNIVERSITY SYSTEM	9	
3	KOREA ADVANCED INSTITUTE OF SCIENCE & TECHNOLOGY (KAIST)	8	
4	UNITED STATES DEPARTMENT OF DEFENSE	7	
-	UNIVERSITY OF COLORADO SYSTEM	7	
-	UNIVERSITY SYSTEM OF GEORGIA	7	
7	PENNSYLVANIA COMMONWEALTH SYSTEM OF HIGHER EDUCATION (PCSHE)	6	
8	EMBRY-RIDDLE AERONAUTICAL UNIVERSITY	5	

Showing 1 - 8 rows of 167 total (use export in the relevant section to download the full table)

Contributions by country/region

Organizations that have contributed the most papers to the journal in the most recent three-year period.

RANK	COUNTRY/REGION	COUNT	
1	USA	92	
2	CHINA MAINLAND	16	
3	South Korea	12	
4	India	9	
5	Canada	8	
6	GERMANY (FED REP GER)	7	
7	Netherlands	5	
8	England	3	

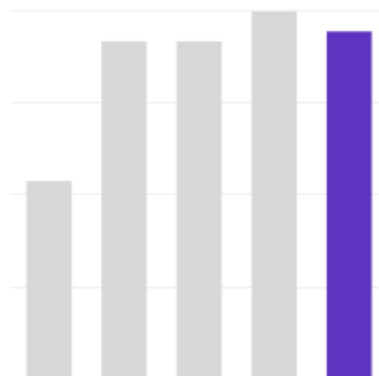
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Additional metrics

Eigenfactor score

0.00070

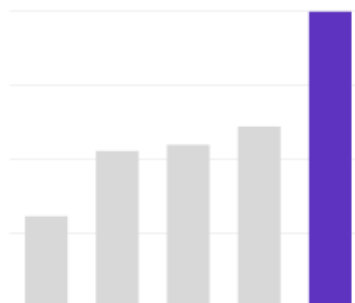
The Eigenfactor Score is a reflection of the density of the network of citations around the journal using 5 years of cited content as cited by the Current Year. It considers both the number of citations and the source of those citations, so that highly cited sources will influence the network more than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



Normalized Eigenfactor

0.14880

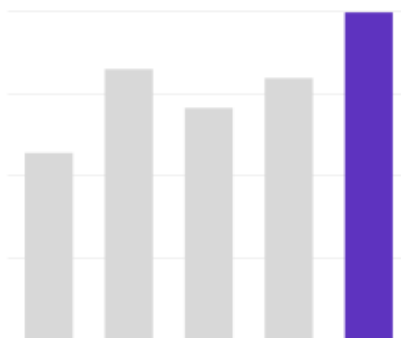
The Normalized Eigenfactor Score is the Eigenfactor score normalized, by rescaling the total number of journals in the JCR each year, so that the average journal has a score of 1. Journals can then be compared and influence measured by their score relative to 1.



Article influence score

0.329

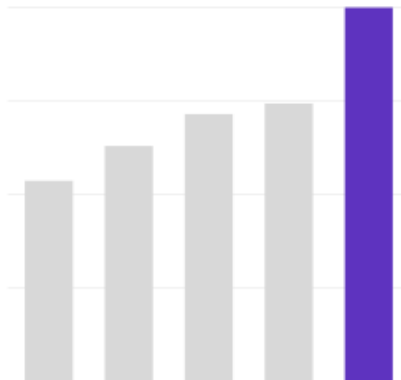
The Article Influence Score normalizes the Eigenfactor Score according to the cumulative size of the cited journal across the prior five years. The mean Article Influence Score for each article is 1.00. A score greater than 1.00 indicates that each article in the journal has above-average influence.



5 year Impact Factor

1.410

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.



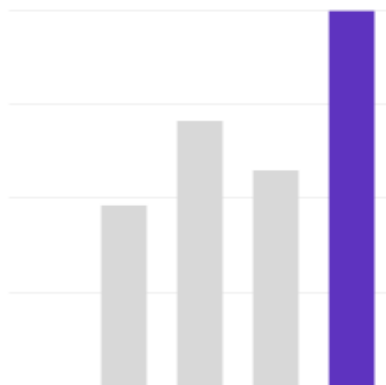
5 year Impact Factor calculation

Citations in 2020 to items published in [2015-2019] (296)	=	$\frac{296}{210}$	=	1.410
Number of citable items in [2015-2019] (210)				

Immediacy Index

0.236

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.



Immediacy Index calculation

Cites in 2020 to items published in 2020	13	
<hr/>		13 / 55 = 0.236
Number of items published in 2020	55	